

**SEMANTIC QUERY TRANSLATION FOR
QURAN CONTENT RETRIEVAL**

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ABSTRACT

Existing Quran retrieval system suffers from low precision and recall mainly due to the query technique used particularly in cross language retrieval (CLIR). As query technique is one of the indicator for Quran retrieval information performance in CLIR, in order to improve the retrieval, query technique could be enhanced using combination of semantic, stemming and translation techniques. The main purpose of the study is to automate the retrieval process of Quranic verses across multilingual context (Malay, English, Arabic). The specific objectives of the study are i) to develop algorithm of query expansion based on stemming, semantic and translation query in cross language Quranic retrieval, ii) to develop a prototype of cross language Quranic retrieval system for Malay, English and Arabic based on Stemmed Semantic Translated Query (StSTQ), iii) to evaluate the performance of the prototype system of the cross language Quranic retrieval. This research introduced the conflated methods which contain query translation, lexical semantic technique and stemming algorithm. The appropriate stemming approach applies to the process of translated query and lexical semantic to retrieve relevant results. Procedures involving conflated techniques of query expansion in cross language information retrieval were formed. Experiments on Malay, Arabic and English collection pertaining to Quran content were conducted. The retrieval performance of the Quran retrieval system was evaluated. In the first stage, QR translates the words into the required languages and looks up their synonyms and stemmed synonyms to expand the single query with relevant stemmed synonyms. By having the expanded query, QR presents the required and relevant results in SpaceTree visualization to display each word with its relevant results in a proper manner. This study involved important tests to improve the single translated 36 queries in linking them to the matched relevant synonyms and stemmed synonyms. The query expansion through semantic technique generates the necessary and comprehensive Quran

information and three principal empirical experiments were conducted for retrieving relevant verses from the Quran text in Malay, Arabic and English. The experiments consisted of StSTQ (Stemmed and Translated Semantic Query), StTQ (Stemmed Translated Query) and STQ (Semantic Translated Query) for English, Arabic and Malay. In the analysis of English verses collection, StSTQ has indicated an average precision percentage of 77.52% (in keyword, K) and 84.12% (in Queryword, Q) and while average recall percentage of 97.83% (K) and 96.19% (Q) respectively. For the Arabic verses collection, StSTQ has shown an average precision percentage of 80.03% (K) and 85.84% (Q) while the average recall percentage is 95.24% (K) and 96.94% (Q) respectively. For the Malay verses collection, StSTQ results in average precision percentage of 80.96% (K) and 85.26% (Q) while average recall percentage is 98.68% (K) and 97.27% (Q) respectively. The significance of the study is to develop QR system that improves the CLIR performance and evaluation based on the better query expansion technique.

ABSTRAK

Sistem capaian semula al-Qur'an yang sedia ada menghadapi masalah untuk mendapatkan carian yang tepat disebabkan teknik pertanyaan yang digunakan di dalam capaian semula maklumat bahasa silang (CLIR). Oleh kerana teknik pertanyaan merupakan salah satu petunjuk dalam menentukan prestasi capaian semula al-Qur'an dalam CLIR usaha untuk memperbaiki capaian semula ayat-ayat al-Quran dengan lebih tepat boleh ditingkatkan dengan menggunakan gabungan teknik pertanyaan dan teknik-teknik semantik, pengakaran dan terjemahan. Tujuan utama kajian ini adalah untuk mengautomasikan proses mendapatkan semula ayat-ayat al-Quran dalam konteks berbilang bahasa (Melayu, Bahasa Inggeris, Bahasa Arab). Objektif khusus kajian ini adalah i) untuk membangunkan algoritma pengembangan pertanyaan berdasarkan pengakaran semantik dan terjemahan pertanyaan dalam bahasa silang semula Quran, ii) untuk membangunkan prototaip bahasa silang diperolehi semula Quran untuk Melayu, Bahasa Inggeris dan Bahasa Arab berdasarkan Pertanyaan yang diterjemahkan, disama-ertikan dan terakar (StSTQ), iii) untuk menilai prestasi sistem prototaip daripada mendapatkan semula bahasa silang Quran. Kajian ini memperkenalkan kaedah yang tergabung mengandungi terjemahan pertanyaan, teknik semantik berkamus dan algoritma pengakaran. Pendekatan pengakaran perkataan sesuai dilaksanakan kepada proses pertanyaan diterjemahkan dan semantik berkamus untuk mendapatkan hasil yang berkaitan. Langkah-langkah yang melibatkan teknik-teknik yang tergabung bagi pengembangan pertanyaan dalam bahasa silang dapatan semula maklumat telah dibangunkan. Penyiasatan-penyiasatan keatas penyimpanan maklumat dalam berbahasa Melayu, Arab dan Inggeris yang berkaitan dengan kandungan al-Qur'an telah dijalankan. Pencapaian perolehan terhadap sistem perolehan maklumat semula yang berbilang bahasa pun telah dinilai. Pada peringkat pertama, kaedah penterjemah menterjemah perkataan ke dalam bahasa yang diperlukan dan mencari perkataan-

perkataan sinonim untuk mengembangkan pertanyaan asal. Dengan mempunyai pertanyaan yang diperluaskan, QR membentangkan senarai pertanyaan - pertanyaan yang diperlukan dalam visualisasi SpaceTree untuk memaparkan setiap perkataan dengan keputusan yang berkaitan dengan cara yang betul. Oleh itu, kajian ini menjalankan ujian-ujian yang penting untuk memperbaiki 36 pertanyaan yang diterjemahkan dan dipadankan dengan sinonim yang bersesuaian. Oleh itu, teknik semantik dalam gabungan kaedah – kaedah menyumbang maklumat yang diperlukan dan menyeluruh al-Qur'an di mana penyelidikan menjalankan tiga eksperimen yang penting untuk koleksi Melayu, Arab dan Inggeris sebagai menganggap teks al-Qur'an. Eksperimen terdiri daripada SSTQ (Pertanyaan Semantik yang diterjemahkan untuk diakarkan dan dokumen yang diakarkan), SQ (Pertanyaan diakarkan) dan STQ (Pertanyaan Semantik) untuk Inggeris, Arab dan Melayu. Analisis menyatakan bahawa SSTQ dalam purata peratusan Ketepatan (Precision) untuk koleksi Inggeris mempunyai 77.52 (dalam perkataan demi perkataan, K) dan 84.12 (keseluruhan perkataan, Q) manakala purata peratusan Perolehan (Recall) masing-masing mempunyai 97.83 (K) dan 96.19 (Q). SSTQ juga menyatakan purata peratusan Ketepatan (Precision) dalam koleksi Arab mempunyai 80.03 (K) dan 85.84 (Q) manakala purata peratusan Perolehan (Recall) masing-masing mempunyai 95.24 (K) dan 96.94 (Q). Akhirnya, SSTQ juga menyatakan purata peratusan Ketepatan (Precision) dalam koleksi Melayu mempunyai 80.96 (K) dan 85.26 (Q) manakala purata peratusan Perolehan (Recall) pula masing-masing mempunyai 98.68 (K) dan 97.27 (Q). Kepentingan kajian ini adalah untuk membangunkan sistem capaian semula al-Quran (QR) yang dapat memperbaiki pencapaian prestasi CLIR dan penilaian berdasarkan teknik pengembangan pertanyaan yang lebih baik.

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LIST OF ABBREVIATIONS

StSTQ	Stemmed Semantic Translated Query and Stemmed Document
StTQ	Stemmed Translated Query
STQ	Semantic Translated Query
TRE	Total of Relevant Ayats/Verses (Benchmark)
TRR	Total of Matched Relevant Ayats in Results Retrieval
TRT	Total of Results Retrieval
K	Keyword (Word by Word Process)
Q	Query (Phrase Process)
CLIR	Cross Language Information Retrieval
MLIR	Multilingual Information Retrieval
IR	Information Retrieval
QR	Quran Retrieval

1.0 INTRODUCTION

1.1 Overview

This chapter discusses the importance of retrieving relevant Quran verses using semantic query expansion with translation and stemming technique to avoid polysemy results that leads to misunderstandings of the verses' meanings. The research background explains the previous query techniques used in retrieving Quran verses in various languages then, the research motivation focuses on the gap of techniques and approaches conducted that leads to the lack of relevant Quran retrieval result. Meanwhile, problem statements raises the issues that have happened in the previous researches that are not implementing the automatic query expansion to avoid the polysemy result (Carpineto & Romano, 2012). After identifying the problem, research objectives indicate the important components to improve the Quran retrieval. The research questions are answered by the findings and analysis of the experiments through semantic query expansion with translation technique in Chapter 4 and 5. Before conducting the experiments, the research scope covers the Quran verses collection in different languages, the set of queries in different languages and the proposed technique and evaluation. For research methodology, the pre-processing, during processing and post- processing are explained in terms of semantic query expansion with translation technique diagram and evaluation used. Even though the study conducted achieves the research objectives, the research limitation however concerns on the tri-lingual dictionary that is developed based on synonymous words available for each language. No author has developed semantic tri-lingual dictionary previously except for the limited development in this study mentioned in Chapter 3 in more details. The significance of the study explains the accurate meanings of the Quran verses and QR result comprehensively.

1.2 Research Background

The increase in the Quranic Web, global repository and distribution network has caused Quranic Web search engines and other Web technologies to be particularly important in organizing and searching Quranic information. Finding relevant information from large domain-specific text collections in various languages for Quranic documents translation is an active research in text retrieval field and it is a challenging task to achieve a high performance (Volk et al., 2002).

However, Quran retrieval (QR) is focused on retrieving the relevant verses comprehensively to avoid polysemy results. Local researchers like Ahmad (1995) had started the study on Quran translation in Malay as monolingual study. Then, she and colleagues extended the experiment in stemming the Quran translation in Malay words only (Ahmad et al., 1996). Afterwards, Bakar and Rahman (2003) evaluated the effectiveness of thesaurus and stemming methods in retrieving Malay translated Quran documents as monolingual and then, Abdullah (2006) extended the research by focusing on monolingual and cross-language information retrieval approaches for Malay and English language documents based on Quran context. Meanwhile, international researches on Quran retrieval like E-Laila (2008) explained the verification of occurrence of Arabic word in Quran as monolingual. Alaa et al. (2011) concerned on the three search techniques; text based, stem-based, and synonyms-based systems, used in Quran as monolingual. Then, many researchers have conducted some studies regarding the semantic Quran ontology with various techniques including Khan et al. (2013), Iqbal et al. (2013), Ta'a et al. (2013), Yauri et al. (2013), Ain and Basharat (2011). Researches on bilingual Quran retrieval have also been conducted by previous researchers like Amjad et al. (2013) and Yahya et al. (2013). The last technique was

introduced by Zameer and Abdul (2013) pertaining to the ability to retrieve Quranic verses in Arabic using search phrases in languages.

CLIR focuses on the bilingual retrieval that has the source language in a query and then, the searching process retrieves the information in a different language from the target language (Sujatha & Dhavachelvan, 2011). Hence, Quran retrieval is a part of CLIR in order to improve the single query as automatic query expansion that combines the Quran translation method, semantic Quran ontology and, stemming algorithms in this study. Thus, new automatic query expansion technique is proposed for better Quran retrieval performance to avoid polysemy result and misunderstanding of the meanings from Quran verses. Therefore, semantic ontology and stemming algorithms are the main elements to enhance for Quran retrieval in this study, comparing the previous techniques as mentioned in previous researches.

1.3 Research Motivation

Many search engines are available nowadays to retrieve information either in the form of documents, websites, video, text, images and others. The website search engines should improve the Quran verses result for every query in the search field instead of website results. However, the search engines have never been able to produce the right information from the Noble Quran and this leads to substantial misunderstandings due to lack of retrieval techniques used in the searching process. There are few Quran search engine researches conducted with different techniques. Khan et al. (2013), Iqbal et al. (2013), Ta'a et al. (2013), Yauri et al. (2013), Ain and Basharat (2011) only focused on the semantic Quran ontology in classic Arabic language and no translation. Zameer et al. (2013) focused on Arabic and English but not in Malay translation. Amjad

et al. (2013) conducted English translation from different translators and Yahya et al. (2013) concerned on Malay translation and no semantic ontology was involved. Hence, the mentioned researchers do not focus on the query expansion that combines semantic ontology, many translations especially in Malay and stemming algorithms for the languages involved. The main issue is actually how to retrieve the relevant Quran verses and avoid the misinterpretation of the meanings for Muslim and non-Muslim seekers? How to avoid polysemy or different interpretation in searching results especially verses from the noble Quran? With a combination of existing techniques from semantic, translation and stemming algorithms approaches in Quran retrieval (QR) which will help the search engine especially in the single query as known as automatic query expansion to produce the relevant results that meet the users' queries and avoid the mismatch problem.

Therefore, this study proposes a technique to improve the Quran search engine in order to retrieve more relevant documents from Quran verses in Multilanguage retrieval system.

1.4 Problem Statement

The existing query techniques such as stemming algorithm and machine translation still causes low precision and recall in QR. This means that query techniques have less relevant result when each single query is tested. Some of the studies only focus on translation technique and some focus on stemming algorithm for the query. As a result, each technique has lack of QR performance for better and relevant results in terms of precision and recall percentage evaluation. The translation itself conducted by Zameer et al. (2013), Amjad et al. (2013) and Yahya et al. (2013) cannot improve the Quran retrieval. Stemming algorithm was also conducted by Ahmad (1995), Ahmad et al. (1996), Bakar and Rahman (2003) and Abdullah (2006) which did not improve Quran

retrieval performance according to the recall and precision evaluation. Therefore, the new query technique has to expand the single query in the combination of semantic, translation, and stemmed based technique simultaneously in the Quran retrieval process (Gómez et al., 2013; Ricardo & Berthier, 1999). In order to improve the Quran retrieval, the query technique needs to combine the translation technique (Amjad & Farahani, 2013; Yahya et al., 2013; Zameer & Abdul, 2013), the semantic Quran ontology (Ain & Basharat, 2011; Iqbal et al., 2013; Khan et al., 2013; Ta'a et al., 2013; Yauri et al., 2013), and stemming algorithm (Abdullah, 2006; Ahmad, 1995; Ahmad, et al., 1996; Bakar & Rahman, 2003; Eiman, 2009; Kanan & Al-Shalabi, 2008). The new query technique means that the automatic query expansion technique as a part of CLIR that improves the source language to enhance the searching process in order to retrieve more relevant results as the target language (Carpineto & Romano, 2012). Therefore, the target language is different depending on the selected language from the various languages. The query expansion technique is automatically related to semantic query, semantic ontology, semantic search or semantic translation or semantic retrieval. All the semantic studies are parts of CLIR to improve a query as a source language and in searching different resources or domain such as Quran verses collection. Hence, Quran retrieval is automatically a part of CLIR.

1.5 Research Objectives

The main purpose of the study is to automate the retrieval process of Quranic verses across multilingual context (Malay, English, Arabic). The specific objectives are as follows:

- 1) to develop algorithm of query expansion based on stemming, semantic and translation query in cross language Quranic retrieval.

- 2) to develop a prototype of cross language Quranic retrieval system for Malay, English and Arabic based on Stemmed Semantic Translated Query (StSTQ).
- 3) to evaluate the performance of the prototype system of the cross language Quranic retrieval.

1.6 Research Questions

Based on the research objectives, several research questions are posed as follows in guiding the conduct of this research at various stages:

- 1) What query expansion techniques should be used for the improvement of QR performance?
- 2) What framework could be adopted as the fundamental concept in developing the prototype?
- 3) Which query technique of cross language Quranic retrieval system is better in retrieving more relevant verses?
- 4) What is the performance of a prototype system of cross language Quran retrieval?

1.7 Scope

This research focuses on three languages of Quranic versus: English, Malay and Arabic 36 queries for these three languages are used for the purpose of the experiment as shown in Appendix C. These queries were translated into the targeted languages through lexical semantic dictionary in order to retrieve the identified documents. The lexical semantic dictionary includes 7831 Arabic words, 4070 Malay words and 12121 English words at 1326 lines (Mohd Puhzi et al., 2009). The dictionary comprises three files accordingly in Malay, English and Arabic with a set up semantic or annotation word for every line. These lines also enhance the performance of translating query and

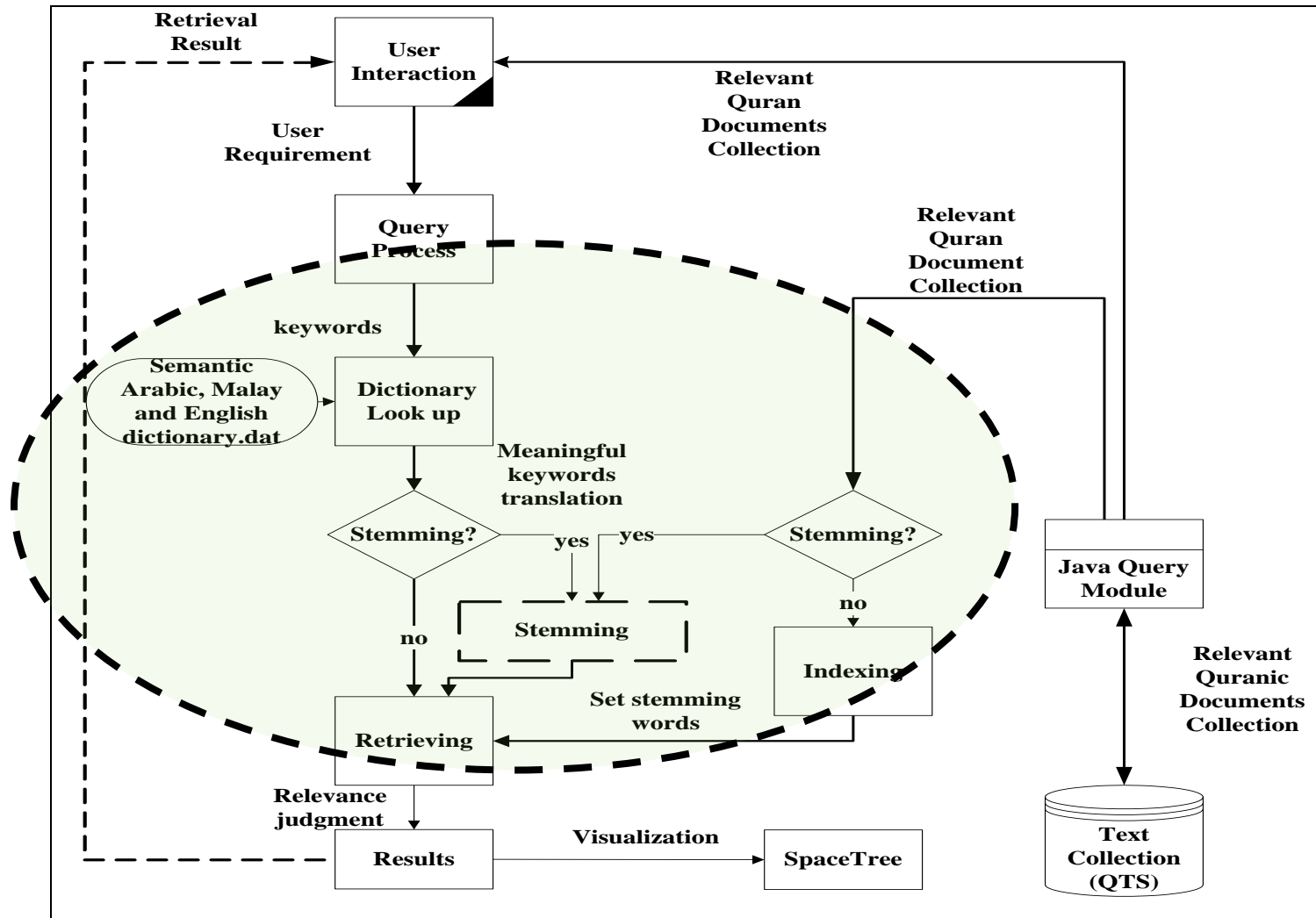
assigning of the translated query for its annotated words (Appendix B). For evaluation of the query expansion, 6236 classical Arabic language in Quran verses translated in Malay and English were employed as test collection in retrieving the ayats (verses) and surahs (chapters) based on precision and recall evaluation according to the total relevant ayats as benchmarks (Appendix E).

1.8 Research Methodology

This research starts with the investigation of literature on Quran retrieval, query expansion, the differences between CLIR and MLIR as well as semantic retrieval. In the present era of advanced information technology development, Quran text is crucial and information access should be efficient and effective in implementing the new technique that improves Quran retrieval. Appropriate approaches are introduced for presenting the better QR results and obtaining the relevant results in order to meet users' queries. The QR can retrieve information without difficulty by following some well-arranged procedures at various stages as shown in Figure 1.1. The improved elements focus on synonyms after translation process and roots during stemming process which are also shown in a circle in the Figure for QR in three languages. This study enhances the Ricardo and Berthier's (1999) framework in terms of the query translation, synonyms and roots that are matched between query and verses. The Ricardo and Berthier's framework only focuses on the single query in retrieving the result without focusing on synonyms after translation process and roots during stemming process (Ricardo & Berthier, 1999). However, the framework is chosen to be enhanced because the framework has the query processing and is easier to integrate with other techniques in order to test and evaluate the retrieval performance based on the certain techniques applied CLIR. The implementation of translation for the QR results can be better between languages whereby the query expansion techniques produce exhaustive

searched results.

As terms are synonymous and ambiguous, this leads to the motivation of expanding the original query terms (Bhogal et al., 2007). The following method in this research is a semantic approach in order to generate QR results with similar meanings instead of only one meaning in the list of the results. Its function is to present one result into another result until the presentation of the last result gives a better understanding and comprehension. The following process is stemming algorithm that is an alternative in providing extra result for the Quran verses with the same roots. The information provides better understanding and comprehension within root words in the queries for the disambiguation of the QR results which is done by listing information with different words originating from the same root word as such *eating*, *eaten* and *ate* originate from the root word *eat*. It might be that one query (*I ate the food yesterday before you came*) can provide the extra information from the words *eating*, *eaten* or *ate* even though one word in the query could either be *eating*, *eaten* or *ate*. Experiments were conducted to evaluate the conflated methods based on Arabic, Malay and English test collection.



Note: A Circle covers elements enhancement

Figure 0.1 : The Theoretical Framework of StSTQ

1.9 Research Limitation

The research limitation concerns on the tri-lingual dictionary based on synonymous words available for each language. This study develops limited semantic tri-lingual dictionary in Malay, English and Arabic as presented in Chapter 3 in more details. The semantic tri-lingual dictionary in Malay, English and Arabic was as referred in Kamus al-Farid as non- semantic tri-lingual dictionary (Mohd Puhzi, et al., 2009). The additional synonymous words for each word in Malay were taken from “Sinonim Inggeris-Melayu, English-Malay Synonyms” (Hassan, 1994); in English from “Oxford dictionary of Synonyms and Antonyms” (Clays, 2007); and in Arabic from “Using Arabic Synonyms languages” (Dilworth, 2010). The limit of the last line number of each language in the dictionary is 1324. However, the total of synonymous words of each language is different at each line or in a file.

1.10 Significance of the Study

This section generally highlights the main research achievements and research output described in the last chapter. The findings of this research provide various aspects of the important requirements for effective QR based on query expansion techniques (Bhogal et al., 2007) through semantic words (Mihalcea et al., 2006; Volk et al., 2002), and QR stems semantic words in order to present QR results with visualization and to overcome the lack of relevant verses. This research also provides the framework of QR system based on StSTQ. This research indicates the QR improvement performance through semantic query translation with lexical semantic dictionary to help Quran readers in understanding comprehensively the meanings of the ayats in their languages in publications (see Appendix F).

This provides beneficial aid and convenience for users to save time as they can use the system in searching automatically when they forget the meanings of the verses. Knowledge on the performance of query terms and dictionary-based method is beneficial for future studies to look at ways to overcome translation polysemy in CLIR.

This study attempted to explore information retrieval based on semantic translated query and then stemmed in English, Malay and Arabic languages. Chapter 2 is mainly on literature review. Chapter 2 explains QR, CLIR in QR, the technique used in QR, Query Expansion, semantic retrieval, and Issues in CLQR. Various stages of the methodology including data collection, implementation, and methods involved are explained in Chapter 3. Data collection which encompasses three languages, namely Malay, English and Arabic covers text, queries, stopwords, translated query, stemmer, lexical semantic dictionary, and relevance judgment. The implementation steps considered the technology requirement to develop the prototype searching system. The prototype searching system involved methods which include pre-processing, storing, retrieving, and evaluation. The experiments, implementation results and analysis are discussed in Chapter 4 with system testing based on precision and recall evaluation for 36 natural language queries for the three languages. Results evaluation and findings clearly show comparison between different conflated methods which include StSTQ, StTQ and STQ. Finally, Chapter 5 covers the conclusion and implication of future direction.

2.0 LITERATURE REVIEW

2.1 Introduction

This chapter discusses on the important topics regarding Quran retrieval, CLIR in Quran Retrieval, Techniques used in Quran Retrieval and Issues in CL Quran Retrieval. Quran retrieval, as explained in previous researches, is regarding the techniques used in retrieving the relevant Quran verses. Quran retrieval is a technique that evolved based on research-by-research that relates CLIR to enhance its performance. CLIR in Quran retrieval has bilingual retrieval that starts from a query as source language to the retrieval result in a different language from the target language. The technique used in Quran Retrieval explains the existing techniques applied on the QR of the relevant Quran verses. The semantic retrieval is a part of automatic query expansion that improves QR using stemming algorithm. Thus, Issues in CL Quran retrieval describes the lack of relevant results to meet users' inquiries.

2.2 Quran Retrieval

Nowadays, Quran retrieval is very important to find and to present the relevant verses according to the technique used such as translated query, semantic query or stemmed query. Review of previous studies reveals that a research on Quranic text to be implemented in digital system to retrieve relevant verse(s) with the chapters had been conducted by Ahmad (1995) and Ahmad et al. (1996) in Malay language. The researchers introduced initially stemming algorithm but with lack of CLIR performance focusing on a query translation clearly. They only focused on the Malay stemming algorithm for Quran verses translation in Malay. Then, this continues with another research by Bakar and Rahman (2003) on the query for retrieving Quran verses. This is the initial beginning of Quran retrieval using a single query. The next research

conducted by Abdullah (2006) focused on the enhancement of stemming algorithm performance on Quran translation in Malay. Eiman Al-Shammari (2009) also introduced a stemming algorithm to normalize noisy text, which only focuses on the Arabic language and introduced a new similarity measure to stem Arabic noisy document (Eiman, 2009). Kanan et al. (2008) also proposed a new light stemming technique using a set of rules to determine if a certain sequence of characters is a part of the original word or not and this has helped users to reduce some ambiguity problems, and introduce a way for handling the majority of broken plural forms and reducing them to their singular form and this would help them in grouping words of the same meaning in a common form (Kanan & Al-Shalabi, 2008). E-Laila (2008) has explained the verification of occurrence of Arabic word in Quran as monolingual. She does not implement bilingual retrieval system using translation technique on query. Amjad et al. (2013) conducted English translation from different translators and Yahya et al. (2013) concerned on Malay translation. They only focused on the Quranic documents translation without considering the users' queries.

Many researchers have conducted experiments regarding the semantic Quran ontology research-by-research that have contributed about 70% recall percentage. They include Khan et al. (2013), Iqbal et al. (2013), Ta'a et al. (2013), Yauri et al. (2013), Ain and Basharat (2011) who have improved the query using semantic ontology regarding the Quran themes. Quran retrieval allows the user to search about keywords in the holy Quran and its translation and retrieve the relevant verses which is from an Ontology assisted semantic search system in the Quran domain (Alaa et al., 2011). The authors conduct experiments pertaining to the classical Arabic collection in monolingual or single language.

Semantic Quran ontology itself can improve the Quran retrieval process due to the monolingual Arabic but there would be lack of results if there is no Arabic stemming algorithm. As a conclusion, it is important to enhance and improve the Quran Portal to perform content retrieval (Iqbal, et al., 2013). This study can improve and enhance each query in the search engine to get information in different Quran verses and languages through automatic query expansion; combination of translation, semantic and stemming approaches that can lead to a meaningful retrieval (Al-Nazer & Helmy, 2013; Marín Pérez et al., 2011; Mueckstein & Moerdler, 1985; Payton et al., 2010; Uflacker & Zeier, 2011).

The research can extend the application using automatic query expansion to improve Quran retrieval that would produce more interesting results for the Quran verses. In this study, Quran retrieval can retrieve the verses in other languages including Arabic, English and Malay translation result (Zameer & Abdul, 2013). The semantic research can be integrated with translation in other languages as done by Bakar and Rahman for the domain that contains the verses and chapters in classical Arabic language and various documents translation in English and Malay (Bakar & Rahman, 2003). Although the verses' words are translated in different languages, they have same verses' meanings which are grouped as noun, verb, adverb and adjective. For the query expansion through semantic ontology, the words are indexed and grouped according to the similar meanings or synonyms in the dictionary. For example, "eat" word can have reference to the same meaning such as "swallow" and "bite" at a line in the dictionary (Afrati, 2011; Alejandra Segura et al., 2011; Habernal & Konopík, 2013; Kapetanios et al., 2005). Interestingly, this study exposes the benefit of expanding a query through semantic approach and retrieving more relevant verses through stemming process. The semantic words such as verbs, nouns, adjectives, and adverbs are classified in order to

relate the information accurately and effectively (Alejandra Segura, et al., 2011; Gao et al., 2013; Habernal & Konopík, 2013; Tao et al.; X. Zhang et al., 2013).

The implication of the new technique through query expansion for Quran retrieval might be excellent in satisfying the users' queries. Improvement in the Quran retrieval process might produce comprehensive Quran verses needed by the information seekers who need to acquire the right information for their query. Implementation of query expansion with the combination of machine translation, lexical semantics and stemming algorithm definitely improve Quran retrieval. Reliable automated Quran retrieval systems are needed to reduce irrelevant information. Each query might retrieve the relevant Quran verses if the query expansion has better combination of each other whereby machine translation, stemming algorithm, and lexical semantic aspects exemplify the better conflated methods.

2.3 CLIR in Quran Retrieval

One area of IR that has seen a great deal of interest and has had many impressive advances is CLIR. The goal of CLIR is to allow users to make queries in one language and retrieve documents in other languages. The queries in CLIR can be any languages but MLIR can be one only to retrieve the result in another language. In order to enhance Quran retrieval based on CLIR, query expansion needs to focus on the lexical semantic dictionary. In this research, the result may vary compared to short query. The resulting documents can then be translated into the language used for the query to allow the user to get the gist about the information retrieved. For example, a user makes a query in English about "flower arrangement" and receives documents back in Japanese about "Ikebana" which is Japanese flower arrangement (Macizo et al., 2010; Yunus, 2008). Macizo and partners (2010) had focused on short query translation that retrieves very

few relevant results if no lexical semantic dictionary. This lexical semantic dictionary includes translation on query. Therefore, CLIR in Quran retrieval is better to integrate with semantic technique rather than MLIR that facilitates the uses of queries in one language in order to access documents in different languages. Thus, the problem of MLIR is the extension of the general problem of monolingual information retrieval and one language in all queries. MLIR can be thought of as a combination of machine translation and traditional monolingual information retrieval for translating words in documents in many languages. Most research has focused on locating and exploiting translation resources with which the user's search requests or target documents (or both) are translated into the same language (Chen & Gey, 2004). For that reason, this study focuses on query expansion technique based on CLIR and semantic ontology that retrieves Quran verses in different languages accordingly.

2.4 Technique used in Quran Retrieval

In general, there are three main existing techniques of the query such as translation of a query technique, synonyms of translated word technique and stemming a query technique separately conducted by different researchers. Firstly, the translation technique is a part of CLIR known as bilingual retrieval system. This technique had been conducted by Zameer et al. (2013), Amjad et al. (2013) and Yahya et al. (2013) previously. This technique on a query is retrieving Quran verses in a different language. Secondly, semantic Quran ontology is a part of Quran retrieval and CLIR to retrieve the Quran verses with the same meanings. This technique on a query had been conducted by Khan et al. (2013), Iqbal et al. (2013), Ta'a et al. (2013), Yauri et al. (2013), Ain and Basharat (2011). The last technique used in a query was conducted by Ahmad (1995), Ahmad et al. (1996), Bakar and Rahman (2003) and Abdullah (2006), Eiman Al-Shammari (2009) and Kanan et al. (2008) to retrieve the Quran verses based on root

by root process. The Quran retrieval process using this technique has all the affixes with the same root.

2.4.1 Query Expansion

Automatic semantic information processing system (ASIPS) is important in employing semantic or annotation resources. The annotation is an expanding of a query to be more realistic to find the necessary information for the subsequent operations and tasks. The greatest hindrance to the widespread usage of semantic systems is the complexity of knowledge acquisition (John, 2011). The learning process based on annotated resources can prepare the subsequent critical tasks, which are needed by determining decision result action and others. The framework of implementing the annotation in the computer system can provide more opportunities for information seekers in the linguistic translation. ASIPS can be linked to all elements in order to utilize all resources, which come from different servers (Habernal & Konopík, 2013; Kapetanios, et al., 2005; Kern et al., 2013; Kim et al., 2007; H.-Q. Wang et al., 2013). The resources can be translated or annotated into words in a query technically to improve the performance of IR. ASIPS depends on word-by-word, phrase-by-phrase or sentence-by-sentence annotation translation. ASIPS is not feasible due to issues in linguistic words types and techniques used in the attempts to increase the correlation and linkage technology. The searching and retrieval technique can be improved in order to achieve better IR results, IR presentation, and IR framework or design. The retrieved information based on ASIPS design is prepared for decision making and relevant knowledge whereby the query is translated into different languages with synonyms (Fabian et al., 2013). The query generates relevant and potential synonyms in improving the relevant information in the results.

The relationships of synonyms in different languages have increased the performance of CLIR due to the expanded query with semantic technique and stemming algorithm. Indexed or referenced synonyms are better approaches for linking word-by-word, synonym-by-synonym, or language-by-language data. The indexed synonyms also have a matching process in reading word-by-word in the collection. The matched synonyms process can lead to better query based on the single query via semantic query. The synonyms dependency query is therefore necessary to look up the dictionary to search for relevant information (J. Kim et al., 2013; Nieves et al., 2013). Indexing the words of all synonyms via matching process can lead to outstanding results and it is even better through stemming synonyms. ASIPS can be further improved based on integration with conflated algorithms methods.

ASIPS design in linguistics resources can involve different forms of multimedia data such as text, audio, image, and others which depend on novel or improved techniques such as labelling, tagging, filtering and indexing. In order to fix or upgrade the ASIPS, there should definitely be query expansion for the input. While IR can be in the form of CLIR and multilingual information retrieval (MLIR), input type plays the main role to search information regardless of the linguistics factor (Arch-int & Arch-int, 2013). Information has to relate to synonyms in the expanded query in order to improve the relevant results translation. ASIPS provides the linguistics translation results via annotations and semantic algorithms such as tagging and labelling. Disambiguation results have improved CLIR and MLIR in explaining the query in terms of synonyms and conflation semantic with stemming algorithms. The relevant information can be initiated with manipulated input in CLIR through extension and new algorithms until the manipulated output is produced in MLIR for the purpose of understanding. By matching vertical and horizontal synonyms process, IR is more effective in presenting

feasible description and elaboration. ASIPS can be learning and encyclopaedia systems due to the resources and collection to be accessed (Kern, et al., 2013; J. Kim, et al., 2013; Nieves, et al., 2013). Increasing resources and collection can produce more relevant and significant results to meet the single query that has been expanded. Therefore, expanded query consists of possible words that are related to each other in order to improve IR performance for better relevant judgment. Consequently IR systems can be important in terms of their functions, improvements, and performance. The CLIR is concerned with factors on relevant judgment such as type of query, the type of collection, indexed results and cross type retrieval, cross language retrieval and cross synonym retrieval. The informative results can be derived from all the IR factors. However, ASIPS can be a multimedia system which facilitates the process of representative results through semantic approach with conflated methods such as stemming. It is therefore imperative that ASIPS should be widely expanded with integrated processing approaches including translation, semantic, stemming and cross information representatives. With the extensive novel researches, the IR factors and conflated methods are more critically tested and analysed due to query expansion. Hence, it can be useful with CLIR (J. Kim, et al., 2013; Nieves, et al., 2013). However, the new approach in CLIR can translate the given query for different languages. As a conclusion, semantic approach can produce synonym words from the given single query. Then, the stemming process can remove all the affixes such as infix, suffix and postfix of the synonym words in CLIR and MLIR to obtain only the root words (Fu et al.; R. Li et al.; Sbattella & Tedesco, 2013). After that, the matching process automatically can look for the same root word such as “eat” between CLIR and MLIR in order to obtain more relevant results. The results can have the same root words but different in their linguistic usages such as “eating” and “ate”. Chapter 3 explains the conflated methods which propose the significant methods for IR.

2.4.2 Semantic Retrieval

An information discourse is sub-divided into linguistic elements in hierarchy components of sentences, phrases, words and characters. Semantics relationship needs to be considerate in producing comprehensive CLIR Quranic results. Semantic words in linguistics can be interrelated to each other even if they are in the form of different languages in Quran. Computer-based researches and projects are widely introduced in semantic studies in order to improve Quran Retrieval. In computerization systems, many semantic improvements have been done such as tagging and labelling (Chan et al., 1997; Nehme et al., 2013; H. Wang & Wang, 2013; Wu et al.). A dictionary is used to store the semantic words in order to set up indexing number in matching those words and then getting those words which are having synonym of each Quranic word in a query. The linguistics is more relevant with synonym words translation in order to provide interrelated relationship among words in different languages. The lexical semantic words translation is beneficial to prepare information translation by some applications such as web-search engines. The translation among languages is more beneficial to be joined with synonym words even if the translation has led to immense linguistics. The improvements in synonyms translation have been conducted into empirical experiments for the benefits of other fields (Alejandra Segura, et al., 2011; Malo et al., 2013; Meier et al., 2013; Rivero et al., 2013).

The synonyms translation however can be improved by conflating such as by stemming algorithms in different languages. The linguistics domain experts in various domains such as Quran study have involve the process of relating the synonyms for a new form of knowledge in the domain from the interrelated information. All synonyms from gathered information can be annotated and even indexed in order to refer to the right

related synonyms. Importantly the subsequent synonyms are quite easy to be referred by most annotated words (Arch-int & Arch-int, 2013; Y. Li et al., 2013; Liu et al., 2013; Payton, et al., 2010). The flowchart of describing the correlated and interrelated synonyms can be in hierarchical structure mind map and tree branches growth. Moreover, these depict the flow of words which are related to each other for the orientation of improving the synonyms translation. The linguistics improvements have been discussed in terms of semantic words or synonyms flowchart of synonyms translation and semantic dictionary (Brown & Capretz, 2013; Fabian, et al., 2013; Kang et al., 2013; K. Kim et al., 2013; Latré et al.; C. Zhang et al.). The linguistics dictionary development with the purpose of linking the synonyms can be part of IR including audio, video, text and others. It depends on the methods applied in introducing the significance of improving certain data type according to the research interests. The annotations for each word in different languages can be more specific in order to know the simplified explanations of synonyms in CLIR. The linguistics with more annotations can lead to synonyms translation in the improvements of increasing the number of interrelations among synonyms and incoming words in the linguistics dictionary. The relationship between linguistics and synonyms is so close with improvement contribution significance and performance of IR (Farnaghi & Mansourian, 2013; J. Kim, et al., 2013; Nieves, et al., 2013).

Many discussions have been conducted in manipulating the linguistics in order to have the right results in meeting the query. All connections through computer systems are integrated in order to link the linguistics resources so that they are annotated to each other. The annotated information results can be beneficial to the linguistics in order to link synonyms translation (Abanda et al., 2013; Harvey et al., 2013; Myers & Atkinson, 2013; Pohorec et al.; Sajja & Akerkar, 2013; Yazdani & Popescu-Belis, 2013). The

linguistics have their elements in terms of poems, news, articles, magazines, and others in different languages and structures with those correlated synonyms in different languages. The information role has led to the new knowledge to be developed in improving the environment of the technology. It is therefore the information translation that is affected by synonyms translation due to the relationship of synonyms, which are relevant to each other in different languages. Linguistics has multilingual information which leads to integrating and linking them in order to improve many applications that use different resources (J. Kim, et al., 2013; Nieves, et al., 2013). The resources, which have similar meanings, can be annotated in order to understand the whole information presented in better defined formats. The syntactic corpus can be determined by semantic study in enhancing the meanings or the translation on utilised applications. Constructed semantic in different languages is more beneficial in order to enhance IR for better understanding on text and other multimedia form (J. Kim, et al., 2013). Clearly the extension of semantic linguistic can be conducted further in many more different forms of data in order to apply them in many future systems. The high polysemy can be more ambiguous due to the lack of better approach, even more in linguistic. The meaningful results depend on how the particular approach can lead to illustrating the IR in a better presentation of the description. Hence, the improvement of linguistic studies can lead the way of multimedia processing for better presentation.

The semantic operational definition is the number of synonyms for each word in a query to be generated in retrieving verses and more significant retrieval to be integrated with other techniques such as stemming technique, machine translation, and auto-correct spellings in the retrieval performance.

All words, phrases, and sentences in Quranic documents translation derived from gathered information and collections are the terms as the resources for testing and analysing the results. The phrases can be the meaningful extensions to discover the relevant information. They have word-by-word construction for increasing either the matching synonyms process or words process. However, word-by-word in the information is considered for meaningful words only but not for stop words, which are considered unnecessary words in the matching process. The improvement of IR performance is more effective in terms of evaluation and analysis without ambiguous results (Paltoglou et al., 2010; Sacaleanu & Neumann, 2010).

Semantic word-to-word construction is the process of looking for synonyms in the scope or boundary or compound in order to cover the critical information. However, the selected words are considered to improve semantic words in the process of setting up the dictionary. Semantic relationship can ease the process of producing IR results either for performance or other improvement achievements amidst the large resources with different languages. When more stop words are deleted, not only more meaningful words in the phrases will be covered but also the larger the size of improved IR results as to which semantic words in the query that should be assigned as expanded query. The meaningful phrases contribute to significant improvement for comprehensive IR results (Al-Nazer & Helmy, 2013; Kern, et al., 2013; Kim, et al., 2007). However, the compound synonym which stores a lot of information due to the manipulated phrases in the query can yield the whole massive information. The form of information can present dynamic flow of words to be used in semantic process due to the compound synonyms and multi-type data collection with the referenced numbers. Organization of generating the compound synonyms enhances the results retrieval due to the total existing words in

the dictionary. IR results normally depend on the compound synonym which carries the subsequent words for the matching process in order to improve the CLIR and MLIR results (J. Kim, et al., 2013; Nieves, et al., 2013).

Every word is unique in terms of language code character and information content. The studies of words have been conducted in many fields such as natural language processing, semantic Web, CLIR, MLIR and others. Many words are located in dictionaries, files, web sites and in other repositories in order to set up a collection for IR. As a result, numerous approaches have been proposed to increase the comprehension of the IR results by manipulating the query and collection. Some of the approaches are for semantic stemming translation while others are for analysing the text results. Word as a string in programming language can be associated with image, audio or others by implementing novel approaches in integrating with different data types. Therefore, the dictionary-based approach is relevant to word, which carries many words with the same meaning (Al-Nazer & Helmy, 2013; Blanco et al.; Kern, et al., 2013; Yus et al.).

The form of knowledge is started with characters and then words followed by meaningful sentences and ends with the last process of converting them into information. The knowledge is necessary in explaining something, which carries comprehension in the text. Informative text has many meaningful words due to performance of IR results, which represent the knowledge and comprehension. However, IR performance depends on how effective is the search engine, which relates the manipulated query. The words relationship can improve the whole information due to the synonyms relationship in CLIR and MLIR (Blanco, et al.; Fabian, et al., 2013; Kapetanios, et al., 2005; Sajja & Akerkar, 2013). The synonyms or words relationships

refer to their interrelationships in order to study the results to improve the comprehension. Better comprehension is related to results understanding with regard to CLIR and MLIR as better approaches. This means that the results can lead to improvement of processing synonyms for enhancing the query collection and dictionary of different languages (Fabian, et al., 2013; Kang, et al., 2013; K. Kim, et al., 2013; Schoefegger et al., 2013; Uddin et al., 2013; C. Zhang, et al.).

2.5 Issues in CL Quran Retrieval

The issues in Cross Language (CL) Quran Retrieval relate to the irrelevant results retrieved that do not yet meet the users' queries because of the short query. Even though many researches had been done for improving the QR but the query techniques applied to the short query do not retrieve the required result. It means that the existing query techniques actually do not improve the users' queries to retrieve the relevant Quran verses because the short query is not expanded yet to generate more relevant words in QR. Some previous researches focused on the query translation (Amjad & Farahani, 2013; Yahya, et al., 2013; Zameer & Abdul, 2013) and some focused on stemming algorithm (Abdullah, 2006; Ahmad, 1995; Ahmad, et al., 1996; Bakar & Rahman, 2003; Eiman, 2009; Kanan & Al-Shalabi, 2008). Both techniques; translation and stemming algorithm approaches do not expand the short query to generate the relevant words for retrieving the relevant result.

Another issue, semantic ontology applied in the short query do not also improve QR because the retrieval result might be less than stemming algorithm approach. Semantic ontology expands the query based on the available relevant words in the dictionary (Ain & Basharat, 2011; Iqbal, et al., 2013; Khan, et al., 2013; Ta'a, et al., 2013; Yauri, et al.,

2013) while the stemming algorithm generates and matches root words in the query and Quran verses collection to retrieve the verses with the same root words.

2.6 Summary

This chapter covers the semantic approach pertaining to the query expansion by which its synonyms can help CLIR to produce better results. Hence, CLIR and MLIR have interconnections to perform better results in terms of word-by-word, phrase-by-phrase and language-by-language through translation approach before semantic and stemming approach can help further in more relevant information. However, semantic can involve reference semantic approach consisting of linked words in the dictionary rather than the sole semantic approach. Hence the better results are referred to as comprehension or understanding of the relevant information according to the expanded or optimized query. The results produced because of inquiry of more information to be applied or employed on decision making are regarded as knowledge. The extension of better results is also referred to as cross language, cross synonyms and cross words. Thus, semantic retrieval researches are related to a query collection and dictionary in displaying significant information in different areas.

3.0 RESEARCH METHODOLOGY

3.1 Introduction

This chapter discusses the research method employed throughout this research work. It includes pre-experiment process that prepares data collection, the retrieval process that explains the programming language used in QR system development, and the methods that shows the system procedure in retrieving Quran.

The process started with the pre-experiment process and firstly, the Quran verses preparation covers the classic Arabic and its translation in English and Malay. The queries were then set-up for automatic query expansion in retrieving the Quran verses. Thirdly, stopwords were prepared to remove the unnecessary verses in a query during the retrieval process. QR employs lexical semantic dictionary in translating the queries and annotating the translated words in the translated query. The stemmer's dictionary was employed for stemming all the synonyms in the translated query and words in the verses in all documents. The relevance judgment is a benchmark to compare Quran retrieval result. The experiment process explains the pre-processing for a query. When a query is processed, the translation, synonyms and roots are assigned to it as automatic query translation. The automatic query expansion looks up the matched relevant Quran verse and documents in terms of translated words, synonyms and roots. Finally, Quran retrieval produces the result, QR evaluates and analyse the result in terms of precision and recall percentage.

3.2 Pre-Experiment Process

In order to conduct the experiments, data regarding the Quran verses which are classic Arabic verses and the translations in English and Malay were gathered accordingly as

three sets for the collection. The tested queries in Arabic, Malay and English are important in retrieving cross language Quran retrieval verses. The lexical semantic dictionary (see Appendix B) is developed for matching each word with its relevant synonyms to get the matched relevant and necessary IR results based on CLIR. The dictionary is useful in translating the query. The stopwords' files are used for removing the unnecessary words in the query (see Appendix A).

3.2.1 Quran Verses

Three Quran documents were used in these experiments; coming from the original Holy Quran, Malay Quran documents collection (Ahmad Hatta, 2012) and English Quran documents collection (Yusuf, 2006). Each collection has 114 surahs and 6236 documents. Every document has numbers beginning with q which means query, followed by numbers with the first three numbers that denote the chapter and the last three numbers denote verse for every filename such as q034006. However, in the filename the number of surah begins with '.' or dot, followed by the number of ayat which begins with ',' or comma followed by the number of ayat, for example .34, 6. All documents are as flat files in ASCII or EBCDIC text and the searching process was via pattern matching.

3.2.2 Queries

A query is a few meaningful words in the search engine used to retrieve relevant documents. In this study the words input are called query for any matched words in the documents. In this research, the set of Malay queries were taken from Ahmad (1995) with the assistance from an Arab student from Universiti Kebangsaan Malaysia and also included the translation of the query in English and Arabic languages. The queries had been employed by Abdullah (2006) for his study regarding the Malay stemmer

evaluation in stemming the words in Quran documents. In order to test query translation, three set of queries in Malay, Arabic and English languages were prepared to evaluate the performance of Quran retrieval (Ahmad, et al., 1996) in English and Arabic as shown in Appendix C. Each query would be separated and broken into keywords and replaced by target language. For example if the query is in Malay (M), it is called as source language, and the target languages can be English (E) and Arabic (A). Thus, the English word represents the translated word to retrieve English documents or the Arabic word represents the translated word to retrieve Arabic documents; and if the query is in E, the target languages are M and A or if the query is in A the target language is M and E. This process can verify all the languages through the selection of source language and then, a search for the same indexed words in other languages in the dictionary for the translation of selected target languages was carried out. The translation depends on the same indexed words that contribute the same meanings into other languages through the dictionary.

The queries were translated in other languages through tri-lingual lexical semantic dictionary (Ahmad, et al., 1996) in Malay, English and Arabic, termed as translated queries. In the translation process, each word in the query was translated to look for the best translation.

3.2.3 Stopwords

Stopwords are used to remove the meaningless words in the query during the retrieval process. This increases the system efficiency. Therefore, it is easier for the system for it does not have to process meaningless words. By having Arabic, Malay and English stopwords collection, it is easier to remove the common meaningless words in Appendix A. Some stopwords in all the languages have commonly same equivalent

words. Example for Malay (Abdullah et al., 2005) is *ialah* or *adalah*, English (Zaman et al., 2011) is *is, are, was, were, be or am* and Arabic (Al-Shalabi et al., 2004) is *كان, أصبح, يوجد, ذهب* or *بقي*. Hence, the languages have some common stopwords to be removed in the query.

3.2.4 Lexical Semantic Dictionary

The lexical semantic dictionary provides translation and synonyms for the words. The translation employed is according to the index numbers that are equal to each language for targeting words in other languages. Meanwhile, synonyms are assigned according to the same index or line number for each word with its synonyms. Even though the dictionary has the same limit line of each language at line number 1324, the Arabic file has 7 831 synonyms, Malay file has 4 070 synonyms and English file has 12 121 synonyms in each file and the same line of the 3 files has the same meanings and synonyms in different languages. Each line has different total synonyms that depend on the relevant file and the translation dictionary refers to Malay, English and Arabic (Mohd Puhzi, et al., 2009). When the word is in Malay, the reference of the English word is at the same index; or when the word is in English then the reference of the Malay word is at the same index (Appendix B).

3.2.5 Stemmer

Arabic (Shereen, 2001), Malay (Ahmad, 1995; Ahmad, et al., 1996) and English (Porter, 1980) stemmers can remove all the affixes of the words and the synonymous words in the query and all words in the documents collection. The stemmed word is known as a root word. This matching root word process between query and verses collection can enhance Quran retrieval performance. In addition, the matching process

between each root in the query and all roots in the documents collection in a language were performed automatically, known as root-roots process due to the stemming of both sides. Figure 3.3 explains that each root in the query is matched with all the same root in all verses in the collection.

3.2.6 Relevance Judgment

The relevance judgment lists down the accurate total relevant documents for each query as listed in Appendix E. Ahmad, the Arab student from Universiti Kebangsaan Malaysia manually searched the accurate total relevant verses in the Quran for 36 queries (Ahmad, 1995; Ahmad, et al., 1996). This study compares Ahmad's relevance judgment for each result of 36 Malay queries through QR (Ahmad, 1995). This means that the empirical experiments compare the relevance judgment to QR system results (Ahmad, 1995; Ahmad, et al., 1996).

3.3 The Retrieval Process

In order to conduct the experiments, appropriate software and tools were considered for developing a Quran search system including Java Language, Tomcat and Java Serverpages (JSP). Java Language is the entry ramp to the Java Platform. Stemming, semantic, and translation programs were written in Java Language, and then compiled and launched on the Java Platform. Translation program calls the semantic files to meet a query language (example: *comparison* in English) and semantic codes automatically generate indexing words from the semantic files (example: *consideration*, *similarity*, *competition*, and others). Then, stemming codes calls the stemming dictionary to remove all the affixes such as suffix, infix, postfix and prefix of all words in the translated query and documents collection as root words. Each root in a query (example: *compare* in query to be matched *compare* in documents collections) is matched with

root words in documents collections to retrieve ayats or verses. The retrieved ayats or verses presents various affixes (example: *comparison* to be *compare*, *compared*, *comparing*) and verses in JavaServer Pages (JSP). Meanwhile, JavaServer Pages (JSP) technology enables Web developers and designers to rapidly develop and easily maintain information-rich dynamic Web pages that leverage the existing IR systems. As part of the Java technology family, JSP technology enables rapid development of Web-based applications that are independent platform. JSP technology separates the user interface from content generation enabling designers to change the overall page layout without altering the underlying dynamic content. To run JSP pages a web server with a web container conforms to JSP and servlet specifications. The web container executes on the web server and manages the execution of all JSP pages and servlets running on that web server. Tomcat 3.2.1 is a complete reference implementation for the Java Servlet 2.2 and JSP 1.1 specifications.

The main menu describes the query types which process Arabic, Malay or English query to display required QR results. Then, index numbers in the system result are matched with index number in the manual search result to count the total similarity hits. The result is based on word-by-word or one phrase query. Then, the query is expanded for retrieving relevant QR result. There are 27 processes relevant to the stemmed semantic, semantic and normal QR, as such that each language has nine processes applied on the system.

3.4 Methods

In order to conduct experiments, proper preparation of data collection and tested queries are necessary in evaluating and analysing the QR results, which were compared to manual search results. The state-of-the-art in QR was started by pre-processing,

followed by storing, retrieving and evaluation of the results. StSTQ technique was implemented in expanding the query based on a hybrid Latent Semantic-Vector with Space-based query mapping technique (Al-Nazer & Helmy, 2013; Kern, et al., 2013; Kim, et al., 2007) and light stemming algorithm (Eiman, 2009).

3.4.1 Pre-Processing

At the beginning of the process, the system removes meaningless words or stopwords query. Then, it translates the meaningful query into other languages via lexical semantic dictionary. It also translates the query in one language to another language and looks for words in the target language. During expanding process, each word in the target language looks for possible synonyms as semantic. A hybrid Latent Semantic-Vector with Space-based query mapping technique is applied for each query and then expanded (Al-Nazer & Helmy, 2013; Kern, et al., 2013; Kim, et al., 2007). This mapping automatically expands the query based on the latent semantic terms in the dictionary that are matched in the documents collection for the retrieval. Words in a query are the source language and the system translates them into another language that is the target language. Each word in the translated queries has its synonyms by looking up in the lexical semantic dictionary. At last, the synonymous words are stemmed to look up for their root words before matching each root with the roots in the verses collection (Eiman, 2009).

3.4.2 Storing

The system has three QR results for each query; verses result of words in the translated query, verses result of synonyms in the translated query and verses result of roots in the translated query when the system stems all the affixes in all words and its synonyms in the translated query to generate their roots. Each word in the target language looks for

its verses until the final, which is assigned as the first result. Then, each synonym for a word looks for its verses until the final, which is assigned as the second result. Lastly, each root for a synonym looks for its verses which contain the same root until the final, which is regarded as the last result. Thus, QR has the first result, second result and last result becoming one result for each translated query. QR results are indexed according to the respective chapter and classified as K or Q.

3.4.3 Retrieving

The retrieving process looks up the synonyms based on each word in the translation to retrieve better QR results. In this research, when a query is in Malay words, the words are translated into English or Arabic. Each English word looks for their synonyms and each synonym is stemmed for its root. Then, there are two choices, whether to do stemming of the words or not. In the stemming process, QR removes all the affixes such as suffix, prefix, and infix for one synonym and all the English words in all verses to gather the same root verses and the rest of the synonyms follow the process automatically until the final for QR result. In fact, the stemming process is necessary for each synonym in a query and document simultaneously and automatically in order to retrieve documents that are more relevant as shown in Figure 3.3. The process leads to matching of each root in a query with all roots in the documents as known as root-roots matching process in Figure 3.2. Figure 3.1 shows the query expansion through StSTQ which is processed for its translation into another language and then, their synonyms will be looked up for, which are processed for their roots through the stemmer together with the roots in all the verses in a specific collection based on the input language. Figure 3.2 explains the theoretical framework of StSTQ for root-roots matching process based on the context of a root for a synonym in an expanded query that looks for the

same roots in all the verses to be resulted. QR results consist of word-by-word result or keyword, namely K or the whole words or full phrase, namely Q.

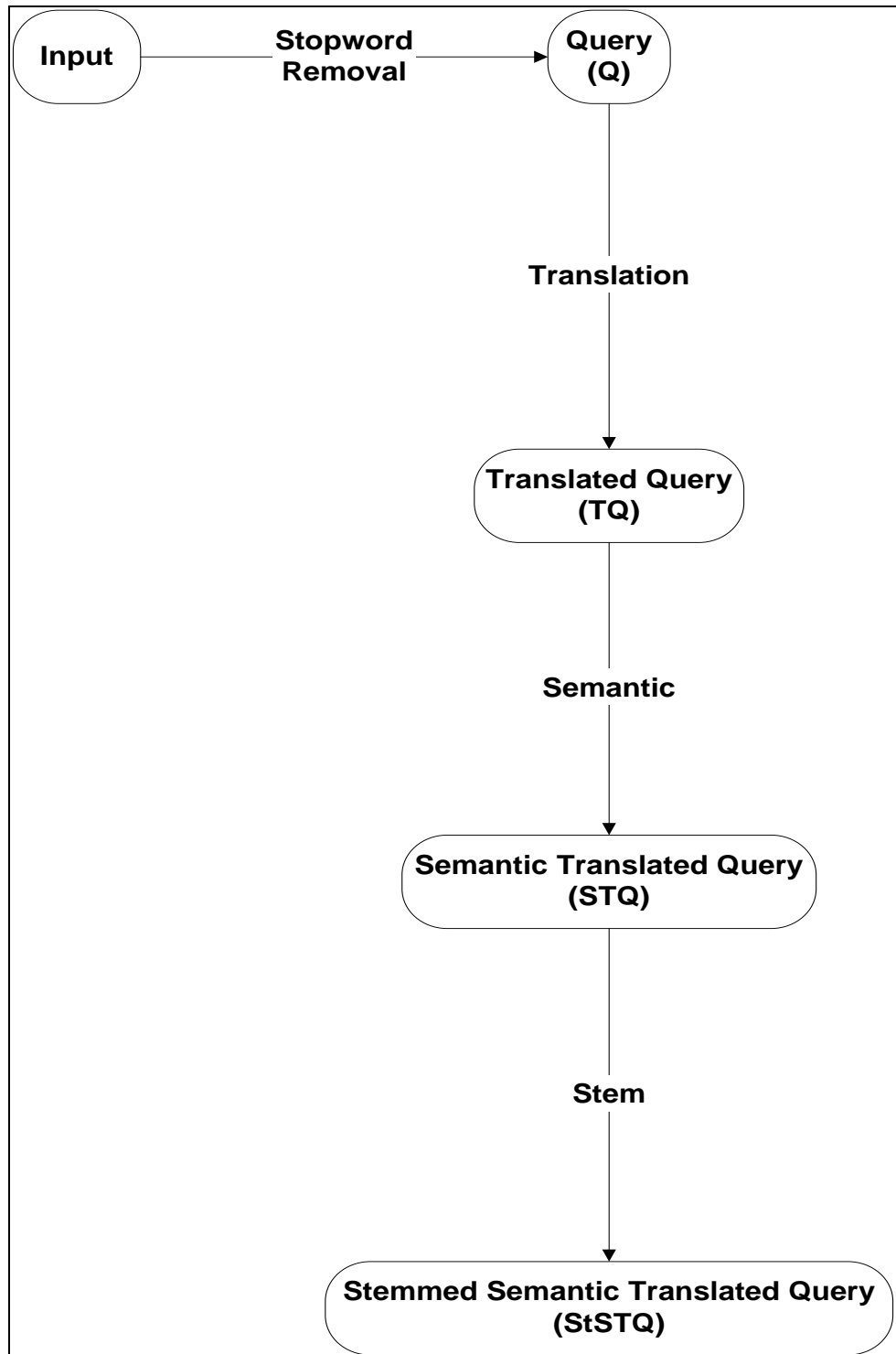


Figure 3.1 : The Extension Improvement General Process Flow for StSTQ

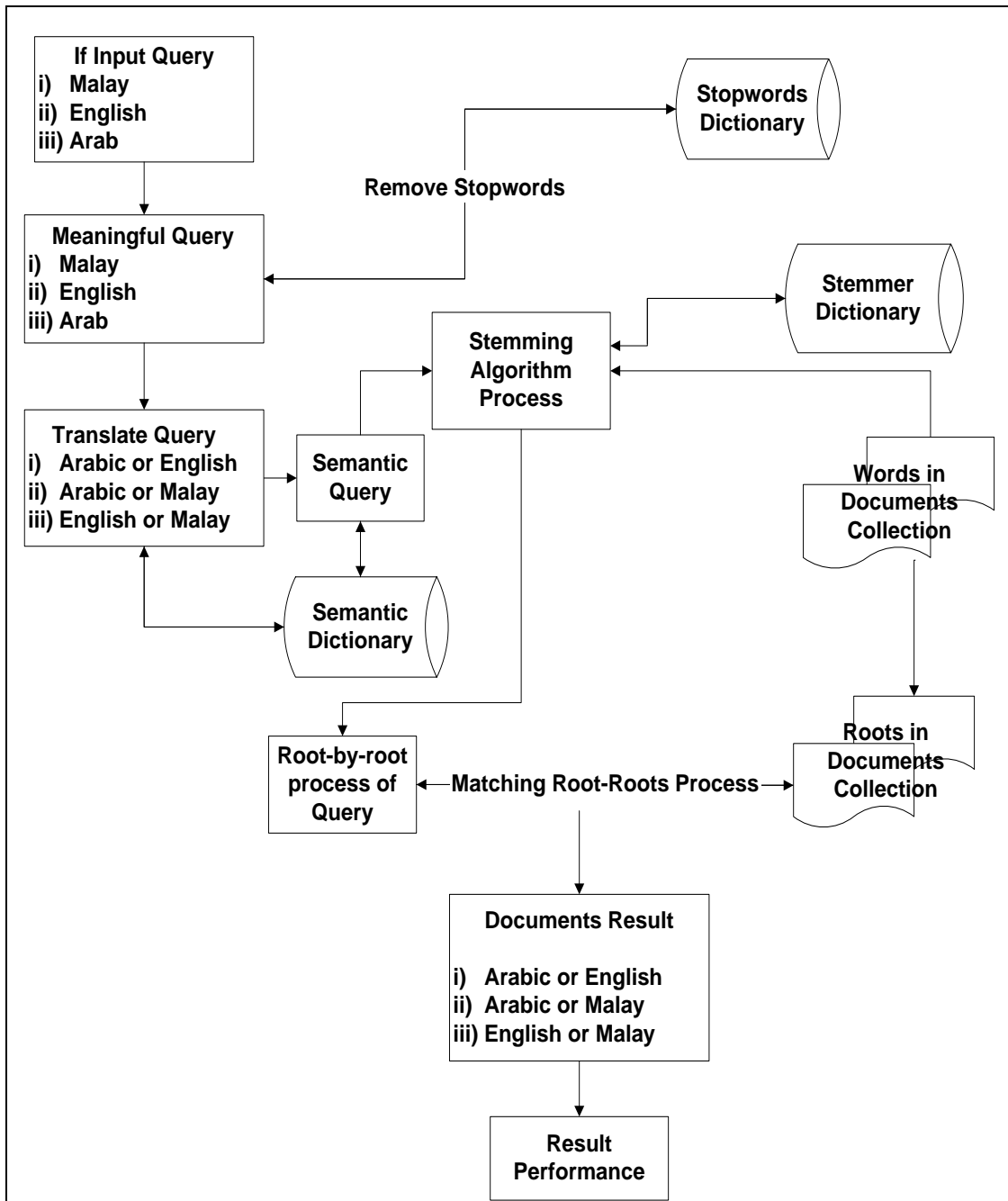


Figure 3.2 : Framework of StSTQ for Root-Roots Matching Process

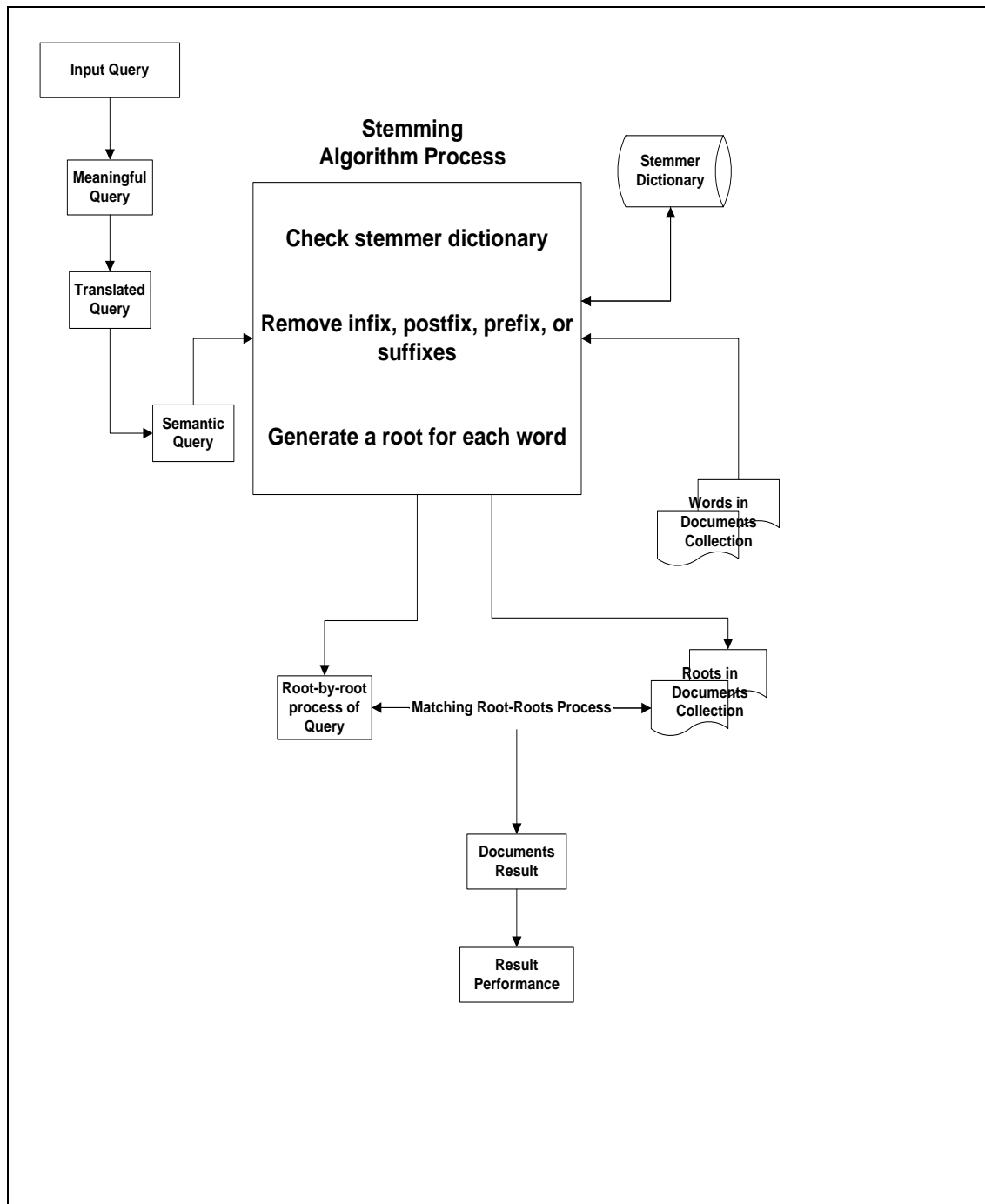


Figure 3.3 : The Stemming Algorithm Processes for StSTQ

Figure 3.4 shows the expanded query which is based on a single query, it starts with a source language of a single query (Q) to be translated into target queries or target languages (TQ1, TQ2, TQ3 ... TQn) that have different languages from the source

language as a single query. Each TQ has the last word represented as w_k in a target language. Each translated word from TQ1 that represents translated word 1 (w_1) until the last translated word (w_k) or ($w_1, w_2, w_3 \dots w_k$) has several semantic or synonym words, for example, w_1 in the TQ1 has several semantic or synonym words that represent synonym 1 (t_1) until the last synonym (t_l) or ($t_1, t_2, t_3 \dots t_l$) according to the related words in the semantic data in the dictionary. Each semantic translated word is stemmed for the purpose of retrieving Quran ayats (verses) that consist of the same root after comparing the word in the stemming dictionary. The collective words that consist of original and semantic words are stemmed ($r_1, r_2, r_3 \dots r_l$) and matched with the stemmed words of ayats (verses) in the documents to retrieve relevant multilingual verses.

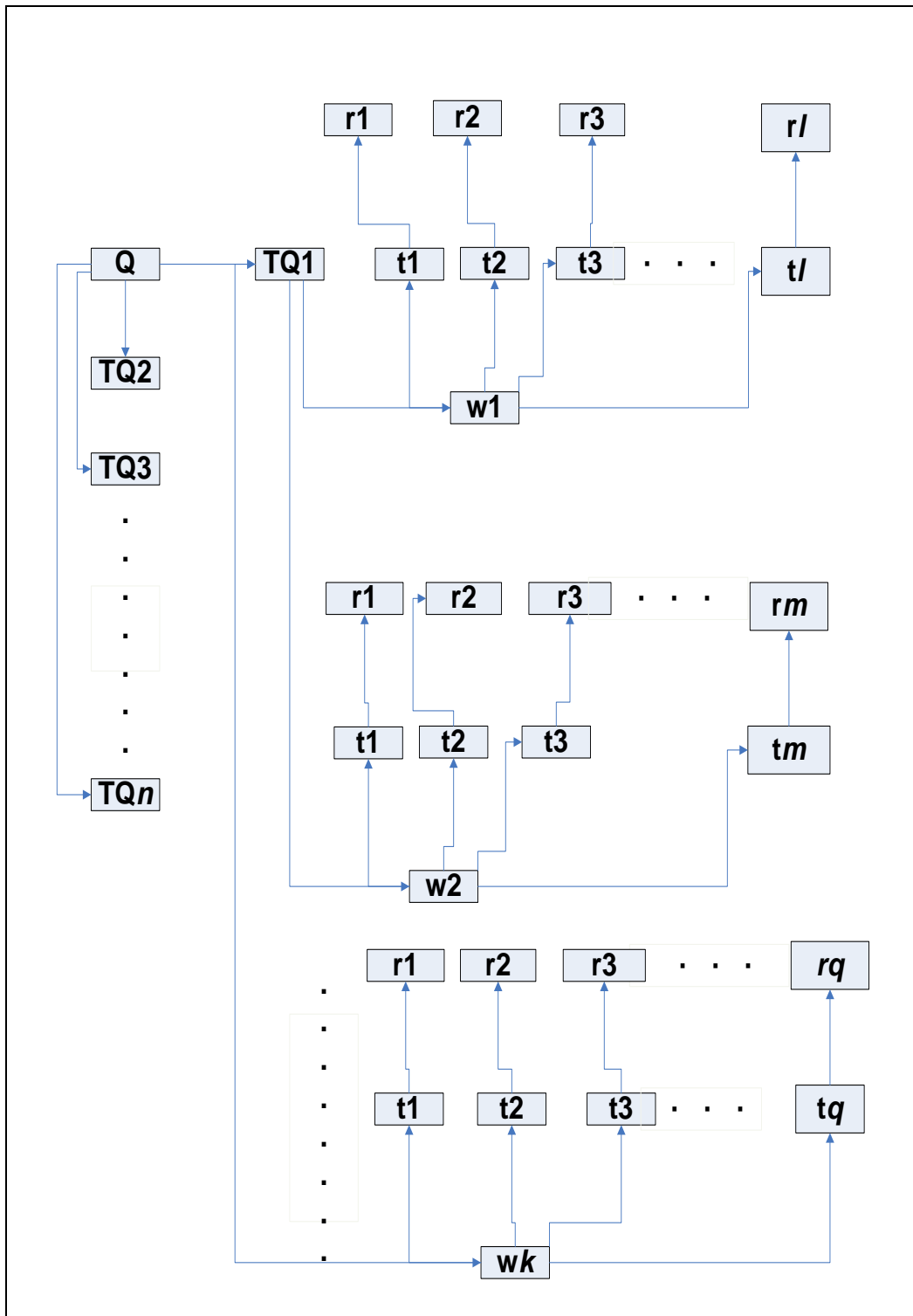


Figure 3.4 : The Process of Query Expansion of StSTQ

3.4.4 Evaluation

The results of empirical experiments were evaluated between the total system retrieval and total relevance judgment of each query from Ahmad (1995). Each query was expanded through the conflation of translation, semantic and stemming for evaluating

QR result of three types of query expansion techniques such as StSTQ (stemming the semantic for translated query), STQ (semantic for the translated query) and StTQ (Stemming the translated query). In the case of StSTQ, those relevant potential collective semantic or synonym words in the expanded translated query are stemmed and then matched with those stemmed words in documents or information in order to look for the relevant verses or ayats in the results. In the case of STQ, those relevant potential collective semantic or synonym words in the expanded translated query are matched with those words in documents or information in order to look for the relevant verses or ayats in the results. In the case of StTQ, those words in the translated query are stemmed and then matched with those stemmed words in documents or information in order to look for the relevant verses or ayats in the results. However, the focus of the study is to prove that StSTQ performance might be better than STQ and StTQ. QR results evaluation consists of word-by-word result from keyword (K) option or the phrase result from query words (Q) option. The QR results comes from Quran verses collections, in which one verse represents one document in classical Arabic, Malay and English language. When the query is in Malay, the words are translated into English or Arabic and vice versa. Then, the next process might either be StSTQ, STQ or StTQ. All the processes option in retrieving results are as shown in Figure 3.2 and 3.3. Then the comparison value will come out with precision and recall percentages evaluation (Salton & McGill, 1983). Precision and recall evaluation can be multiplied by 100% to get its percentages. The result can be displayed and visualized dynamically by SpaceTree (Plaisant et al., 2003).

Equation 1 and 2 show the formulae to calculate the percentage of precision and recall.

$$Recall(\%) = \frac{\text{Number of relevant documents retrieved}}{\text{Total number of relevant documents}} * 100 \quad (1)$$

$$Precision(\%) = \frac{\text{Number of relevant documents retrieved}}{\text{Total number of retrieved documents}} * 100 \quad (2)$$

Given a query (Q) has a total words which starts with word 1 until word k in the search field.

$$Q = \sum_{i=1}^k w_i = w_1 + w_2 + \dots + w_k \quad (3)$$

where \sum refers to text ‘summation’ implying ‘and’ as set of elements, rather than algebraic addition of numbers. Then, every word, w_i, w_{i+1}, \dots, w_k , has its own annotated words, as many as possibly available in the semantic dictionary. Thus, the total semantic words for w_1 , which is termed semantic translated query is represented as t_l in the experiments where each word has many synonym words as semantic 1 until semantic l can be obtained as in the equation 4.

$$w_i = \sum_{j=1}^l t_j = t_1 + t_2 + \dots + t_l \quad (4)$$

Iteratively, each word, w_i in a query again contributes their own semantic words, t_l where one word can yield a number of semantic words which depend on the words provided in the dictionary. This means that the total words of translated query (TQ) are extended with the addition to more annotated words which refer to lexical semantics dictionary, which has w_i as word 1 until k . Then each word is expanded to more synonyms, annotated and related words, as w_i has t_l . This means that the synonym

numbering starts with t_1 until t_l for w_i which results in the total semantic words in TQ1 w_i and its total synonyms as t_l .

On the other hand, equation 4 is also in the same track for counting the stemming of each annotated word, t_j in the query, which has the same total number with roots, r_j .

This means that each annotated word has one root, $t_l = r_j$. Therefore, the total words in StSTQ is represented by TQ1 which is query translation into one language and comprises the total of all, initial words (w_k), annotated words (w_1 has t_l , w_2 has t_m ,, w_k has t_q), roots, r_l, r_m, \dots, r_q as follows:

$$TQ1 = w_k + ((\sum_{j=1}^l t_j + r_l) + (\sum_{o=1}^m t_o + r_m) + \dots + (\sum_{h=1}^q t_h + r_q)) \quad (5)$$

It can be concluded that for Quran retrieval results, QR is the matching process between query expansion, StSTQ in TQn and Quran documents collection, QC comprises 6236 verses or documents in a complete Quran in a language. Therefore, TQ1, TQ2, or TQn has total verses of 6236. Thus, the total relevant result in QR is as follows,

$$QR = TQ1 \cap QC, \quad QR < 6236 \quad (6)$$

3.5 Summary

This chapter explains StSTQ thoroughly in which the Holy Quran, the Malay and English Quran translation documents are tested in the experiments. The multilingual stopwords were used to remove words in the query that are not relevant in the retrieving process. The lexical semantic dictionary was developed and it consists of Malay and English to translate a query and enhance the query to get the synonyms. StSTQ involves

three stemmers which stem multilingual synonyms according to each language in the query.

4.0 EXPERIMENTS, IMPLEMENTATION RESULTS AND ANALYSIS

4.1 Introduction

This chapter presents and discusses the results of the experiments, which were performed on the tested Quran text collections. Several experiments were successfully conducted in this study with Quran text collections through StSTQ technique. Experiment on stemmed and unstemmed English documents indicates the result comparisons of StTQ, STQ and StSTQ. Experiment on stemmed and unstemmed Arabic documents also shows comparisons between StTQ, STQ and StSTQ. Experiments on stemmed and unstemmed Malay documents explain the same comparisons result as well. Discussion of experimental results compares the three techniques; StTQ, STQ and StSTQ. Discussion of StSTQ in SpaceTree visualizes the results from the traditional presentation. The result is presented in the QR interfaces in English, Malay and Arabic. System experimental approach of StSTQ describes the step-by-step process of QR.

4.2 Experiment on Stemmed and Unstemmed English Documents

The experiment tested and evaluated Quran English ayats or verses translation collection. Three experiments were conducted to translate each Arabic and Malay query in English and to evaluate the performance of StSTQ, StTQ and STQ in QR based on precision and recall percentages. All the results are shown in Table 4.1, 4.2, 4.3 and 4.4; and the results are also presented in Figures 4.1 to 4.9 to better comprehend the tables. The tables show the comparison of performance of StSTQ, StTQ and STQ after translating 36 Arabic and Malay queries in English, retrieving the relevant verses from the Quran English translation verses collection, and obtaining precision and recall percentages of 36 queries. Each query has also resulted in comparison between

keywords (K) and querywords (Q) in order to evaluate their performance in each technique.

Table 4.1 Conflated Methods Comparison for Precision Percentages of English Documents for Query 1 to 20

Query No.	Precision (%) ENGLISH						CLIR		The Number of Matches ENGLISH					
	StSTQ		StTQ		STQ				StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
1	73.91	85.71	60.87	76.19	73.91	80.95	23	21	17	18	14	16	17	17
2	85.88	96.05	76.47	85.53	80.00	90.79	85	76	73	73	65	65	68	69
3	78.13	74.19	71.88	77.42	68.75	67.74	32	31	25	23	23	24	22	21
4	60.00	75.00	40.00	50.00	60.00	50.00	5	4	3	3	2	2	3	2
5	89.36	86.96	80.85	76.09	82.98	82.61	47	46	42	40	38	35	39	38
6	66.67	76.92	60.00	69.23	60.00	69.23	15	13	10	10	9	9	9	9
7	72.22	81.25	66.67	68.75	61.11	68.75	18	16	13	13	12	11	11	11
8	72.73	70.00	54.55	70.00	63.64	70.00	11	10	8	7	6	7	7	7
9	83.33	90.91	58.33	81.82	66.67	81.82	12	11	10	10	7	9	8	9
10	66.67	85.71	55.56	71.43	55.56	71.43	9	7	6	6	5	5	5	5
11	86.67	88.64	73.33	68.18	75.56	72.73	45	44	39	39	33	30	34	32
12	98.82	99.13	89.90	79.18	84.14	87.97	1267	1263	1252	1252	1139	1000	1066	1111
13	61.54	72.73	53.85	63.64	46.15	63.64	13	11	8	8	7	7	6	7
14	42.86	50.00	28.57	33.33	42.86	50.00	7	6	3	3	2	2	3	3
15	84.75	92.59	66.10	66.67	76.27	85.19	59	54	50	50	39	36	45	46
16	61.54	63.64	46.15	63.64	53.85	63.64	13	11	8	7	6	7	7	7
17	58.33	66.67	50.00	55.56	50.00	66.67	12	9	7	6	6	5	6	6
18	65.38	73.91	50.00	60.87	61.54	65.22	26	23	17	17	13	14	16	15
19	85.71	89.13	73.47	80.43	71.43	78.26	49	46	42	41	36	37	35	36
20	72.22	81.25	66.67	68.75	61.11	75.00	18	16	13	13	12	11	11	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

Table 4.2 Conflated Methods Comparison for Precision Percentages of English Documents for Query 21 to 36

Query No.	Precision (%) ENGLISH						CLIR		The Number of Matches ENGLISH					
	StSTQ		StTQ		STQ				StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRT)	Q (TRT)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
21	92.66	95.28	84.40	85.85	79.82	86.79	109	106	101	101	92	91	87	92
22	71.43	83.33	57.14	75.00	71.43	75.00	14	12	10	10	8	9	10	9
23	88.37	91.57	69.77	65.06	80.23	75.90	86	83	76	76	60	54	69	63
24	82.86	85.29	80.00	73.53	77.14	79.41	35	34	29	29	28	25	27	27
25	50.00	100.00	50.00	100.00	50.00	100.00	2	1	1	1	1	1	1	1
26	96.58	96.81	68.22	69.78	85.82	85.75	409	407	395	394	279	284	351	349
27	96.55	97.82	71.55	74.67	77.59	86.46	232	229	224	224	166	171	180	198
28	98.21	98.56	71.38	70.92	88.37	79.35	559	557	549	549	399	395	494	442
29	94.96	97.41	81.51	78.45	80.67	85.34	119	116	113	113	97	91	96	99
30	89.90	91.75	68.69	74.23	72.73	78.35	99	97	89	89	68	72	72	76
31	64.00	69.57	52.00	52.17	56.00	60.87	25	23	16	16	13	12	14	14
32	94.82	95.75	76.05	67.32	77.35	77.78	309	306	293	293	235	206	239	238
33	53.85	63.64	46.15	54.55	53.85	54.55	13	11	7	7	6	6	7	6
34	91.57	93.83	68.67	75.31	83.13	81.48	83	81	76	76	57	61	69	66
35	81.40	85.37	67.44	68.29	69.77	78.05	43	41	35	35	29	28	30	32
36	76.92	81.82	53.85	72.73	69.23	81.82	13	11	10	9	7	8	9	9
Average:	77.52	84.12	63.61	70.13	68.57	75.24								

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

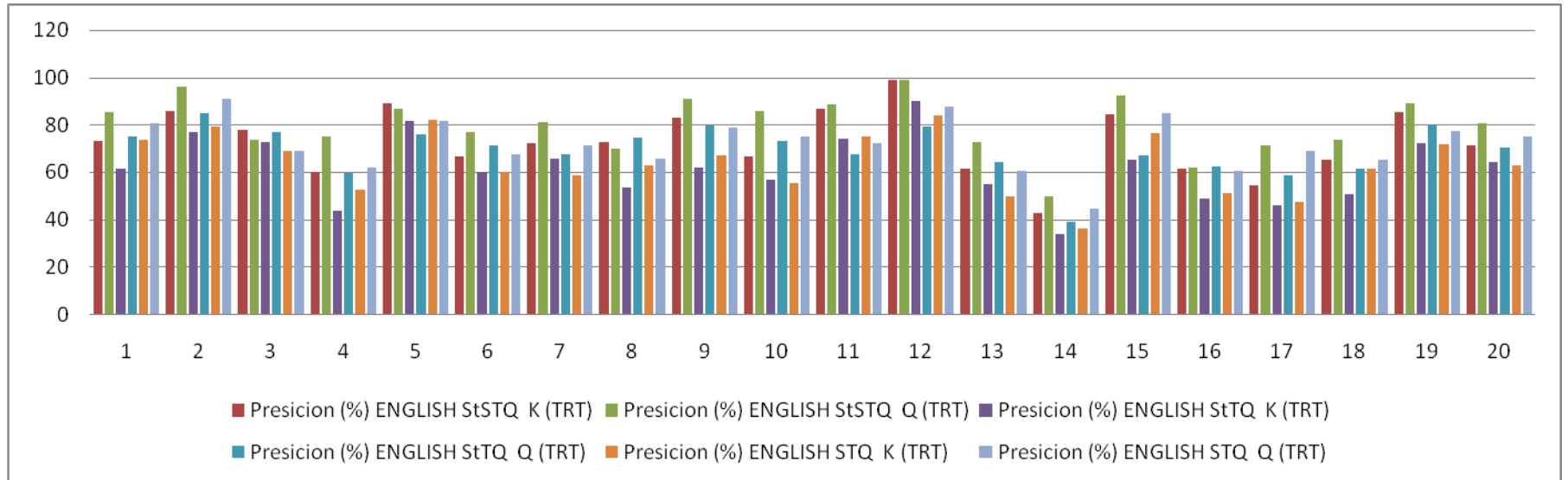


Figure 4.1: Conflated Methods Comparison for Precision Percentages of English Documents for Query 1 to 20

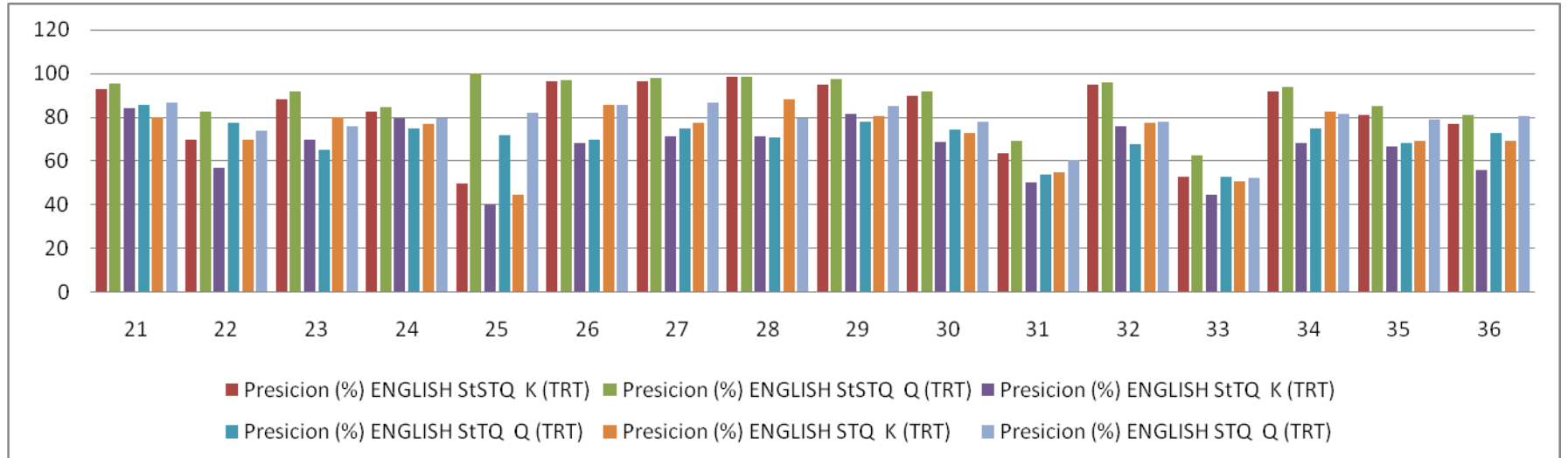


Figure 4.2: Conflated Methods Comparison for Precision Percentages of English Documents for Query 21 to 36

Table 4.3 Conflated Methods Comparison for Recall Percentages of English Documents for Query 1 to 20

Query No.	Recall (%) ENGLISH						CLIR TRE (MS)	The Number of Matches ENGLISH					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)		K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
1	89.47	94.74	73.68	84.21	89.47	89.47	19	17	18	14	16	17	17
2	98.65	98.65	87.84	87.84	91.89	93.24	74	73	73	65	65	68	69
3	96.15	88.46	88.46	92.31	84.62	80.77	26	25	23	23	24	22	21
4	100.00	100.00	66.67	66.67	100.00	66.67	3	3	3	2	2	3	2
5	97.67	93.02	88.37	81.40	90.70	88.37	43	42	40	38	35	39	38
6	100.00	100.00	90.00	90.00	90.00	90.00	10	10	10	9	9	9	9
7	100.00	100.00	92.31	84.62	84.62	84.62	13	13	13	12	11	11	11
8	100.00	87.50	75.00	87.50	87.50	87.50	8	8	7	6	7	7	7
9	100.00	100.00	70.00	90.00	80.00	90.00	10	10	10	7	9	8	9
10	100.00	100.00	83.33	83.33	83.33	83.33	6	6	6	5	5	5	5
11	100.00	100.00	84.62	76.92	87.18	82.05	39	39	39	33	30	34	32
12	100.00	100.00	90.97	79.87	85.14	88.74	1252	1252	1252	1139	1000	1066	1111
13	100.00	100.00	87.50	87.50	75.00	87.50	8	8	8	7	7	6	7
14	100.00	100.00	66.67	66.67	100.00	100.00	3	3	3	2	2	3	3
15	98.04	98.04	76.47	70.59	88.24	90.20	51	50	50	39	36	45	46
16	100.00	87.50	75.00	87.50	87.50	87.50	8	8	7	6	7	7	7
17	100.00	85.71	85.71	71.43	85.71	85.71	7	7	6	6	5	6	6
18	94.44	94.44	72.22	77.78	88.89	83.33	18	17	17	13	14	16	15
19	97.67	95.35	83.72	86.05	81.40	83.72	43	42	41	36	37	35	36
20	92.86	92.86	85.71	78.57	78.57	85.71	14	13	13	12	11	11	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

Table 4.4 Conflated Methods Comparison for Recall Percentages of English Documents for Query 21 to 36

Query No.	Recall (%) ENGLISH						CLIR TRE (MS)	The Number of Matches ENGLISH					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)		K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
21	99.02	99.02	90.20	89.22	85.29	90.20	102	101	101	92	91	87	92
22	90.91	90.91	72.73	81.82	90.91	81.82	11	10	10	8	9	10	9
23	98.70	98.70	77.92	70.13	89.61	81.82	77	76	76	60	54	69	63
24	93.55	93.55	90.32	80.65	87.10	87.10	31	29	29	28	25	27	27
25	100.00	100.00	100.00	100.00	100.00	100.00	1	1	1	1	1	1	1
26	100.00	99.75	70.63	71.90	88.86	88.35	395	395	394	279	284	351	349
27	99.56	99.56	73.78	76.00	80.00	88.00	225	224	224	166	171	180	198
28	99.82	99.82	72.55	71.82	89.82	80.36	550	549	549	399	395	494	442
29	99.12	99.12	85.09	79.82	84.21	86.84	114	113	113	97	91	96	99
30	98.89	98.89	75.56	80.00	80.00	84.44	90	89	89	68	72	72	76
31	94.12	94.12	76.47	70.59	82.35	82.35	17	16	16	13	12	14	14
32	99.66	99.66	79.93	70.07	81.29	80.95	294	293	293	235	206	239	238
33	87.50	87.50	75.00	75.00	87.50	75.00	8	7	7	6	6	7	6
34	98.70	98.70	74.03	79.22	89.61	85.71	77	76	76	57	61	69	66
35	97.22	97.22	80.56	77.78	83.33	88.89	36	35	35	29	28	30	32
36	100.00	90.00	70.00	80.00	90.00	90.00	10	10	9	7	8	9	9
Average:	97.83	96.19	80.25	80.13	86.93	86.12							

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

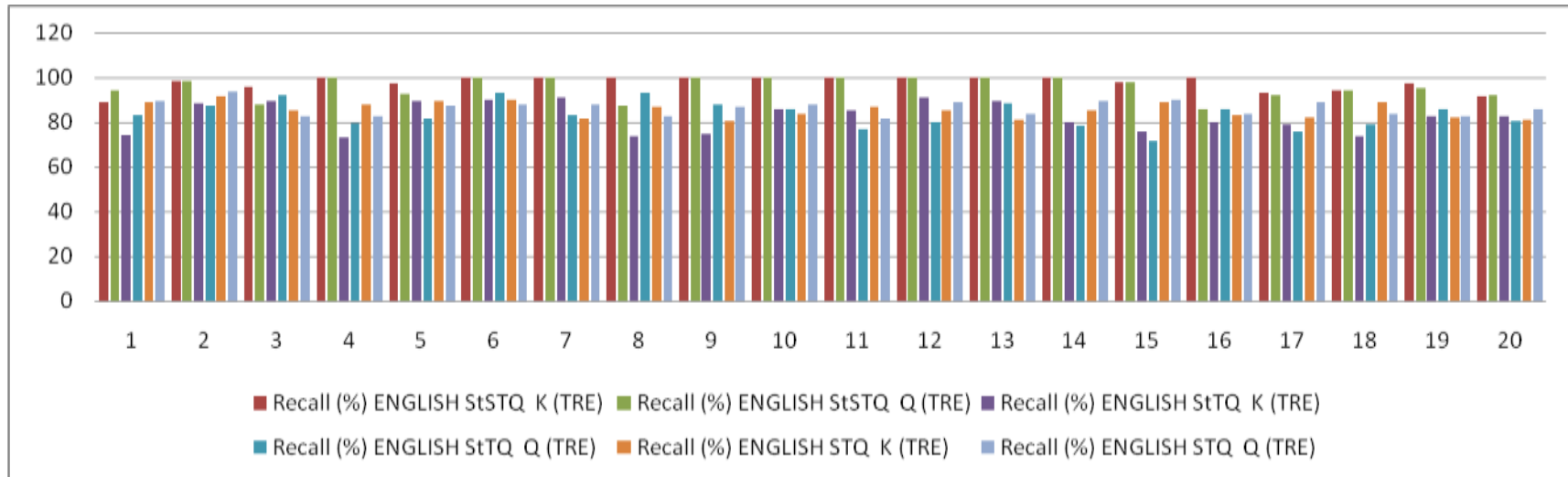


Figure 4.3: Conflated Methods Comparison for Recall Percentages of English Documents for Query 1 to 20

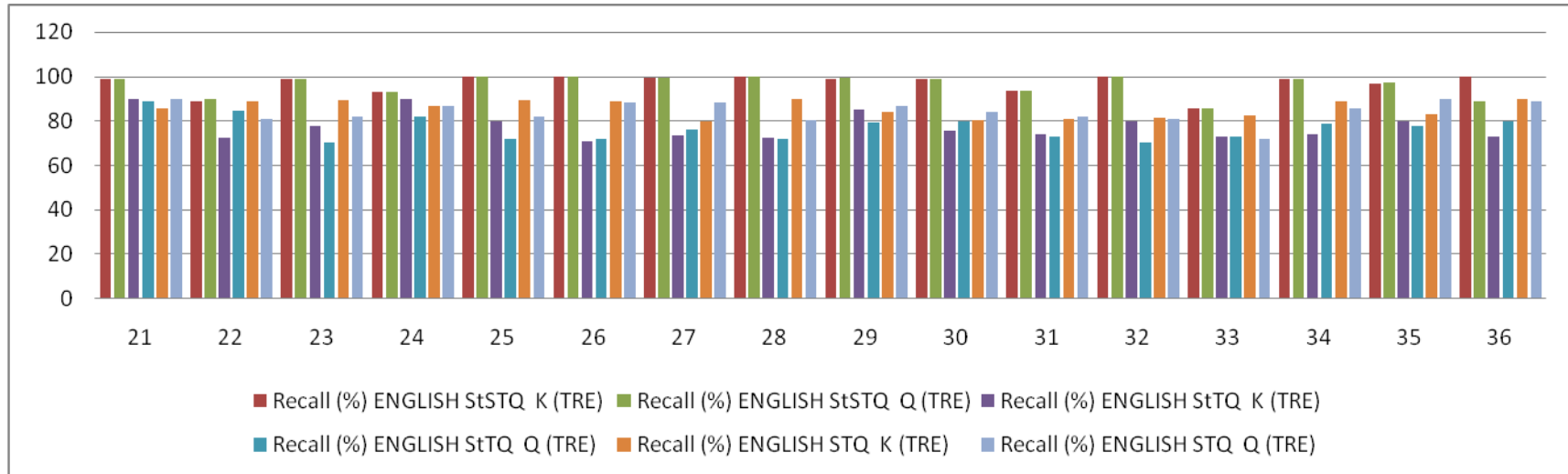


Figure 4.4: Conflated Methods Comparison for Recall Percentages of English Documents for Query 21 to 36

Technically, StSTQ is a better technique than StTQ and STQ because 18 of the 36 queries in K and 25 queries in Q have more than 80% in precision. All queries in both K and Q have exceeded 80% in recall. Meanwhile, StTQ with 5 queries in K and 5 in Q have more than 80% precision. 17 queries in K and 18 queries in Q have more than 80% in recall. STQ with 8 queries in K and 12 in Q have more than 80% precision. 34 queries in K and 34 queries in Q have more than 80% in recall. This also indicates that the recall percentages are higher than precision because it has a total relevant ayats or verses (total of manual search) which is less than total retrieval ayats (total of QR system) as shown in Figure 4.8 and 4.9. Q shows higher percentages of 36 queries in precision and recall than K in Figure 4.5 until 4.7 for all techniques.

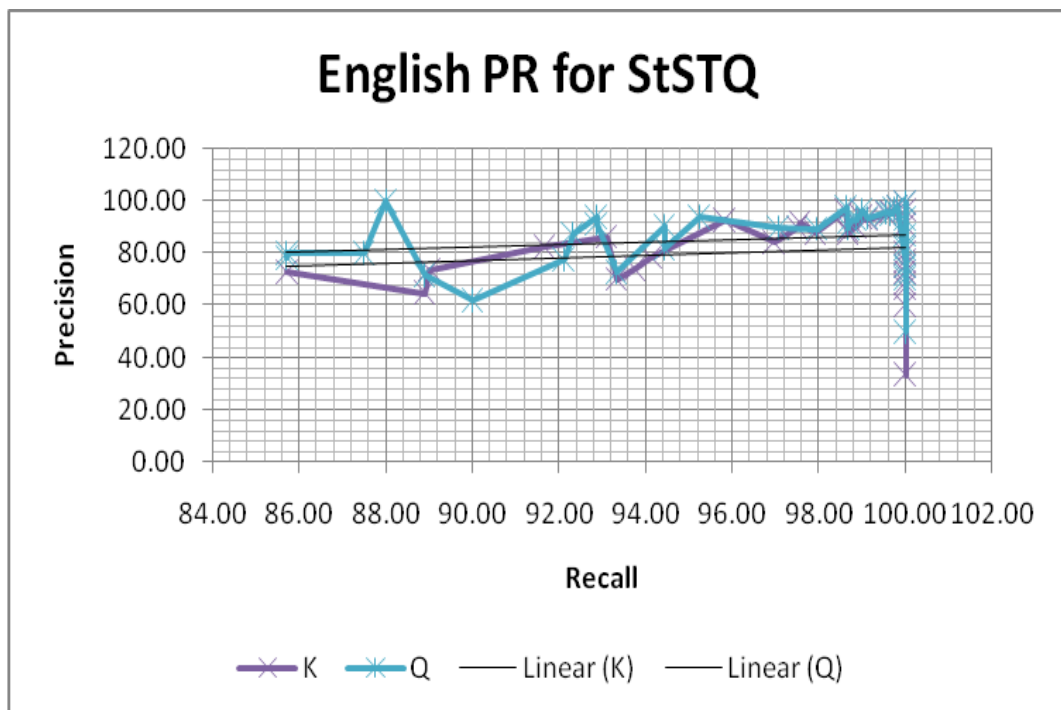


Figure 4.5: The Precision against Recall Percentage for StSTQ on English

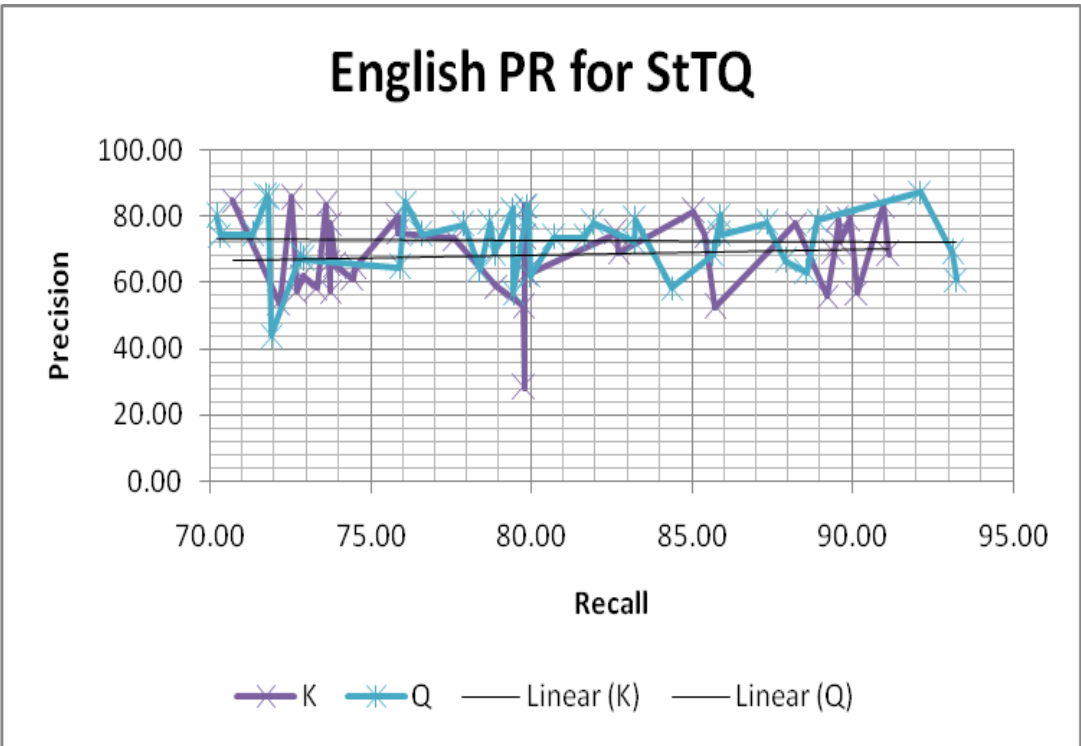


Figure 4.6: The Precision against Recall Percentage for StTQ on English

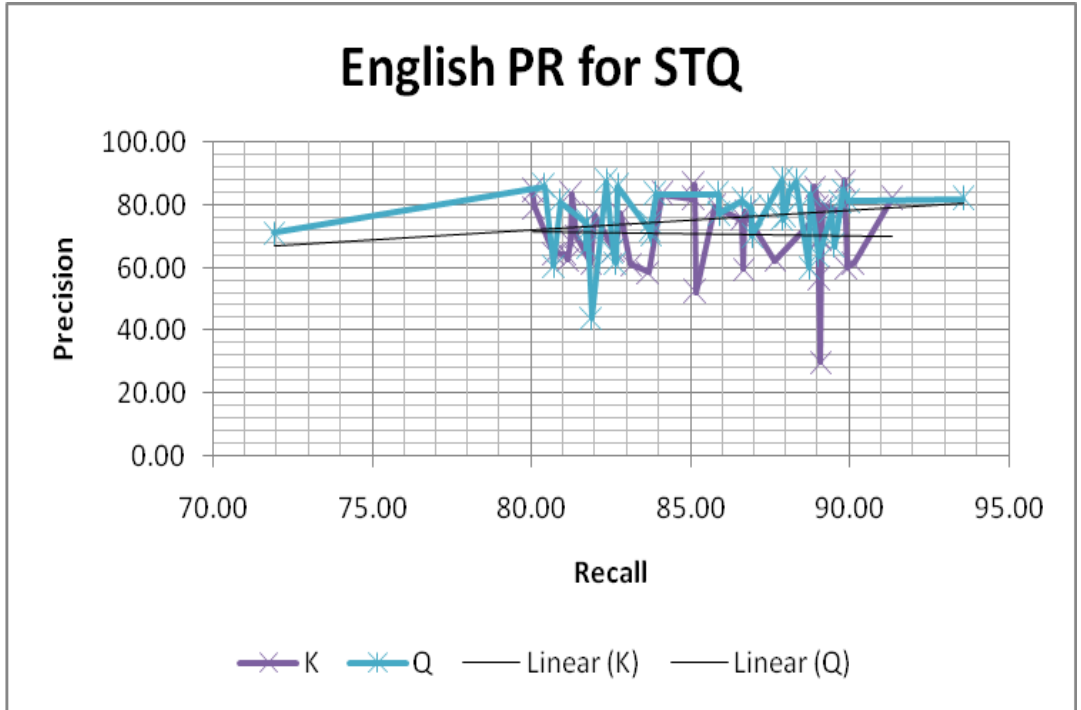


Figure 4.7: The Precision against Recall Percentage for STQ on English

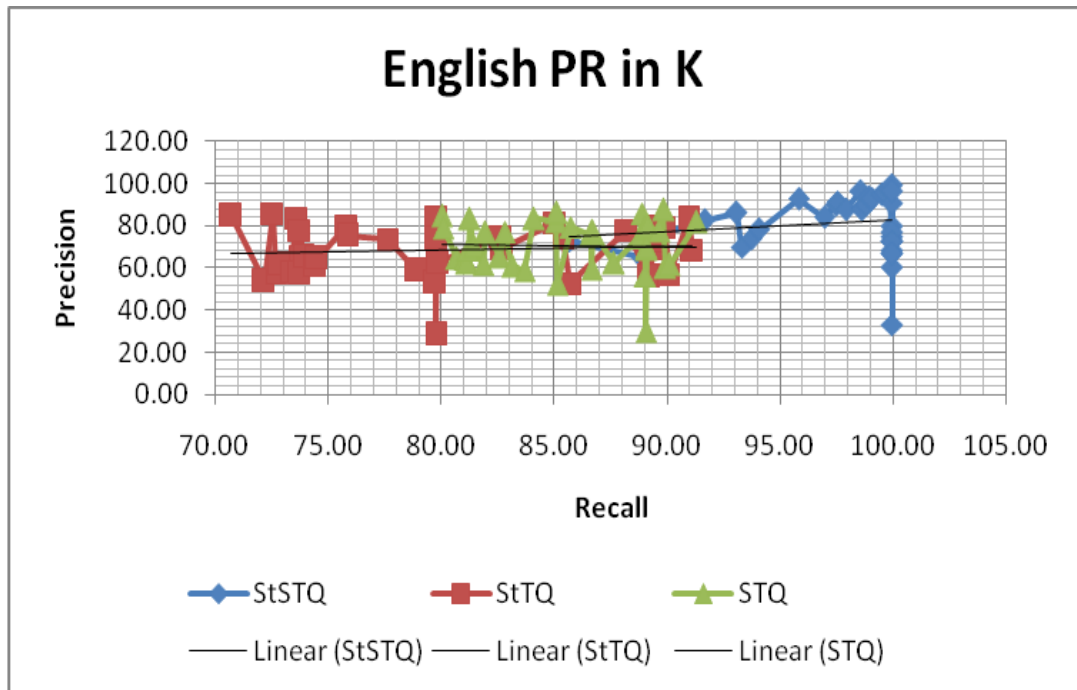


Figure 4.8: The Precision against Recall Percentage for StSTQ, StTQ and STQ in K of English

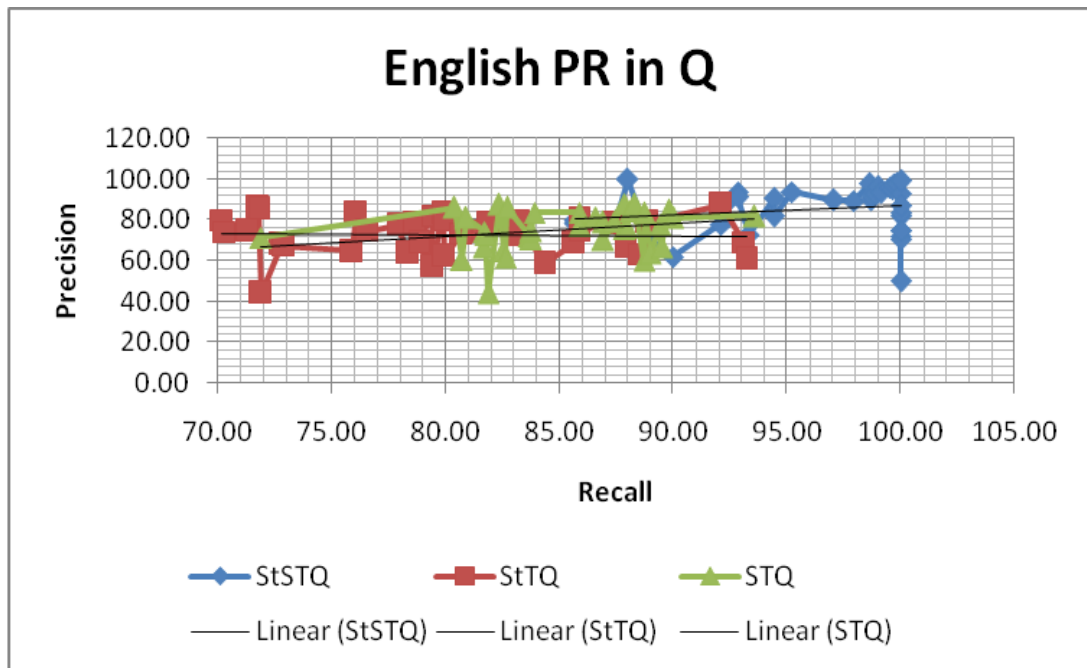


Figure 4.9: The Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of English

Figure 4.5 shows the Precision against Recall Percentage for StSTQ on English and it is evident that many plots in Q are higher than K. The best coordinate in Q is 100 for precision and recall. Upon observing the linear graph for K and Q, the values or plots for both of them are increasing. Figure 4.6 shows the Precision against Recall Percentage for StTQ on English and many plots in Q are apparently higher than K. The

best coordinate in Q is 88% for precision and 93% for recall. Examining the linear graph for K and Q, the values or plots of K are increasing than Q. Figure 4.7 on the Precision against Recall Percentage for STQ on English shows that many plots in Q are higher than K. The best coordinate in Q is 88% for precision and recall. The linear graph for K and Q shows that the values or plots for Q are increasing than K.

Figure 4.8 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in K of English and the highest coordinate values of precision and recall refer to the StSTQ which is almost 100% compared to StTQ and STQ. From the graph pattern, the values for StSTQ are higher and increasing with precision and recall of 84% and 100% respectively compared to StTQ and STQ. Figure 4.9 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of English and the highest coordinate values of precision and recall refer to the StSTQ which are almost 100% than StTQ and STQ. Looking at the graph pattern, values for StSTQ are higher and increasing with precision and recall of 88% and 100% than StTQ and STQ.

4.3 Experiment on Stemmed and Unstemmed Arabic Documents

The experiments have also tested and evaluated Quran Arabic ayats or verses translation collection. Three experiments were conducted to translate 36 Malay and English queries in Arabic based on StSTQ, StTQ and STQ and the evaluation is in precision and recall percentages analysis. All results are presented in Table 4.5, 4.6, 4.7 and 4.8 and Figures 4.10 to 4.18. The tables and figures show the results comparison performance of StSTQ, StTQ and STQ to retrieve the relevant verses from the Quran English translation and to obtain precision and recall percentages of 36 queries. QR processes each query based on keywords (K) and querywords (Q) and evaluates their performances for each technique. Technically, StSTQ is a better technique than StTQ and STQ. 21 of 36 queries in K and 26 in Q have more than 80% precision. All queries in both K and Q have exceeded

80% in recall. StTQ with 3 queries in K and 4 in Q have more than 80% precision. 13 queries in K and 14 queries in Q have more than 80% in recall. STQ with 6 queries in K and 15 in Q have more than 80% precision. 31 queries in K and 33 queries in Q have more than 80% in recall. This means that the recall percentages are better than precision because the total relevant ayats or verses is less than only total retrieval ayats as shown in Figure 4.17 and 4.18. Q has better percentages in precision and recall than K in Figure 4.14 until 4.16 for all techniques.

Table 4.5 Conflated Methods Comparison for Precision Percentages of Arabic Document Precision for Query 1 to 20

Query No.	Precision (%)						The Number of Matches							
	ARABIC						CLIR		ARABIC					
	StSTQ		StTQ		STQ				StSTQ		StTQ		STQ	
K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRT)	Q (TRT)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	
1	81.82	85.71	72.73	76.19	72.73	81.43	22	21	18	18	16	16	16	17
2	87.95	94.81	69.88	71.43	73.49	78.81	83	77	73	73	58	55	61	61
3	82.76	92.59	65.52	70.37	75.86	79.93	29	27	24	25	19	19	22	22
4	75.00	100.00	50.00	66.67	50.00	87.00	4	3	3	3	2	2	2	3
5	87.50	93.33	64.58	68.89	79.17	78.36	48	45	42	42	31	31	38	35
6	71.43	81.82	50.00	63.64	57.14	75.45	14	11	10	9	7	7	8	8
7	86.67	92.31	60.00	76.92	73.33	89.00	15	13	13	12	9	10	11	12
8	61.54	72.73	46.15	54.55	53.85	61.09	13	11	8	8	6	6	7	7
9	64.29	75.00	57.14	58.33	64.29	70.00	14	12	9	9	8	7	9	8
10	75.00	75.00	50.00	50.00	62.50	54.00	8	8	6	6	4	4	5	4
11	88.64	88.37	68.18	65.12	77.27	75.28	44	43	39	38	30	28	34	32
12	99.13	99.29	72.37	71.45	83.29	83.40	1263	1261	1252	1252	914	901	1052	1052
13	63.64	42.11	54.55	36.84	63.64	34.95	11	19	7	8	6	7	7	7
14	60.00	75.00	40.00	50.00	40.00	61.50	5	4	3	3	2	2	2	2
15	89.29	98.08	71.43	73.08	78.57	82.38	56	52	50	51	40	38	44	43
16	75.00	72.73	50.00	54.55	50.00	60.36	12	11	9	8	6	6	6	7
17	46.15	87.50	46.15	62.50	46.15	70.88	13	8	6	7	6	5	6	6
18	70.83	80.95	54.17	61.90	62.50	75.43	24	21	17	17	13	13	15	16
19	95.45	95.35	70.45	72.09	81.82	82.00	44	43	42	41	31	31	36	35
20	86.67	100.00	73.33	76.92	66.67	89.38	15	13	13	13	11	10	10	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

Table 4.6 Conflated Methods Comparison for Precision Percentages of Arabic Document Precision for Query 21 to 36

Query No.	Precision (%)						CLIR		The Number of Matches					
	ARABIC								ARABIC					
	StSTQ		StTQ		STQ		K (TRR)	Q (TRR)	StSTQ		StTQ		STQ	
K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRT)	Q (TRT)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	
21	97.09	98.02	82.52	73.27	82.52	84.16	103	101	100	99	85	74	85	85
22	73.33	78.57	60.00	64.29	66.67	64.29	15	14	11	11	9	9	10	9
23	88.51	89.41	64.37	76.47	73.56	81.18	87	85	77	76	56	65	64	69
24	81.08	85.71	64.86	71.43	70.27	74.29	37	35	30	30	24	25	26	26
25	50.00	50.00	50.00	50.00	50.00	50.00	2	2	1	1	1	1	1	1
26	98.26	98.75	71.64	77.00	85.57	83.00	402	400	395	395	288	308	344	332
27	94.94	96.57	74.26	80.26	78.90	80.26	237	233	225	225	176	187	187	187
28	97.69	98.04	83.13	80.39	81.17	81.46	563	561	550	550	468	451	457	457
29	93.44	95.00	77.87	80.00	77.87	79.17	122	120	114	114	95	96	95	95
30	87.25	89.00	72.55	77.00	75.49	79.00	102	100	89	89	74	77	77	79
31	59.26	62.50	51.85	62.50	55.56	62.50	27	24	16	15	14	15	15	15
32	95.77	96.08	83.39	70.26	80.46	80.72	307	306	294	294	256	215	247	247
33	80.00	77.78	60.00	66.67	60.00	66.67	10	9	8	7	6	6	6	6
34	92.68	95.00	71.95	78.75	76.83	80.00	82	80	76	76	59	63	63	64
35	82.93	87.18	73.17	74.36	70.73	74.36	41	39	34	34	30	29	29	29
36	60.00	90.00	53.33	80.00	53.33	80.00	15	10	9	9	8	8	8	8
Average:	80.03	85.84	63.38	67.89	68.09	74.49								

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

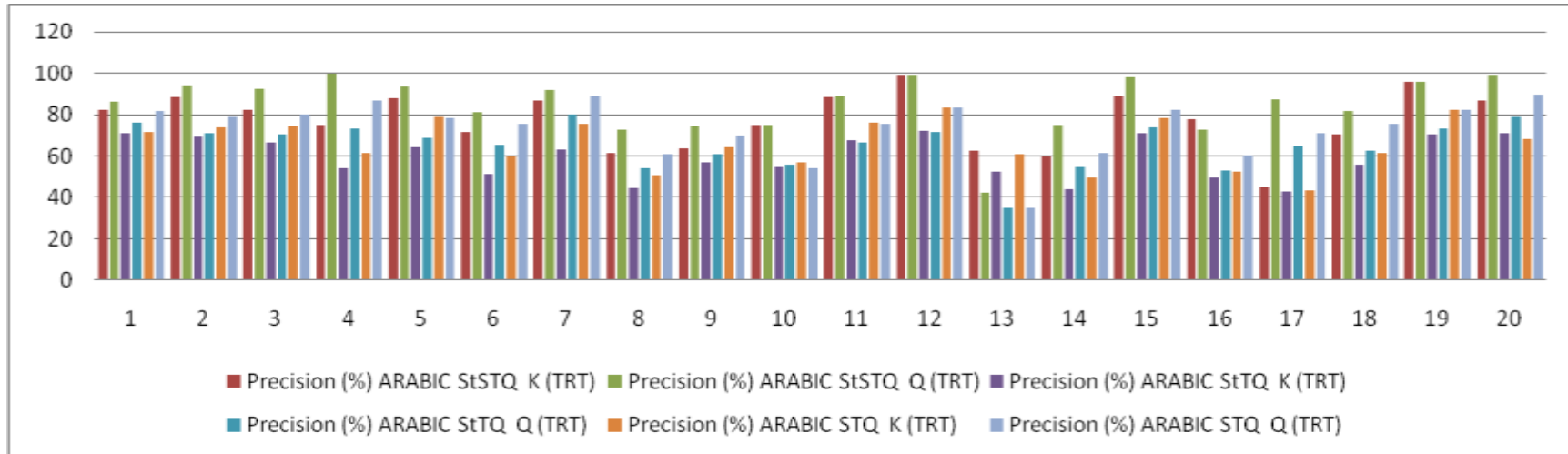


Figure 4.10: Conflated Methods Comparison for Precision Percentages of Arabic Documents for Query 1 to 20

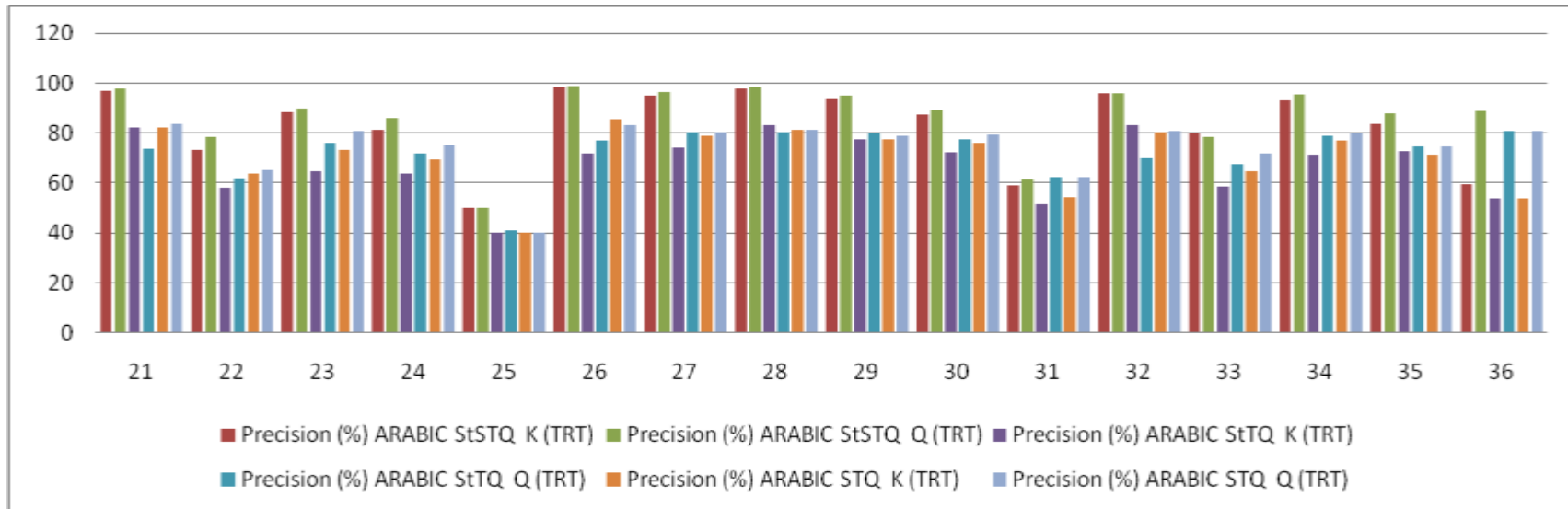


Figure 4.11: Conflated Methods Comparison for Precision Percentages of Arabic Documents for Query 21 to 36

Table 4.7 Conflated Methods Comparison for Recall Percentages of Arabic Document for Query 1 to 20

Query No.	Recall (%) ARABIC						CLIR TRE (MS)	The Number of Matches ARABIC					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)		K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
1	94.74	94.74	84.21	84.21	84.21	89.47	19	18	18	16	16	16	17
2	98.65	98.65	78.38	74.32	82.43	82.43	74	73	73	58	55	61	61
3	92.31	96.15	73.08	73.08	84.62	84.62	26	24	25	19	19	22	22
4	100.00	100.00	66.67	66.67	66.67	100.00	3	3	3	2	2	2	3
5	97.67	97.67	72.09	72.09	88.37	81.40	43	42	42	31	31	38	35
6	100.00	90.00	70.00	70.00	80.00	80.00	10	10	9	7	7	8	8
7	100.00	92.31	69.23	76.92	84.62	92.31	13	13	12	9	10	11	12
8	100.00	100.00	75.00	75.00	87.50	87.50	8	8	8	6	6	7	7
9	90.00	90.00	80.00	70.00	90.00	80.00	10	9	9	8	7	9	8
10	100.00	100.00	66.67	66.67	83.33	66.67	6	6	6	4	4	5	4
11	100.00	97.44	76.92	71.79	87.18	82.05	39	39	38	30	28	34	32
12	100.00	100.00	73.00	71.96	84.03	84.03	1252	1252	1252	914	901	1052	1052
13	87.50	100.00	75.00	87.50	87.50	87.50	8	7	8	6	7	7	7
14	100.00	100.00	66.67	66.67	66.67	66.67	3	3	3	2	2	2	2
15	98.04	100.00	78.43	74.51	86.27	84.31	51	50	51	40	38	44	43
16	100.00	100.00	75.00	75.00	75.00	87.50	8	9	8	6	6	6	7
17	85.71	100.00	85.71	71.43	85.71	85.71	7	6	7	6	5	6	6
18	94.44	94.44	72.22	72.22	83.33	88.89	18	17	17	13	13	15	16
19	97.67	95.35	72.09	72.09	83.72	81.40	43	42	41	31	31	36	35
20	92.86	92.86	78.57	71.43	71.43	85.71	14	13	13	11	10	10	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

Table 4.8 Conflated Methods Comparison for Recall Percentages of Arabic Document for Query 21 to 36

Query No.	Recall (%) ARABIC						CLIR TRE (MS)	The Number of Matches ARABIC					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)		K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)
21	98.04	97.06	83.33	72.55	83.33	83.33	102	100	99	85	74	85	85
22	100.00	100.00	81.82	81.82	90.91	81.82	11	11	11	9	9	10	9
23	100.00	98.70	72.73	84.42	83.12	89.61	77	77	76	56	65	64	69
24	96.77	96.77	77.42	80.65	83.87	83.87	31	30	30	24	25	26	26
25	100.00	100.00	100.00	100.00	100.00	100.00	1	1	1	1	1	1	1
26	100.00	100.00	72.91	77.97	87.09	84.05	395	395	395	288	308	344	332
27	100.00	100.00	78.22	83.11	83.11	83.11	225	225	225	176	187	187	187
28	100.00	100.00	85.09	82.00	83.09	83.09	550	550	550	468	451	457	457
29	100.00	100.00	83.33	84.21	83.33	83.33	114	114	114	95	96	95	95
30	98.89	98.89	82.22	85.56	85.56	87.78	90	89	89	74	77	77	79
31	94.12	88.24	82.35	88.24	88.24	88.24	17	16	15	14	15	15	15
32	100.00	100.00	87.07	73.13	84.01	84.01	294	294	294	256	215	247	247
33	100.00	87.50	75.00	75.00	75.00	75.00	8	8	7	6	6	6	6
34	98.70	98.70	76.62	81.82	81.82	83.12	77	76	76	59	63	63	64
35	94.44	94.44	83.33	80.56	80.56	80.56	36	34	34	30	29	29	29
36	90.00	90.00	80.00	80.00	80.00	80.00	10	9	9	8	8	8	8
Average:	97.24	96.94	77.51	77.07	83.21	84.14							

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

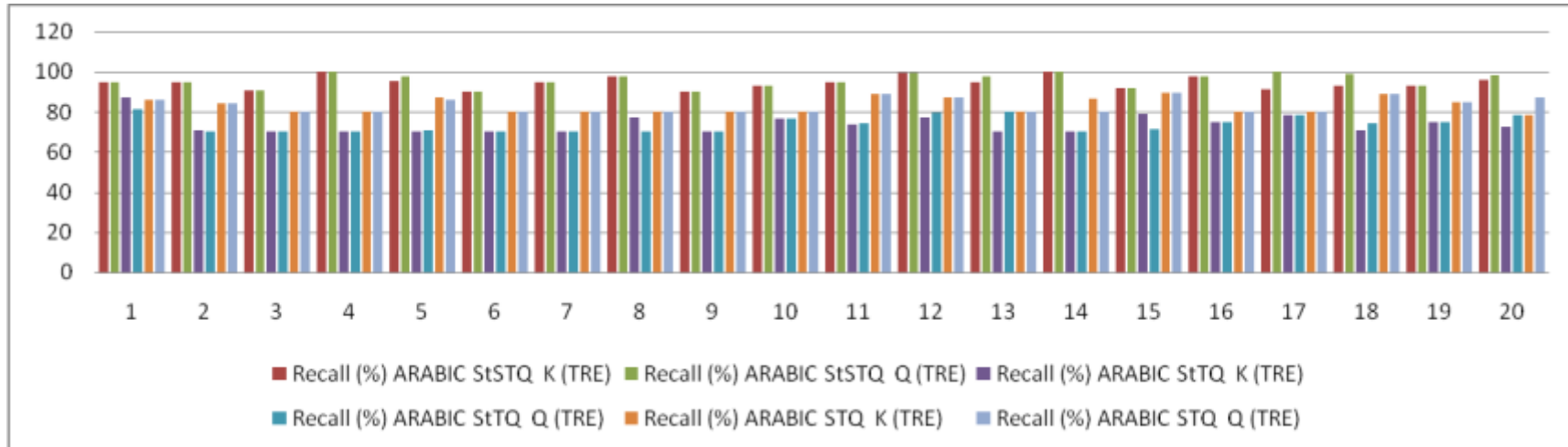


Figure 4.12: Conflated Methods Comparison for Recall Percentages of Arabic Document for Query 1 to 20

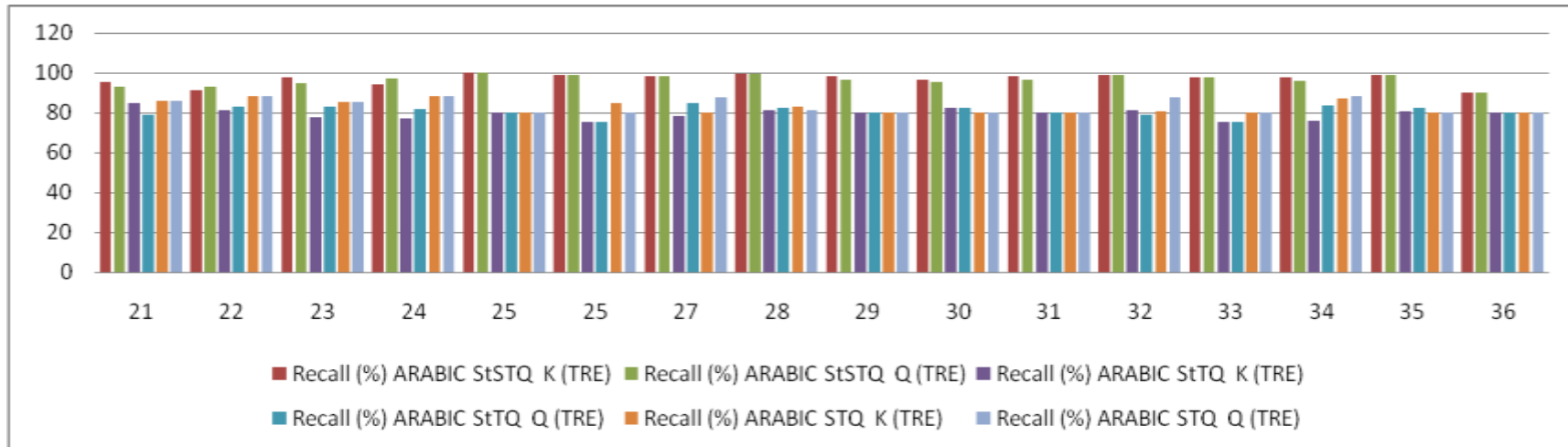


Figure 4.13: Conflated Methods Comparison for Recall Percentages of Arabic Document for Query 21 to 36

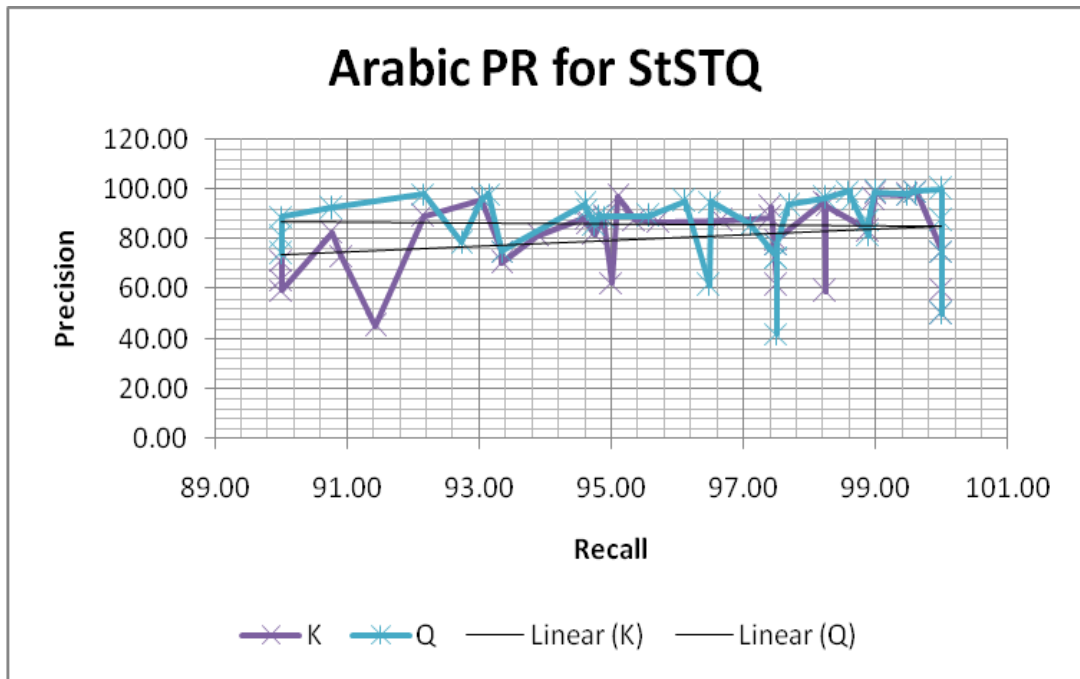


Figure 4.14: The Precision against Recall Percentage for StSTQ in Arabic

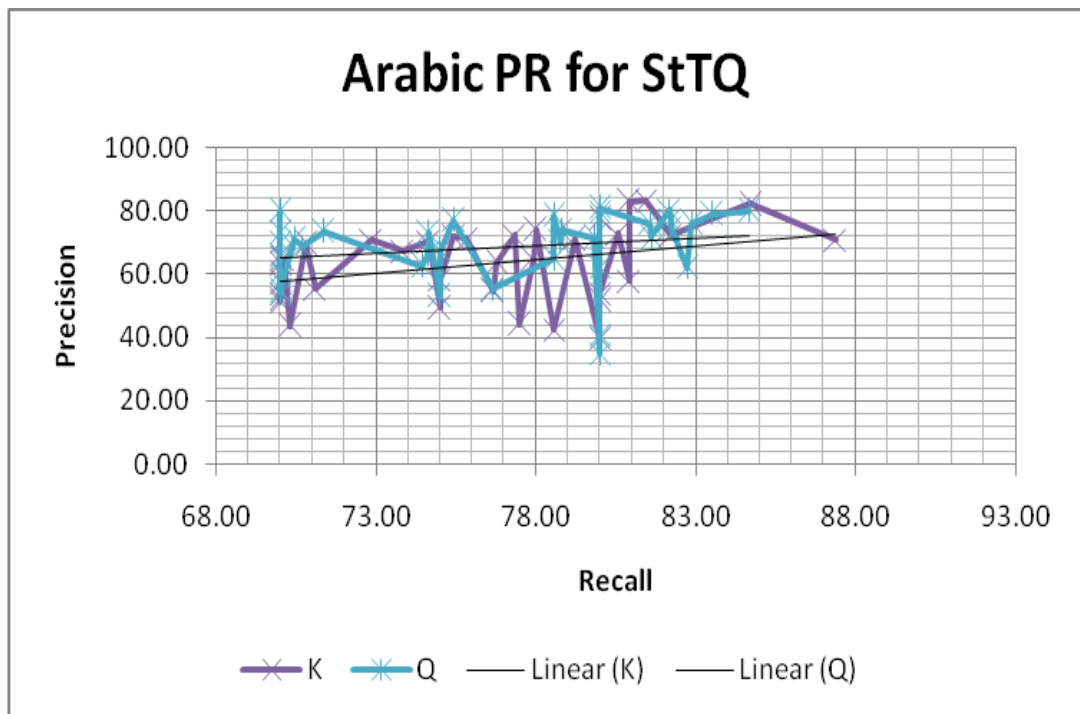


Figure 4.15: The Precision against Recall Percentage for StTQ in Arabic

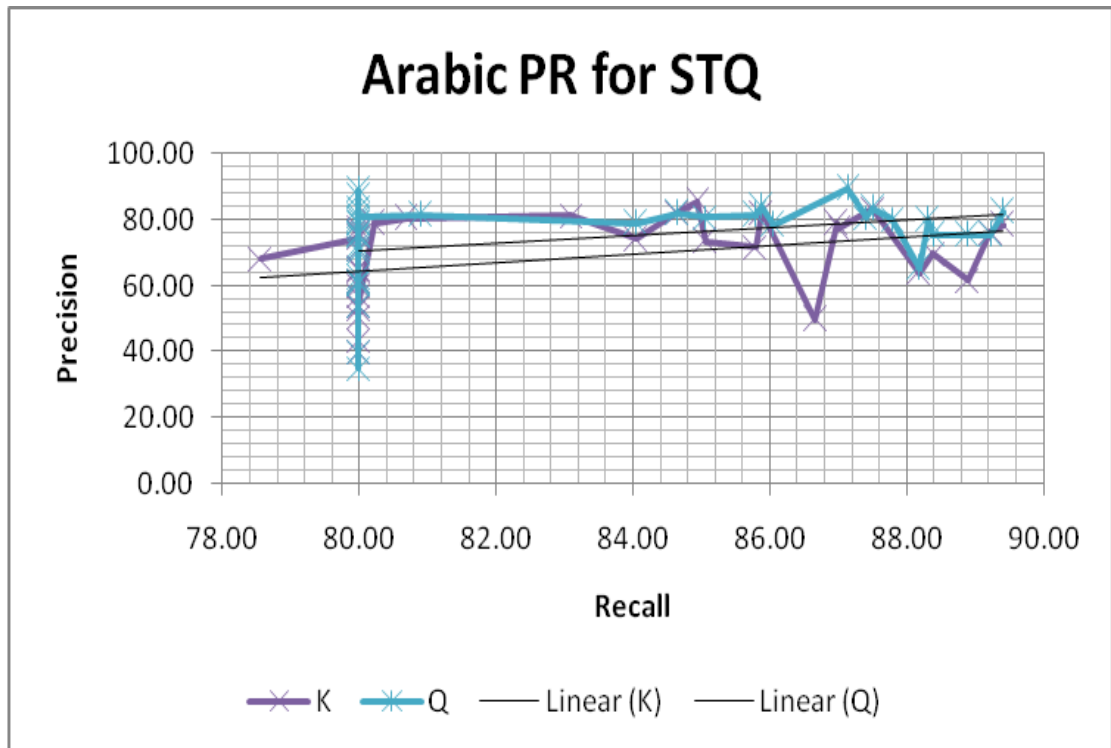


Figure 4.16: The Precision against Recall Percentage for STQ in Arabic

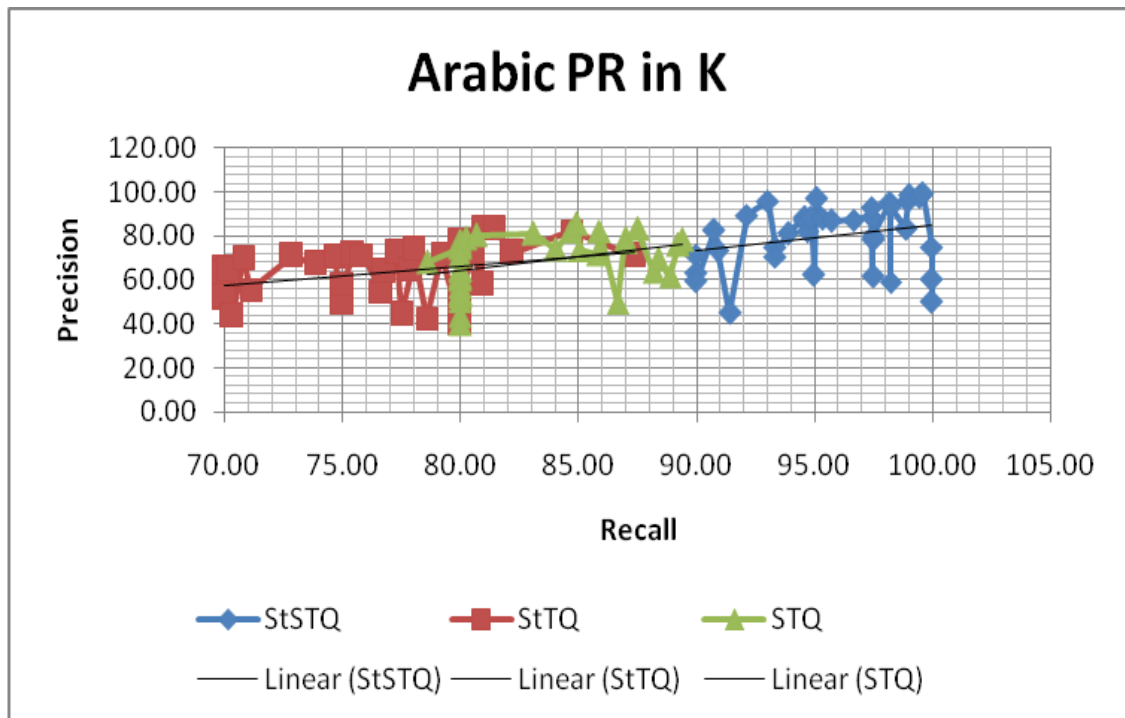


Figure 4.17: The Precision against Recall Percentage for StSTQ, StTQ and STQ in K of Arabic

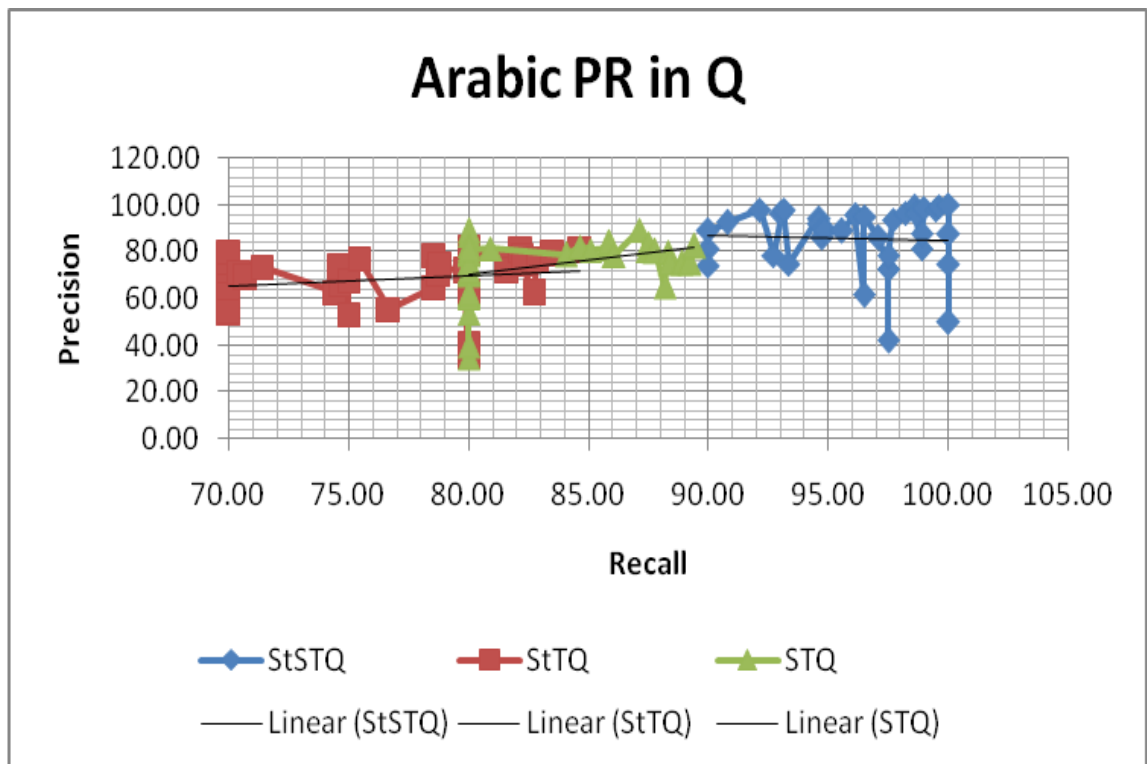


Figure 4.18: The Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of Arabic

Figure 4.14 shows the Precision against Recall Percentage for StSTQ in Arabic and it can be seen that many plots in Q are higher than K. The best coordinate for Q is 100% for precision and recall. As can be deduced from the linear graph of K and Q, the values or plots of K are increasing than Q. Figure 4.15 shows the Precision against Recall Percentage for StTQ in Arabic and many plots in Q is found to be higher than K. The best coordinate for Q is 80% for precision and 84% for recall. From the linear graph of K and Q, the values or plots of both K and Q are seen to be increasing simultaneously. Figure 4.16 shows the Precision against Recall Percentage for STQ in Arabic and many plots in Q are evidently higher than K. The best coordinate for Q is 88% for precision and 87% for recall. As in the linear graph for K and Q, the values or plots of both Q and K are increasing.

Figure 4.17 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in K of Arabic and the higher coordinate values of precision and recall refer to the StSTQ

that indicates almost 100% compared to StTQ and STQ. As can be seen from the graph pattern, values of StSTQ are higher and increasing at precision and recall of 84% and 100% than StTQ and STQ. Figure 4.18 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of Arabic and the higher coordinate values of precision and recall refer to the StSTQ that shows almost 100% compared to StTQ and STQ. As for the graph pattern, values of StSTQ are higher and increasing at precision and recall of 84% and 100 than StTQ and STQ.

4.4 Experiment on Stemmed and Unstemmed Malay Documents

The experiments have also tested and evaluated the Quran Malay translation of ayats or verses collection. Three experiments were conducted to translate 36 Arabic and English queries in Malay based on StSTQ, StTQ and STQ and the evaluation is in precision and recall percentages analysis. All the results are presented in Table 4.9, 4.10, 4.11 and 4.12 as well as in Figures 4.19 to 4.27. The tables show the results in terms of performance comparison between StSTQ, StTQ and STQ in retrieving more relevant verses from the Quran English translation verses and to obtain precision and recall percentages of 36 queries. QR system processes each query based on keywords (K) and querywords (Q). Technically, StSTQ is a better technique than StTQ and STQ. 20 of 36 queries in K and 26 in Q have more than 80% in precision. All queries in both K and Q have exceeded 80%. StTQ with 6 queries in K and 8 in Q have more than 80% precision. 28 queries in K and 28 queries in Q have more than 80% in recall. STQ with 9 queries in K and 15 in Q also have more than 80% precision. 35 queries in K and 34 queries in Q have more than 80% in recall. This means that the recall percentages are higher than precision because the total relevant ayats or verses is less than the total retrieved ayats in Figure 4.26 and 4.27. Q is also found to have better percentages in precision and recall than K as shown in Figure 4.23 to 4.25 for all techniques.

Table 4.9 Conflated Methods Comparison for Precision Percentages of Malay Documents for Query 1 to 20

Query No.	Precision (%)						CLIR		The Number of Matches					
	MALAY								MALAY					
	StSTQ		StTQ		STQ		K (TRR)	Q (TRR)	StSTQ		StTQ		STQ	
K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRT)	Q (TRT)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	
1	73.91	90.48	60.87	71.43	69.57	77.81	23	21	17	19	14	15	16	16
2	96.05	97.33	77.63	77.33	81.58	81.89	76	75	73	73	59	58	62	61
3	92.59	100.00	77.78	88.00	81.48	87.36	27	25	25	25	21	22	22	22
4	75.00	75.00	50.00	50.00	50.00	61.50	4	4	3	3	2	2	2	2
5	91.30	93.33	69.57	73.33	78.26	79.31	46	45	42	42	32	33	36	36
6	69.23	81.82	53.85	72.73	61.54	75.45	13	11	9	9	7	8	8	8
7	80.00	92.31	66.67	76.92	73.33	88.00	15	13	12	12	10	10	11	11
8	72.73	80.00	54.55	60.00	63.64	64.80	11	10	8	8	6	6	7	6
9	76.92	83.33	61.54	66.67	61.54	70.00	13	12	10	10	8	8	8	8
10	66.67	71.43	55.56	71.43	55.56	76.29	9	7	6	5	5	5	5	5
11	90.70	86.36	74.42	75.00	74.42	72.68	43	44	39	38	32	33	32	32
12	99.21	99.05	83.36	83.23	86.29	83.20	1262	1264	1252	1252	1052	1052	1089	1052
13	72.73	70.00	54.55	60.00	63.64	70.40	11	10	8	7	6	6	7	7
14	60.00	75.00	60.00	75.00	60.00	66.75	5	4	3	3	3	3	3	3
15	87.72	89.29	75.44	75.00	73.68	81.05	57	56	50	50	43	42	42	45
16	72.73	77.78	63.64	77.78	63.64	74.67	11	9	8	7	7	7	7	7
17	70.00	77.78	60.00	66.67	60.00	63.78	10	9	7	7	6	6	6	6
18	78.26	81.82	65.22	68.18	69.57	72.00	23	22	18	18	15	15	16	16
19	89.36	93.33	74.47	80.00	76.60	86.00	47	45	42	42	35	36	36	39
20	82.35	87.50	70.59	75.00	70.59	77.00	17	16	14	14	12	12	12	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

Table 4.10 Conflated Methods Comparison for Precision Percentages of Malay Documents for Query 21 to 36

Query No.	Precision (%)						The Number of Matches							
	MALAY						CLIR		MALAY					
	StSTQ		StTQ		STQ				StSTQ		StTQ		STQ	
K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRT)	Q (TRT)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	K (TRR)	Q (TRR)	
21	93.52	96.23	79.63	79.25	79.63	84.91	108	106	101	102	86	84	86	90
22	64.71	62.50	52.94	56.25	58.82	62.50	17	16	11	10	9	9	10	10
23	88.37	89.41	73.26	74.12	80.23	74.12	86	85	76	76	63	63	69	63
24	86.11	90.91	72.22	78.79	77.78	78.79	36	33	31	30	26	26	28	26
25	33.33	50.00	33.33	50.00	33.33	50.00	3	2	1	1	1	1	1	1
26	96.34	97.05	84.88	85.50	85.85	87.47	410	407	395	395	348	348	352	356
27	94.94	95.74	83.54	84.26	84.39	84.26	237	235	225	225	198	198	200	198
28	97.35	97.69	85.66	85.97	87.61	85.97	565	563	550	550	484	484	495	484
29	92.68	93.44	81.30	81.97	83.74	81.15	123	122	114	114	100	100	103	99
30	89.90	92.71	79.80	80.21	78.79	83.33	99	96	89	89	79	77	78	80
31	73.91	72.73	65.22	68.18	65.22	68.18	23	22	17	16	15	15	15	15
32	95.77	95.15	83.39	79.94	83.39	80.91	307	309	294	294	256	247	256	250
33	72.73	80.00	63.64	70.00	63.64	70.00	11	10	8	8	7	7	7	7
34	87.36	91.57	78.16	78.31	79.31	83.13	87	83	76	76	68	65	69	69
35	83.33	89.74	73.81	76.92	76.19	82.05	42	39	35	35	31	30	32	32
36	66.67	71.43	60.00	64.29	60.00	57.14	15	14	10	10	9	9	9	8
Average:	80.96	85.26	68.35	73.27	70.91	75.14								

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

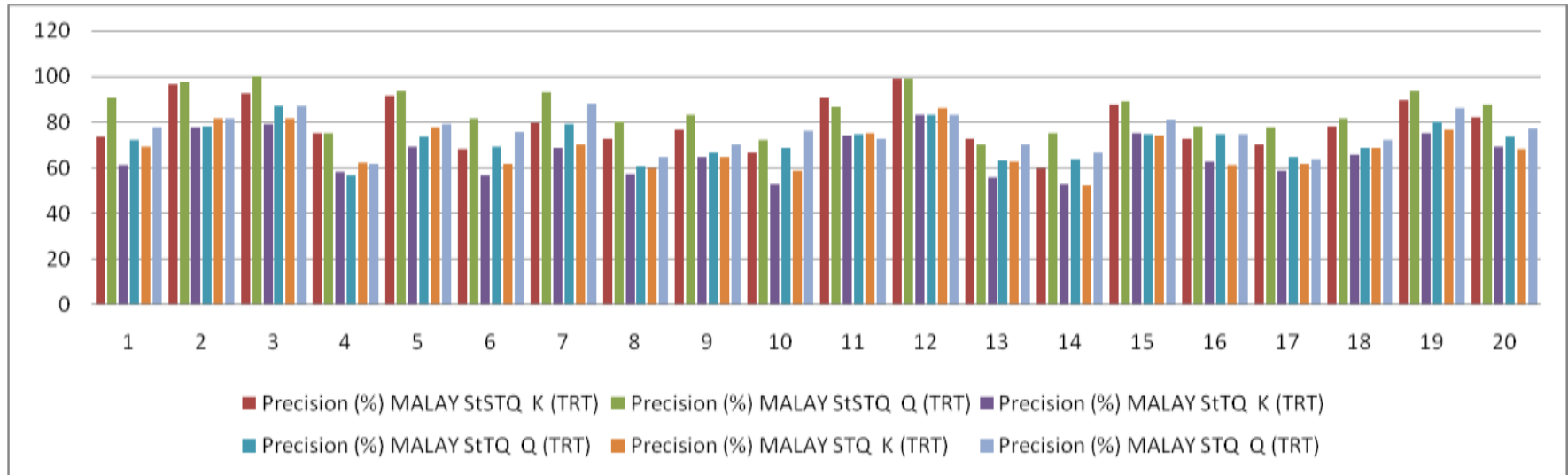


Figure 4.19: Conflated Methods Comparison for Precision Percentages of Malay Documents for Query 1 to 20

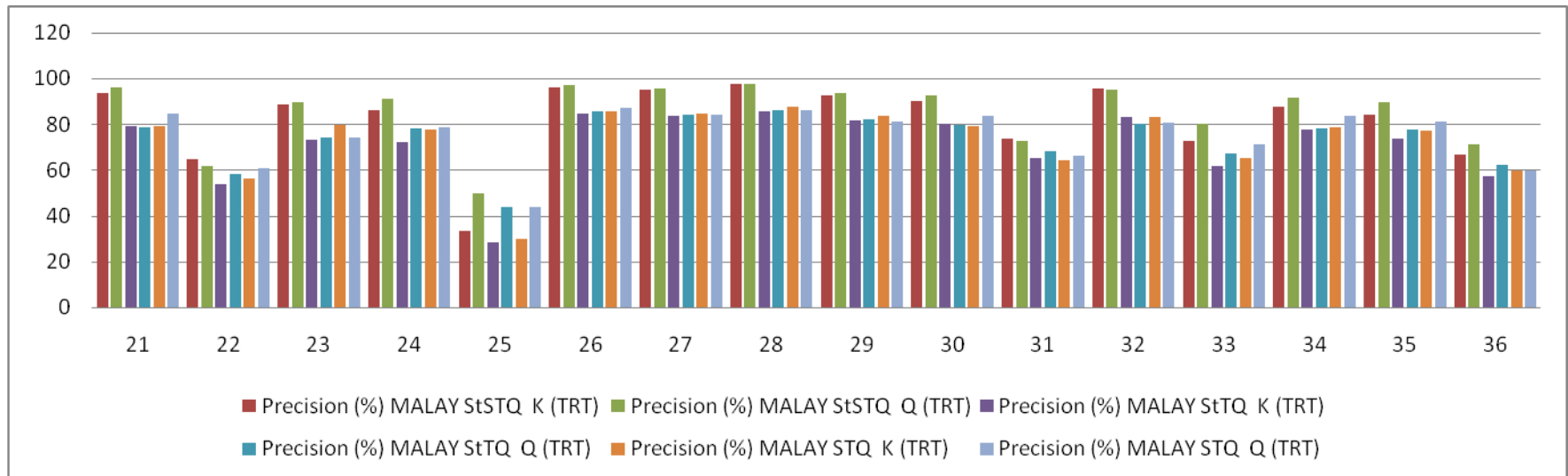


Figure 4.20: Conflated Methods Comparison for Precision Percentages of Malay Documents for Query 21 to 36

Table 4.11 Conflated Methods Comparison for Recall Percentages of Malay Documents for Query 1 to 20

Query No.	Recall (%) MALAY						CLIR TRE (MS)	The Number of Matches MALAY					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)		K (TRE)	Q (TRE)	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)
1	89.47	100.00	73.68	78.95	84.21	84.21	19	17	19	14	15	16	16
2	98.65	98.65	79.73	78.38	83.78	82.43	74	73	73	59	58	62	61
3	96.15	96.15	80.77	84.62	84.62	84.62	26	25	25	21	22	22	22
4	100.00	100.00	66.67	66.67	66.67	66.67	3	3	3	2	2	2	2
5	97.67	97.67	74.42	76.74	83.72	83.72	43	42	42	32	33	36	36
6	90.00	90.00	70.00	80.00	80.00	80.00	10	9	9	7	8	8	8
7	92.31	92.31	76.92	76.92	84.62	84.62	13	12	12	10	10	11	11
8	100.00	100.00	75.00	75.00	87.50	75.00	8	8	8	6	6	7	6
9	100.00	100.00	80.00	80.00	80.00	80.00	10	10	10	8	8	8	8
10	100.00	83.33	83.33	83.33	83.33	83.33	6	6	5	5	5	5	5
11	100.00	97.44	82.05	84.62	82.05	82.05	39	39	38	32	33	32	32
12	100.00	100.00	84.03	84.03	86.98	84.03	1252	1252	1252	1052	1052	1089	1052
13	100.00	87.50	75.00	75.00	87.50	87.50	8	8	7	6	6	7	7
14	100.00	100.00	100.00	100.00	100.00	100.00	3	3	3	3	3	3	3
15	98.04	98.04	84.31	82.35	82.35	88.24	51	50	50	43	42	42	45
16	100.00	87.50	87.50	87.50	87.50	87.50	8	8	7	7	7	7	7
17	100.00	100.00	85.71	85.71	85.71	85.71	7	7	7	6	6	6	6
18	100.00	100.00	83.33	83.33	88.89	88.89	18	18	18	15	15	16	16
19	97.67	97.67	81.40	83.72	83.72	90.70	43	42	42	35	36	36	39
20	100.00	100.00	85.71	85.71	85.71	85.71	14	14	14	12	12	12	12

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

Table 4.12 Conflated Methods Comparison for Recall Percentages of Malay Documents for Query 21 to 36

Query No.	Recall (%) MALAY						CLIR TRE (MS)	The Match The Number of Matches					
	StSTQ		StTQ		STQ			StSTQ		StTQ		STQ	
	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)		K (TRE)	Q (TRE)	K (TRE)	Q (TRE)	K (TRE)	Q (TRE)
21	99.02	100.00	84.31	82.35	84.31	88.24	102	101	102	86	84	86	90
22	100.00	90.91	81.82	81.82	90.91	90.91	11	11	10	9	9	10	10
23	98.70	98.70	81.82	81.82	89.61	81.82	77	76	76	63	63	69	63
24	100.00	96.77	83.87	83.87	90.32	83.87	31	31	30	26	26	28	26
25	100.00	100.00	100.00	100.00	100.00	100.00	1	1	1	1	1	1	1
26	100.00	100.00	88.10	88.10	89.11	90.13	395	395	395	348	348	352	356
27	100.00	100.00	88.00	88.00	88.89	88.00	225	225	225	198	198	200	198
28	100.00	100.00	88.00	88.00	90.00	88.00	550	550	550	484	484	495	484
29	100.00	100.00	87.72	87.72	90.35	86.84	114	114	114	100	100	103	99
30	98.89	98.89	87.78	85.56	86.67	88.89	90	89	89	79	77	78	80
31	100.00	94.12	88.24	88.24	88.24	88.24	17	17	16	15	15	15	15
32	100.00	100.00	87.07	84.01	87.07	85.03	294	294	294	256	247	256	250
33	100.00	100.00	87.50	87.50	87.50	87.50	8	8	8	7	7	7	7
34	98.70	98.70	88.31	84.42	89.61	89.61	77	76	76	68	65	69	69
35	97.22	97.22	86.11	83.33	88.89	88.89	36	35	35	31	30	32	32
36	100.00	100.00	90.00	90.00	90.00	80.00	10	10	10	9	9	9	8
Average:	98.68	97.27	83.56	83.81	86.68	85.86							

Note:

TRT – Total Number of Retrieved Document(s)

TRE – Total Number of Relevant Document(s)

TRR – Number of Relevant Document(s) Retrieved

K – Keywords

Q – Querywords

MS – Total Manual Searching Document(s)

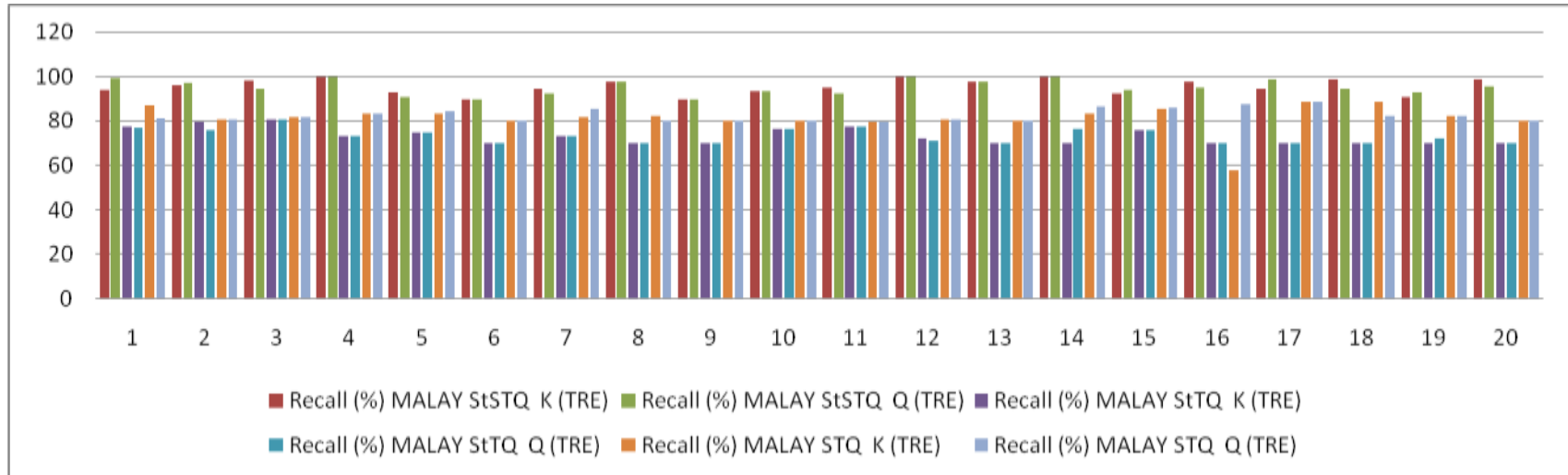


Figure 4.21: Conflated Methods Comparison for Recall Percentages of Malay Documents for Query 1 to 20

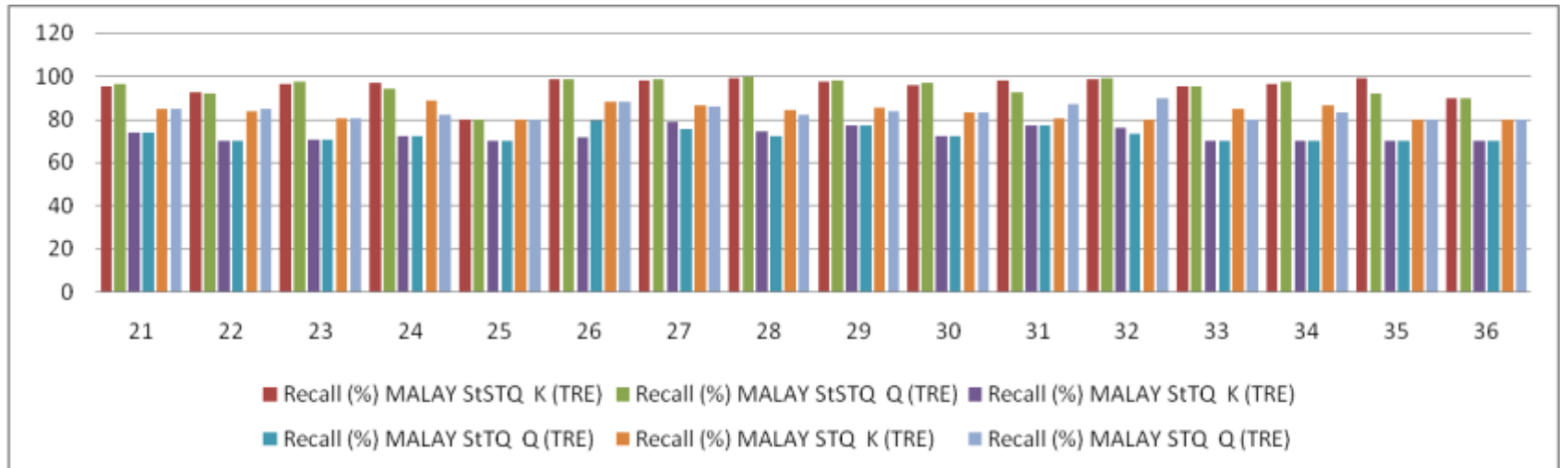


Figure 4.22: Conflated Methods Comparison for Recall Percentages of Malay Documents for Query 21 to 36

Figure 4.23 shows the Precision against Recall Percentage for StSTQ in Malay and many plots in Q are found to be higher than K. The best coordinate for Q is 100% for precision and 99% for recall. In the linear graph for K and Q, the values or plots of both of them are increasing. Figure 4.24 shows the Precision against Recall Percentage for StTQ in Malay and many plots in Q are shown to be higher than K. The best coordinate for Q is 80% for precision and 81% for recall. In the linear graph for K and Q, the values or plots of both of them are increasing. Figure 4.25 shows the Precision against Recall Percentage for STQ in Malay and many plots in Q are evidently higher than K. The best coordinate for Q is 80% for precision and 89% for recall. From the linear graph for K and Q, the values or plots of both of them can be seen to be increasing.

Figure 4.26 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in K of Malay and the higher coordinate values of precision and recall refer to the StSTQ that presents almost 100% than StTQ and STQ. From the graph pattern, values of StSTQ are markedly higher and increasing at precision and recall of 92% and 100% than StTQ and STQ. Figure 4.27 shows the Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of Malay and the higher coordinate values of precision and recall refer to the StSTQ that performs almost 100% than StTQ and STQ. As deduced from the graph pattern, values of StSTQ are higher and increasing at precision and recall of 92 and 100 than StTQ and STQ.

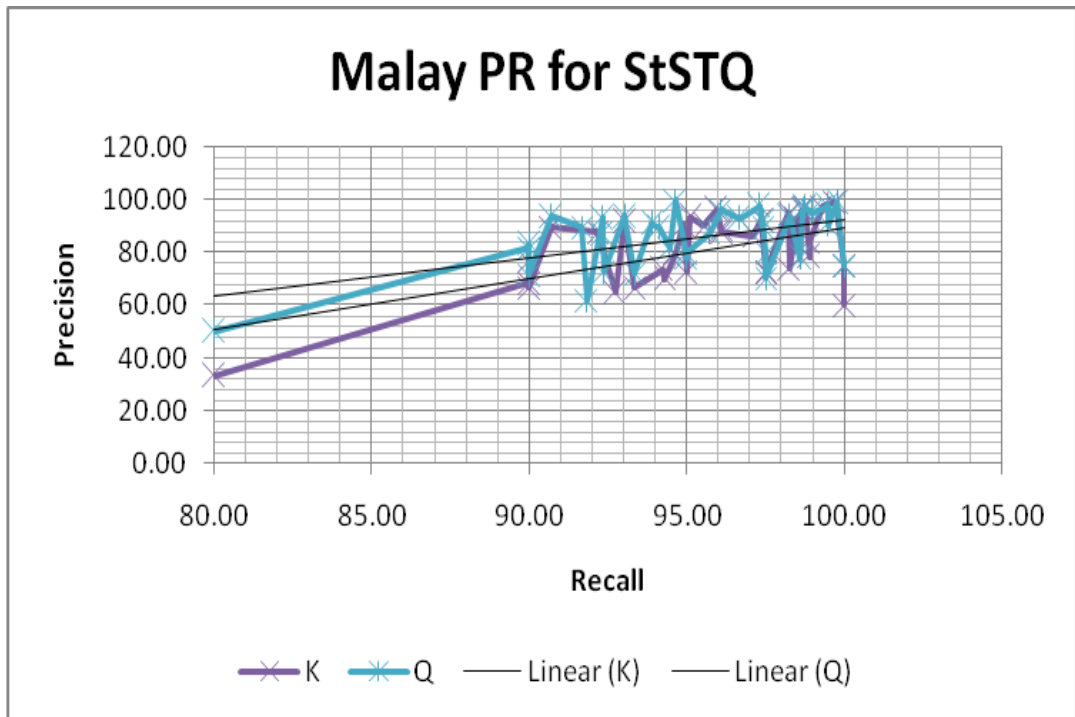


Figure 4.23: The Precision against Recall Percentage for StSTQ in Malay

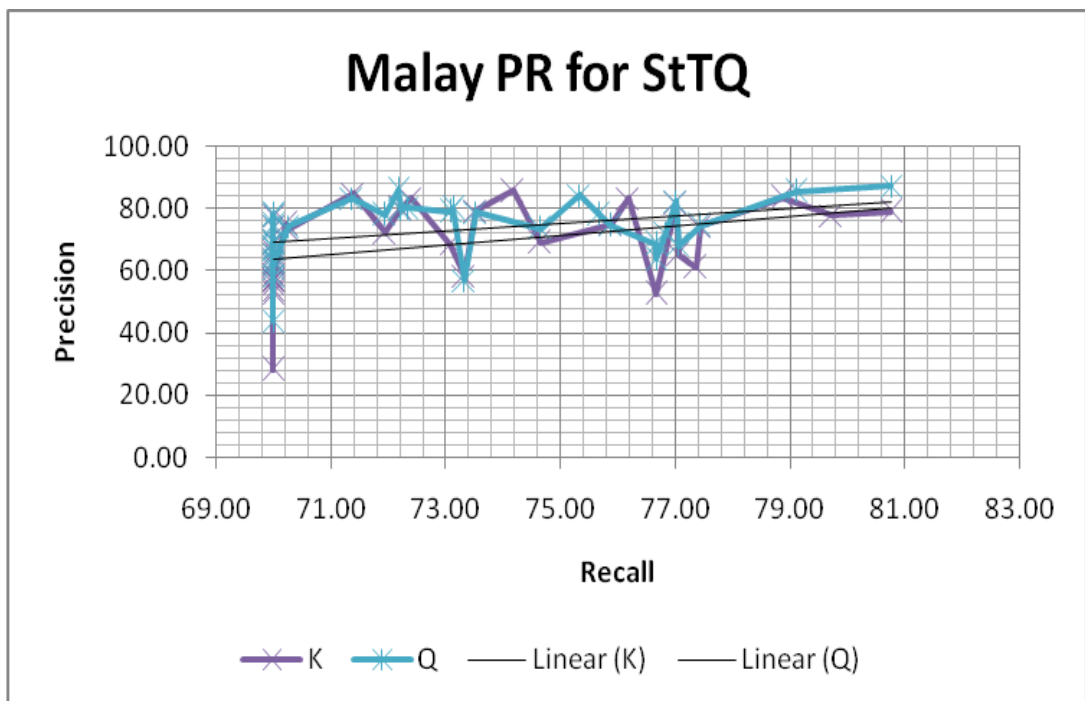


Figure 4.24: The Precision against Recall Percentage for StTQ in Malay

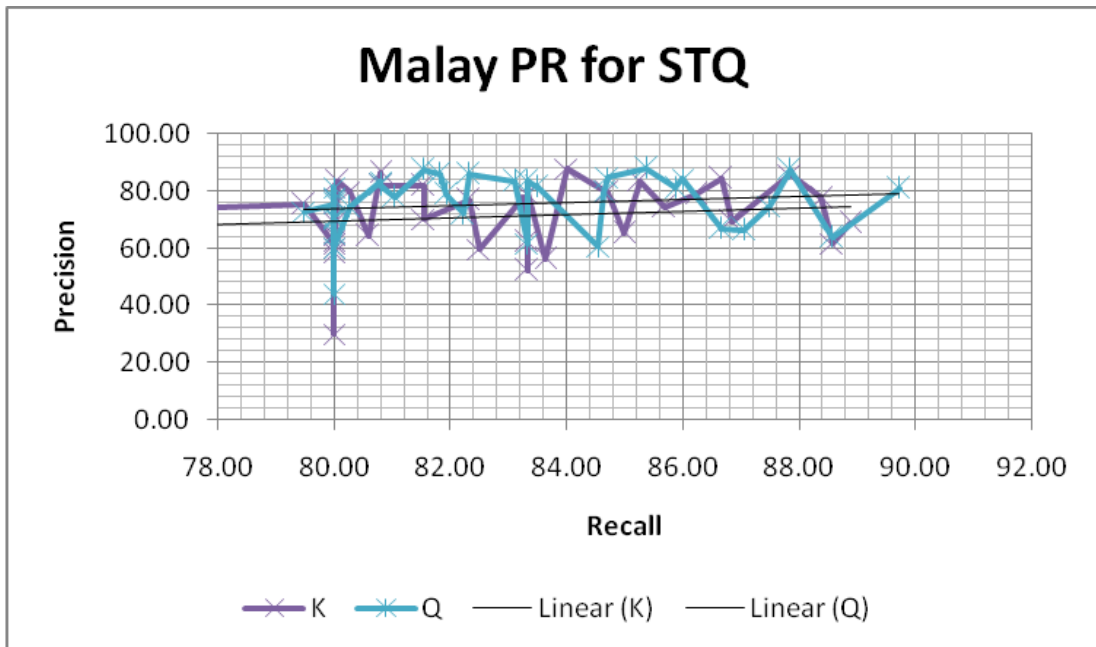


Figure 4.25: The Precision against Recall Percentage for STQ in Malay

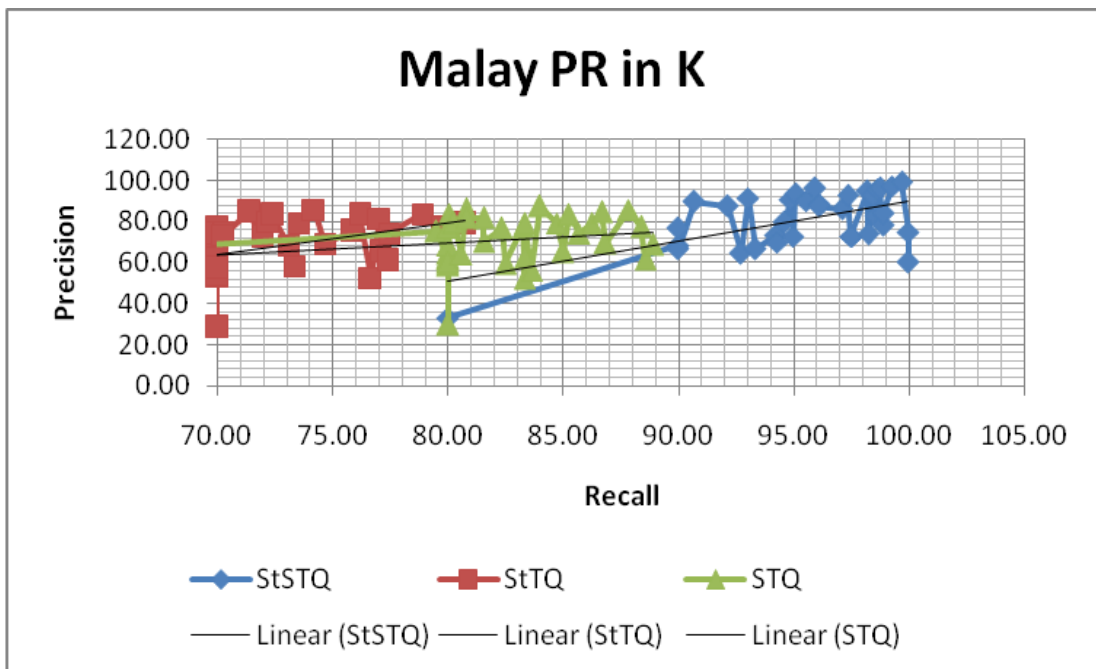


Figure 4.26: The Precision against Recall Percentage for StSTQ, StTQ and STQ in K of Malay

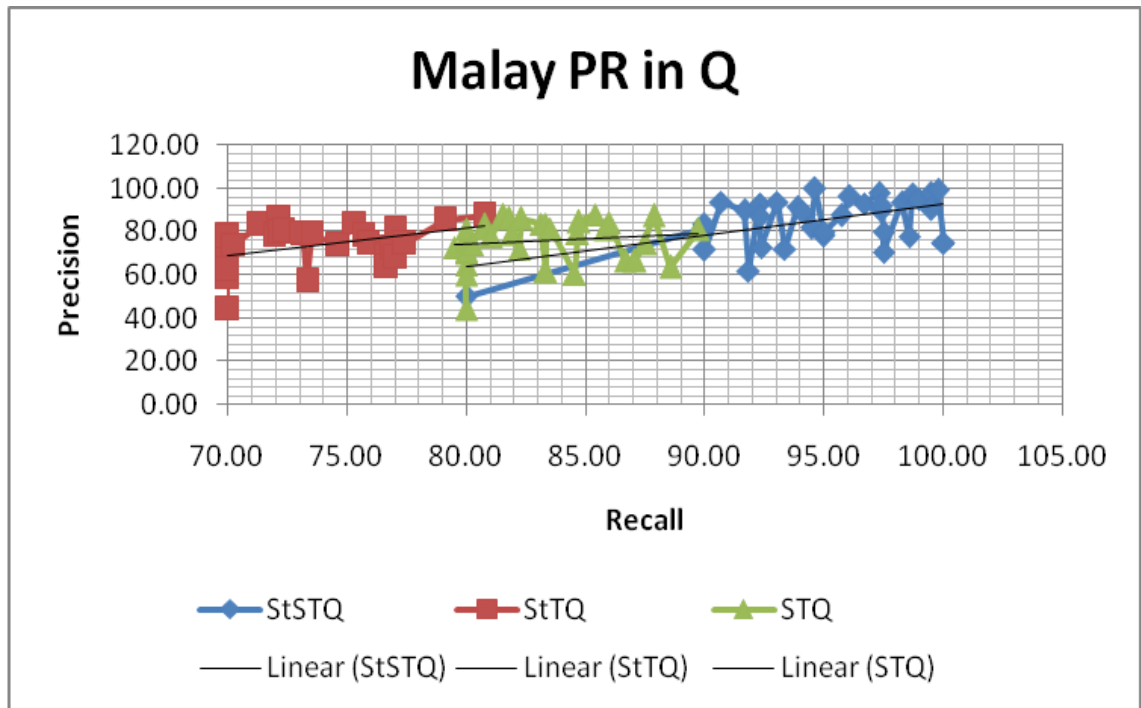


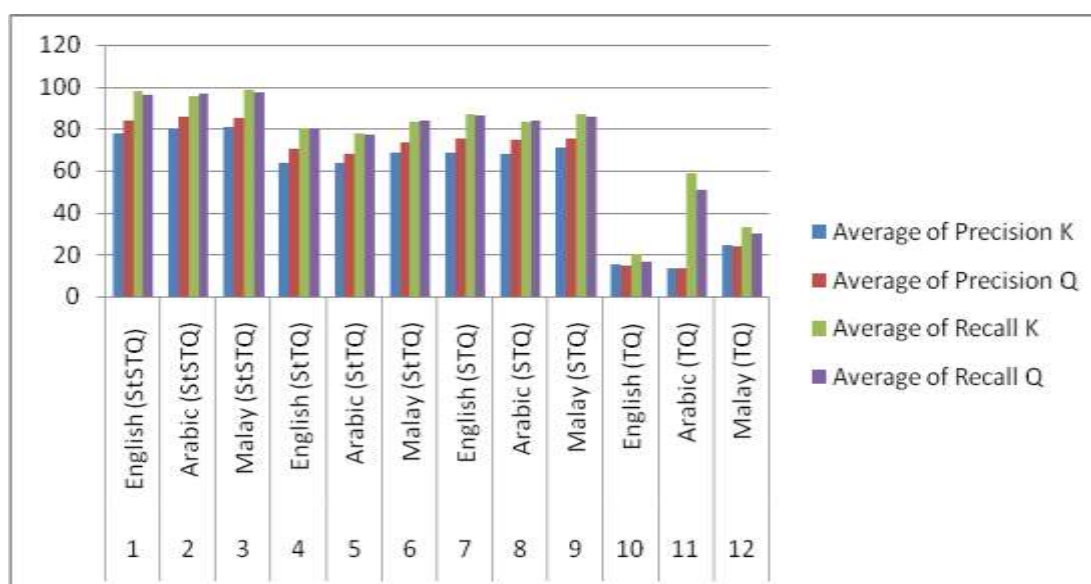
Figure 4.27: The Precision against Recall Percentage for StSTQ, StTQ and STQ in Q of Malay

4.5 Discussion of Experimental Results

Table 4.13 and Figure 4.28 show the average percentages of recall and precision for 24 experiments based on K and Q. The experiments evaluate StSTQ, StTQ, STQ and TQ in English, Arabic and Malay based on 36 queries. The results are also presented in Figure 4.29 to 4.34. It is shown that the StSTQ is a better technique in QR than StTQ, STQ and TQ, which is indicated by more than 77% precision and more than 90% in recall. Translation of query does not affect the recall and precision but improves the users' understanding on the displayed results technically.

Table 4.13 Average Percentages of Recall and Precision of Experiments

No	Experiments	Average of Precision		Average of Recall	
		K	Q	K	Q
1.	English (StSTQ)	77.52	84.12	97.83	96.19
2.	Arabic (StSTQ)	80.03	85.84	95.24	96.94
3.	Malay (StSTQ)	80.96	85.26	98.68	97.27
4.	English (StTQ)	63.61	70.13	80.25	80.13
5.	Arabic (StTQ)	63.38	67.89	77.51	77.07
6.	Malay (StTQ)	68.35	73.27	83.56	83.81
7.	English (STQ)	68.57	75.24	86.93	86.12
8.	Arabic (STQ)	68.09	74.49	83.21	84.14
9.	Malay (STQ)	70.91	75.14	86.68	85.86
10.	English (TQ)	15.50	14.69	20.40	16.60
11.	Arabic (TQ)	13.74	13.34	58.85	50.87
12.	Malay (TQ)	24.79	23.90	32.97	30.12

**Figure 4.28: Average Percentages of Recall and Precision of Experiments**

Average Precision percentages of StSTQ for K and Q in English is 77.52 and 84.12; in Arabic, 80.03 and 85.84; in Malay, 80.96 and 85.26 respectively. The average Recall percentages for K and Q in English is 97.83 and 96.19; in Arabic, 95.24 and 96.94; in Malay, 98.68 and 97.27 respectively. The experiments on Malay documents are better in terms of average Recall and Precision percentages. These StSTQ values are better than other techniques because of the existence of semantic for stemming process. This means that the stemmers are more beneficial to perform in QR and query expansion.

The higher values of recall and precision percentages depend on the semantic technique and the efficient stemmer in the query expansion to retrieve more relevant documents or verses. The figures show higher Q values than K in precision and recall percentages that improve QR performance. The query expansion affects the performances of QR in improving the results based on StSTQ. StSTQ recall percentages are also better than previous researches conducted by Prasad's (2008) that studied on Improving Recall for Hindi, Telugu, Oromo to English CLIR (HTO-E) and Sujatha' (2010) that conducted a research on Evaluation of English-Telugu and English-Tamil (E-Te & Te-E). Prasad (2008) and Sujatha (2010) indicated 70% and 86% in recall respectively. They have not improved or enhanced the query through the combination of semantic and stemming techniques in their experiments.

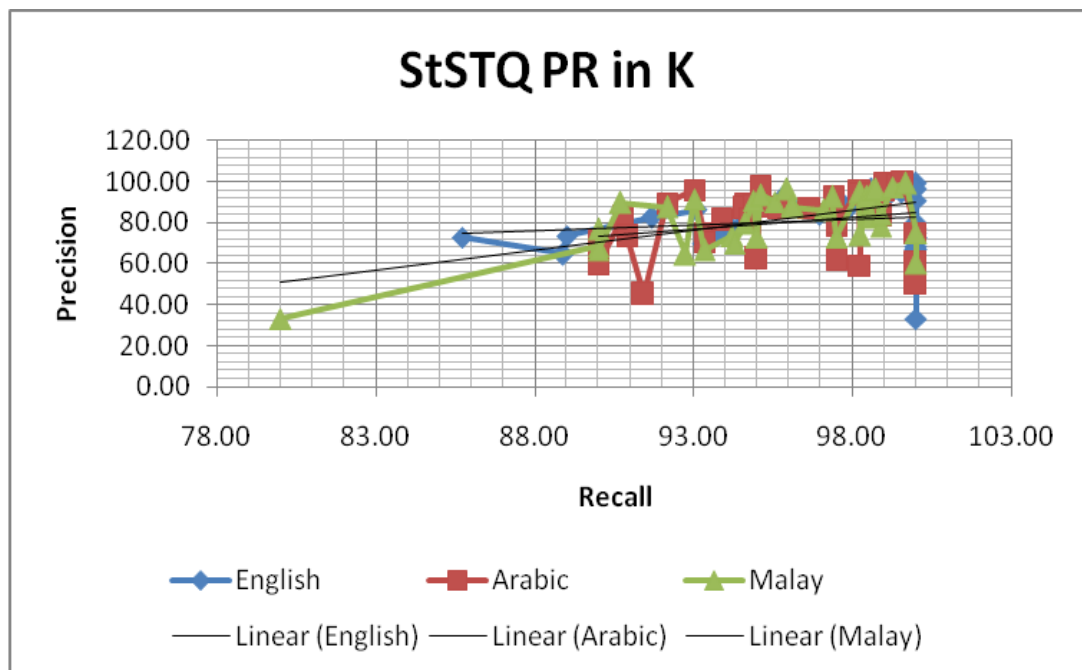


Figure 4.29: The Precision against Recall Percentage for English, Arabic and Malay in K of StSTQ

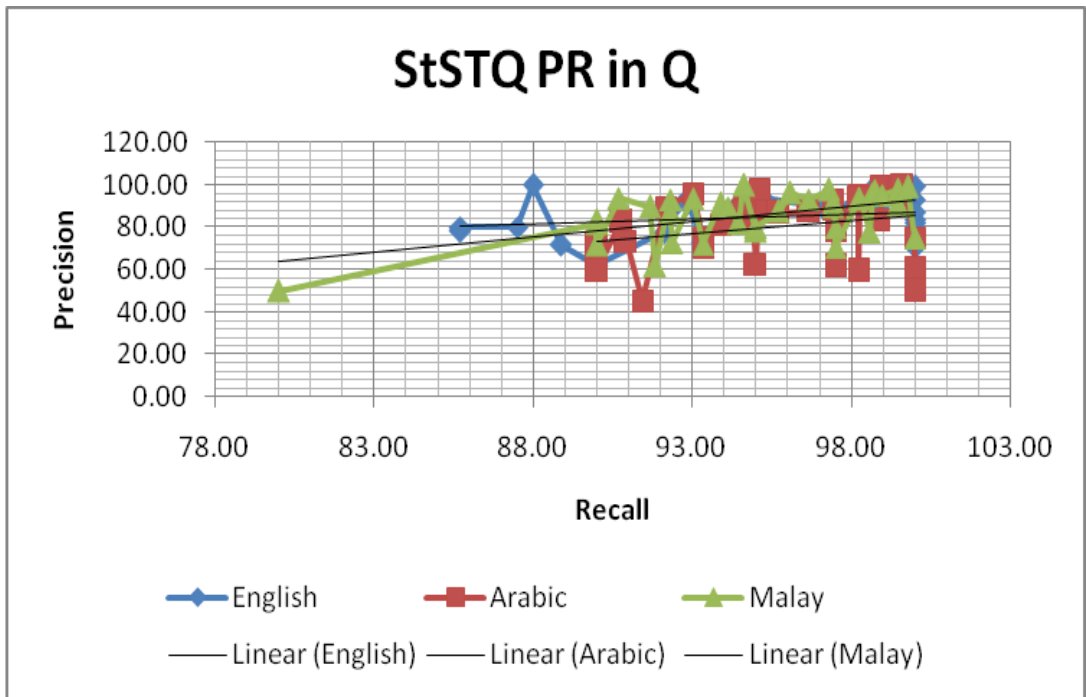


Figure 4.30: The Precision against Recall Percentage for English, Arabic and Malay in Q of StSTQ

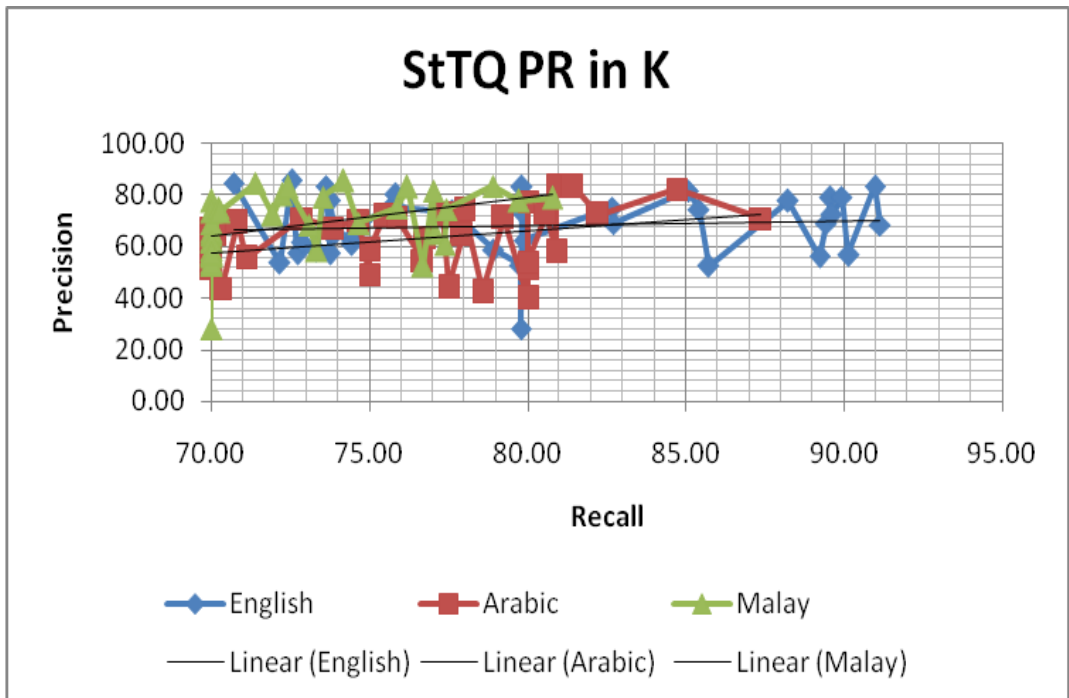


Figure 4.31: The Precision against Recall Percentage for English, Arabic and Malay in K of StTQ

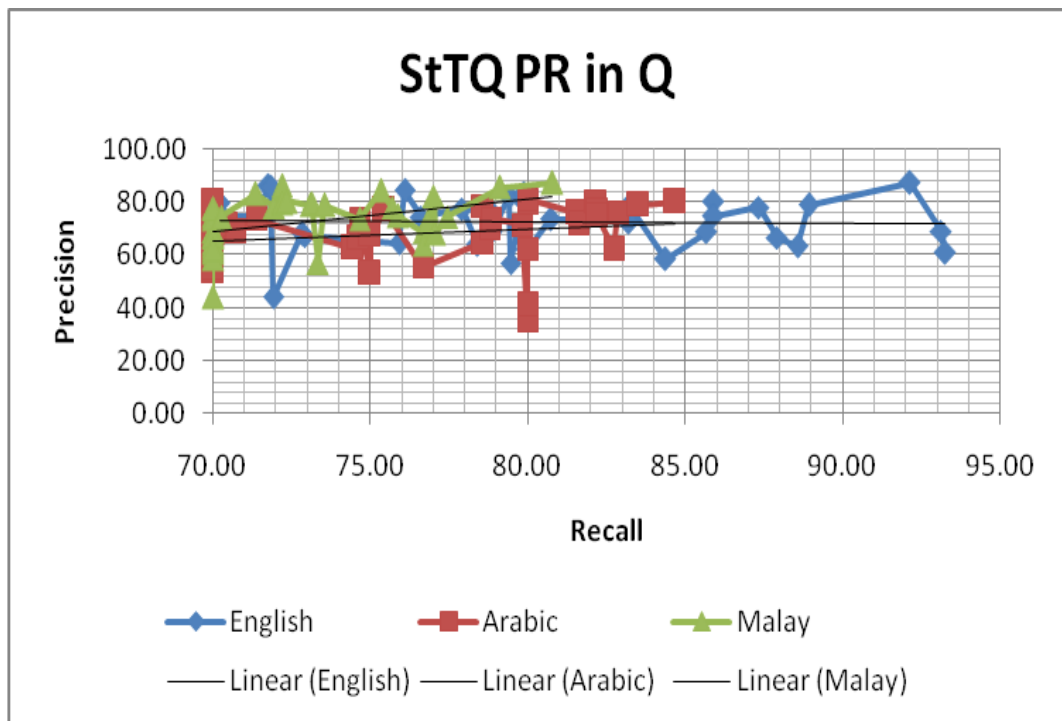


Figure 4.32: The Precision against Recall Percentage for English, Arabic and Malay in Q of StTQ

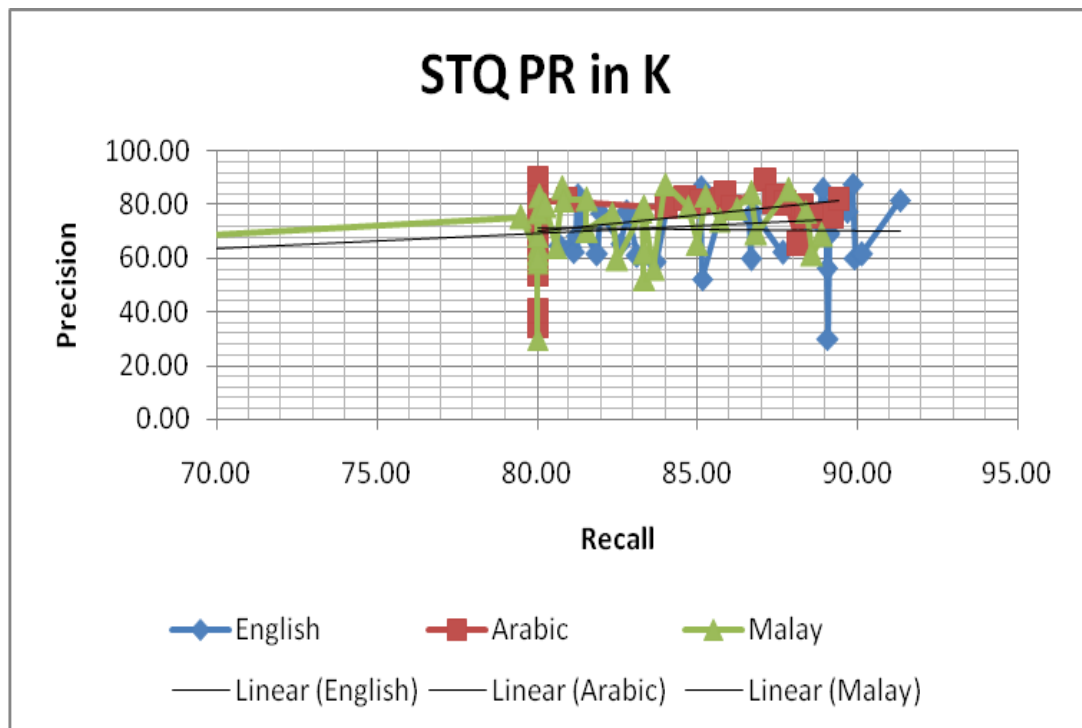


Figure 4.33: The Precision against Recall Percentage for English, Arabic and Malay in K of STQ

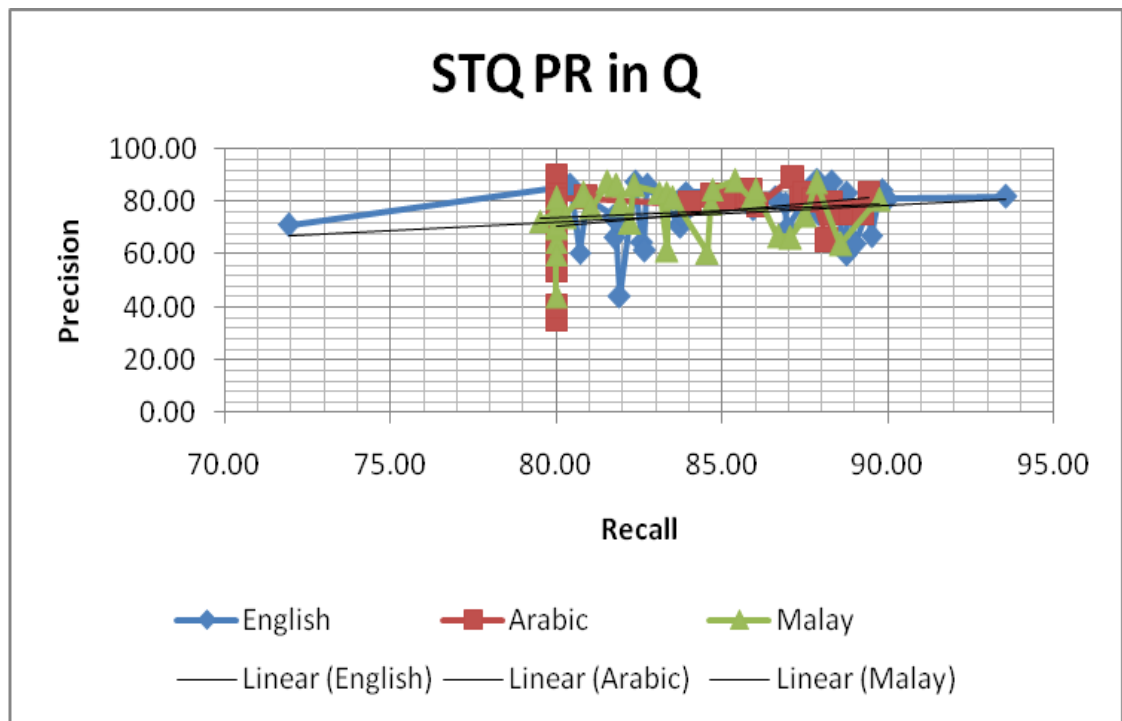


Figure 4.34: The Precision against Recall Percentage for English, Arabic and Malay in Q of STQ

4.6 Discussion of StSTQ in SpaceTree

The high values of recall and precision percentages depend on the efficient stemmer to remove all the affixes of the synonymous words in the query expansion and words on Quran verses collection to retrieve more relevant verses. The keyword (K) can repeat the same verses and lead to low effectiveness than query words (Q). Table 4.14 and 4.15 show the total users amongst Muslims and Non-Muslims that choose the better technique after testing the prototype system and their feedbacks in the questionnaire. They have to select one as the best methods in the questionnaire. In order to evaluate the result and analysis, 200 questionnaires were distributed to the various levels of users that consist of students and lecturers in University of Malaya, Kuala Lumpur; 100 papers for Muslims and 100 papers for non-Muslims. However, only 89 and 95 responses were received from Muslims and non-Muslims respectively. Most users amongst Muslims and Non-Muslim prefer the visualizing stemmed semantic translated

query (65 and 58 respectively) as the best method from the listed methods in the questionnaire, as shown in Figure 4.35 to 4.37.

Table 4.14 Total of Muslim Users According to Their Most Preferred Methods

Conflated Methods	Responder		
	Lecturer	Student	Total
Semantic query	0	0	0
Stemmed query	0	0	0
Stemmed semantic query	0	0	0
Semantic translated query	0	1	1
Stemmed translated query	0	0	1
Stemmed semantic translated query (StSTQ)	1	2	3
User right thought query	0	0	0
Query translation	0	2	2
Multilingual query translation	0	0	0
Visualizing semantic query	0	1	1
Visualizing stemming query	0	1	1
Visualizing stemming semantic query	0	1	1
Visualizing semantic translated query	0	1	1
Visualizing stemmed translated query	0	1	1
Visualizing stemmed semantic translated query (StSTQ)	14	51	65
Visualizing user right thought query	0	1	1
Visualizing query translation	0	1	1
Visualizing multilingual query translation	1	9	10
Total:	16	73	89

Table 4.15 Total of Non-Muslim Users According to Their Most Preferred Methods

Conflated Methods	Responder		
	Lecturer	Student	Total
Semantic query	0	0	0
Stemmed query	0	0	0
Stemmed semantic query	0	2	2
Semantic translated query	2	0	2
Stemmed translated query	0	0	0
Stemmed semantic translated query (StSTQ)	5	3	8
User right thought query	0	0	0
Query translation	0	3	3
Multilingual query translation	2	0	2
Visualizing semantic query	0	2	2
Visualizing stemming query	0	0	1
Visualizing stemming semantic query	0	8	8
Visualizing semantic translated query	1	2	3
Visualizing stemmed translated query	0	0	0
Visualizing stemmed semantic translated query (StSTQ)	8	50	58
Visualizing user right thought query	0	1	2
Visualizing query translation	0	3	3
Visualizing multilingual query translation	0	2	2
Total:	18	77	95

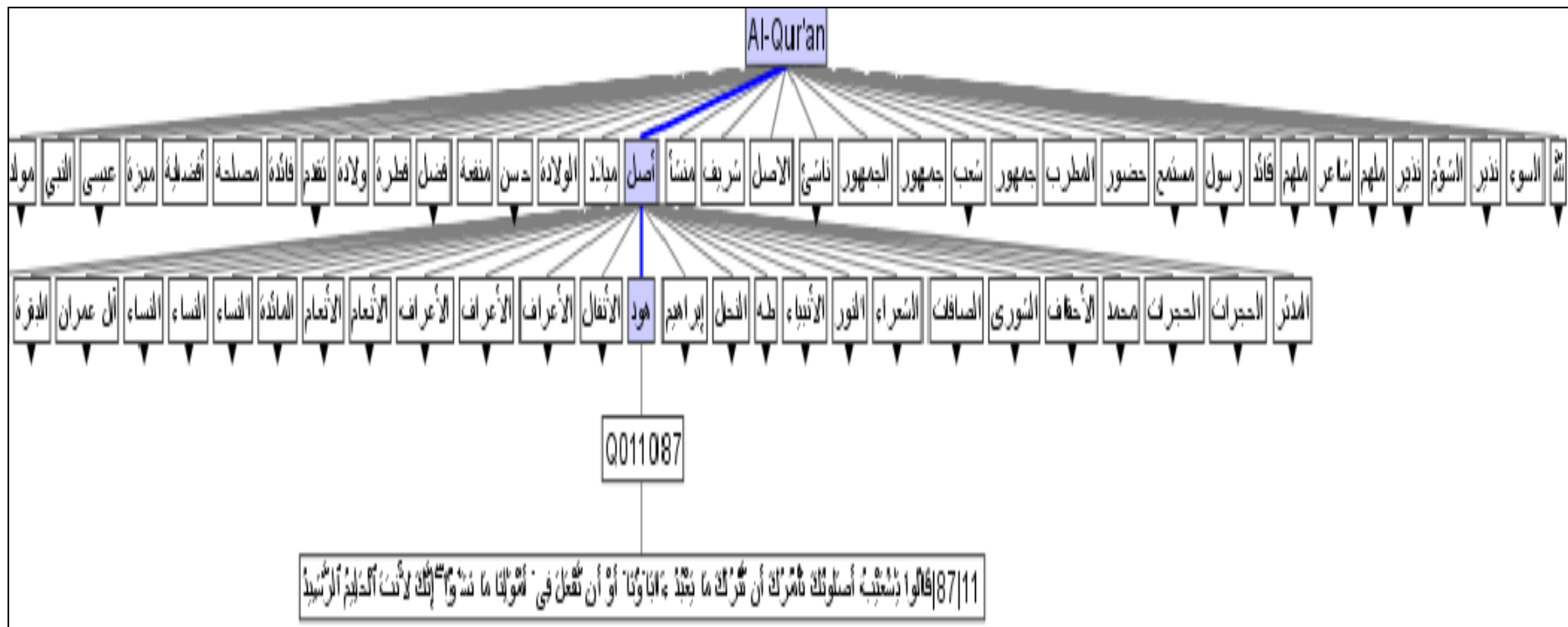


Figure 4.35: SpaceTree “مَوْلِدُ النَّبِيِّ عِيسَى” of Semantic Arabic Visualization

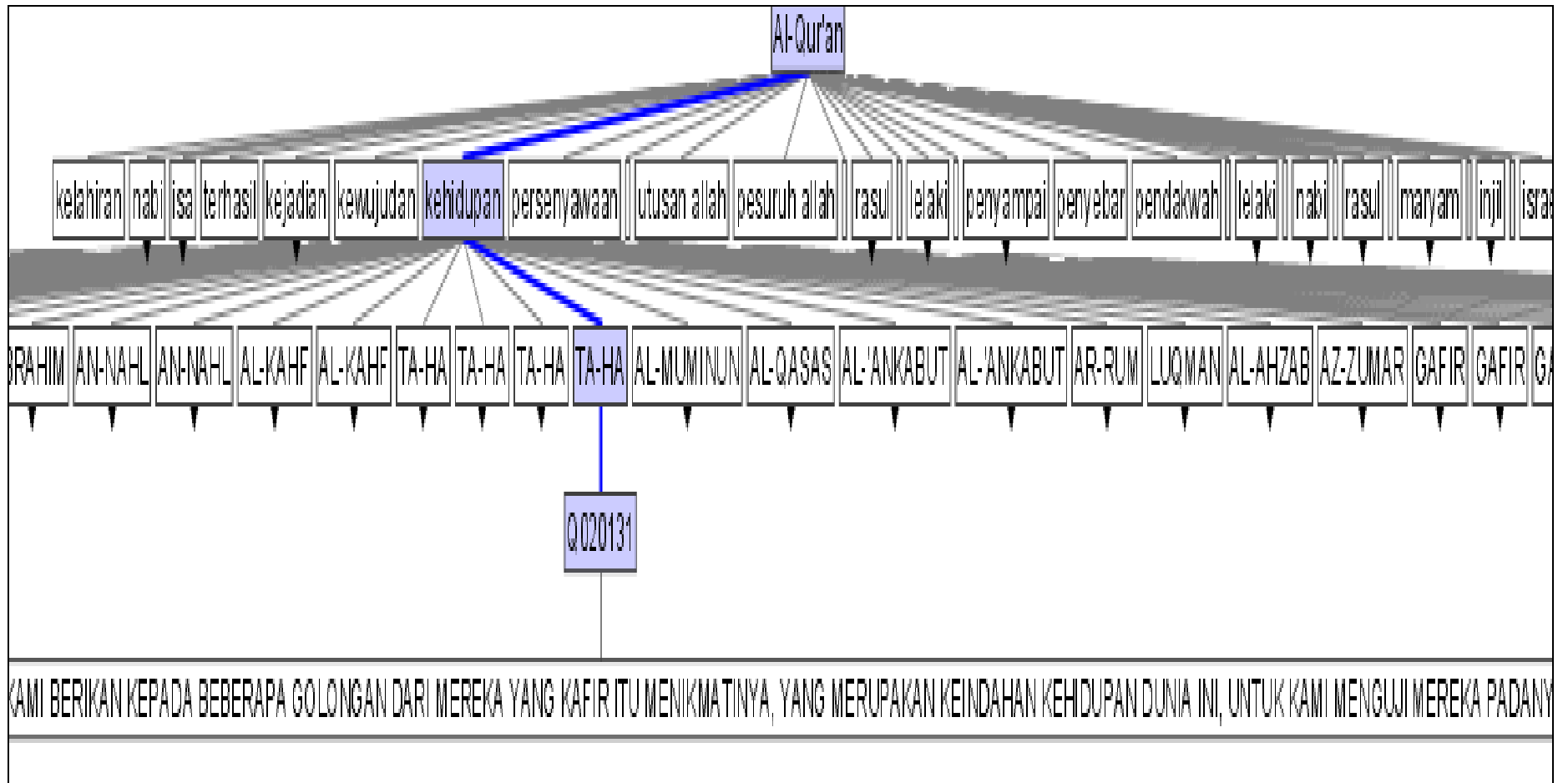


Figure 4.36: SpaceTree “Kelahiran nabi Isa” of Semantic Malay Visualization

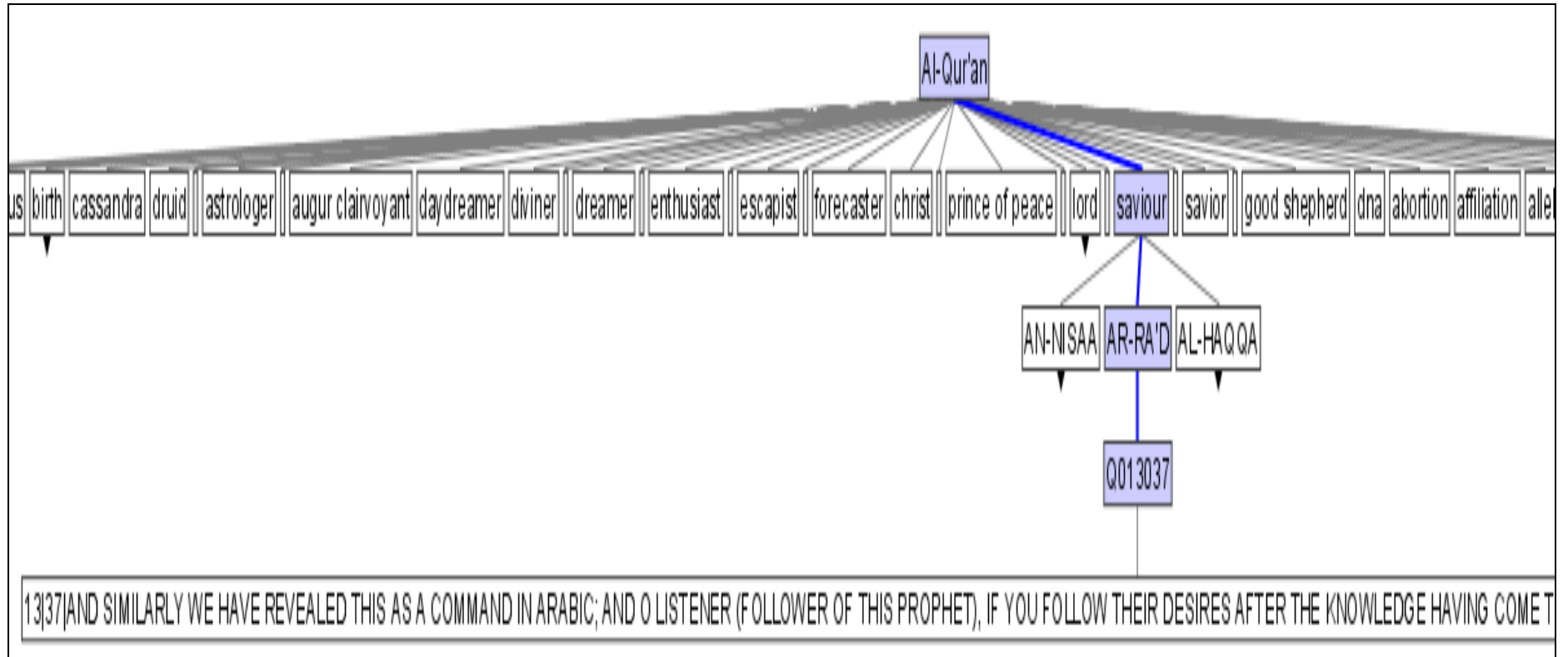


Figure 4.37: SpaceTree “Prophet Jesus birth” of Semantic English Visualization

Table 4.16 Overall Functional Requirements of the Prototype Systems

Function	Prototypes Comparison				
	Previous study conducted by Yusof et. al				<i>Current study</i>
	Integrated system	Directory approach	Galaxy approach	Hyperbolic approach	<i>SpaceTree approach with IR system</i>
Arabic text of the Quran	√	√	√	√	√
Search	√	√	√	√	√
Visualization of searched result	√	√	√	√	√
Audio	√	X	X	X	X
Translation	√ BM	X	√	X	√
Save	√	X	X	X	√
Print	X	X	√	X	√
Juz(Parts) and Surah(Chapters) class	X	√	X	√	√
Medinan or Meccan class	X	√	X	√	X
<i>Semantic results</i>	X	X	X	X	√

Most users feel comfortable to visualize the relevant information and query. The combination of visualization, stemming, semantic and translation improves the users' understanding in order to get better picture and assimilation regarding the clear meanings in the retrieval results. Visualizing stemmed semantic translated query technique is most selective and effective in improving users' comprehension based on the user feedbacks from the questionnaire. Stemmed semantic query is not selective and an interesting method in understanding the information provided. It does present the information on visual dynamically.

The results in Table 4.14 and 4.15 show the listed techniques. The semantic technique expands the query that consists of synonyms for retrieving relevant verses. The stemming of the synonyms in the query and words in Quran verses collection simultaneously also can perform QR successfully to retrieve more relevant verses. Visualising the results can improve users' understanding, interests, satisfaction and knowledge assimilation which depend on the relationship between query and result in order to enhance users' comprehension. Yusof et al. (2009) proposed four types of visualization in explaining and understanding the Quran verses in every chapter. Users can visualize the information with hyperbolic, directory, galaxy and integrated approaches (Yusof et al., 2009). This study adds SpaceTree in the QR system developed by Plaisant et al. (2003) that represents Quran verses for every chapter shown from Figure 4.35 till 4.37 (Plaisant, et al., 2003) compared to traditional results from Figure 4.38 till 4.40. Table 4.16 shows SpaceTree QR system and provides 8 out of 10 functions (Yusof, et al., 2009).

4.7 Result

Figure 4.33 to 4.35 show the QR system interfaces that describe verses and chapters in

English, Malay and Arab. QR can translate the result in English, Malay and Arab and the translation does not affect the recall and precision due to replacement of the source language into the target language through index number of each verse.

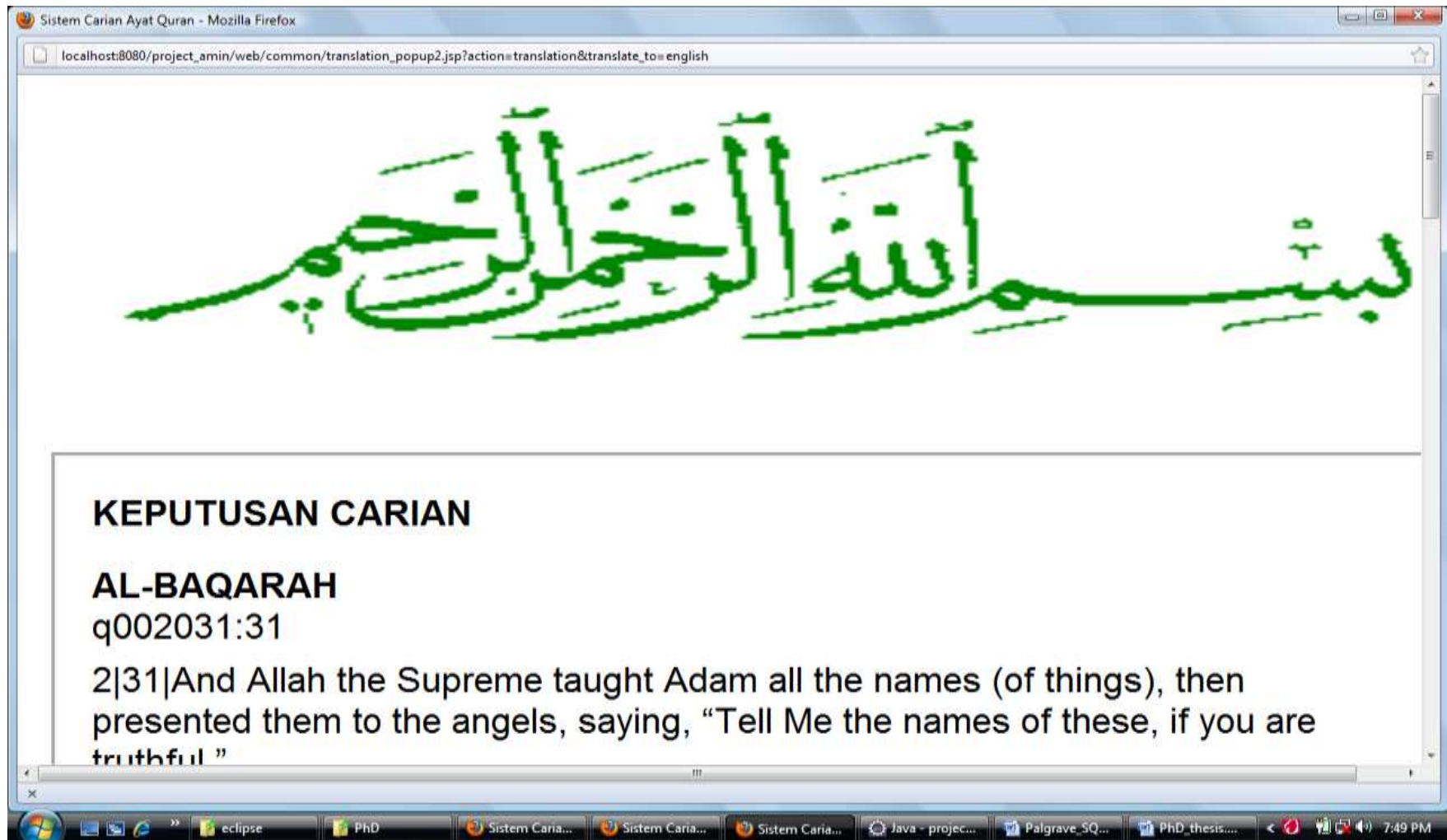


Figure 4.38: The Semantic Query Result for “Prophet Jesus birth”

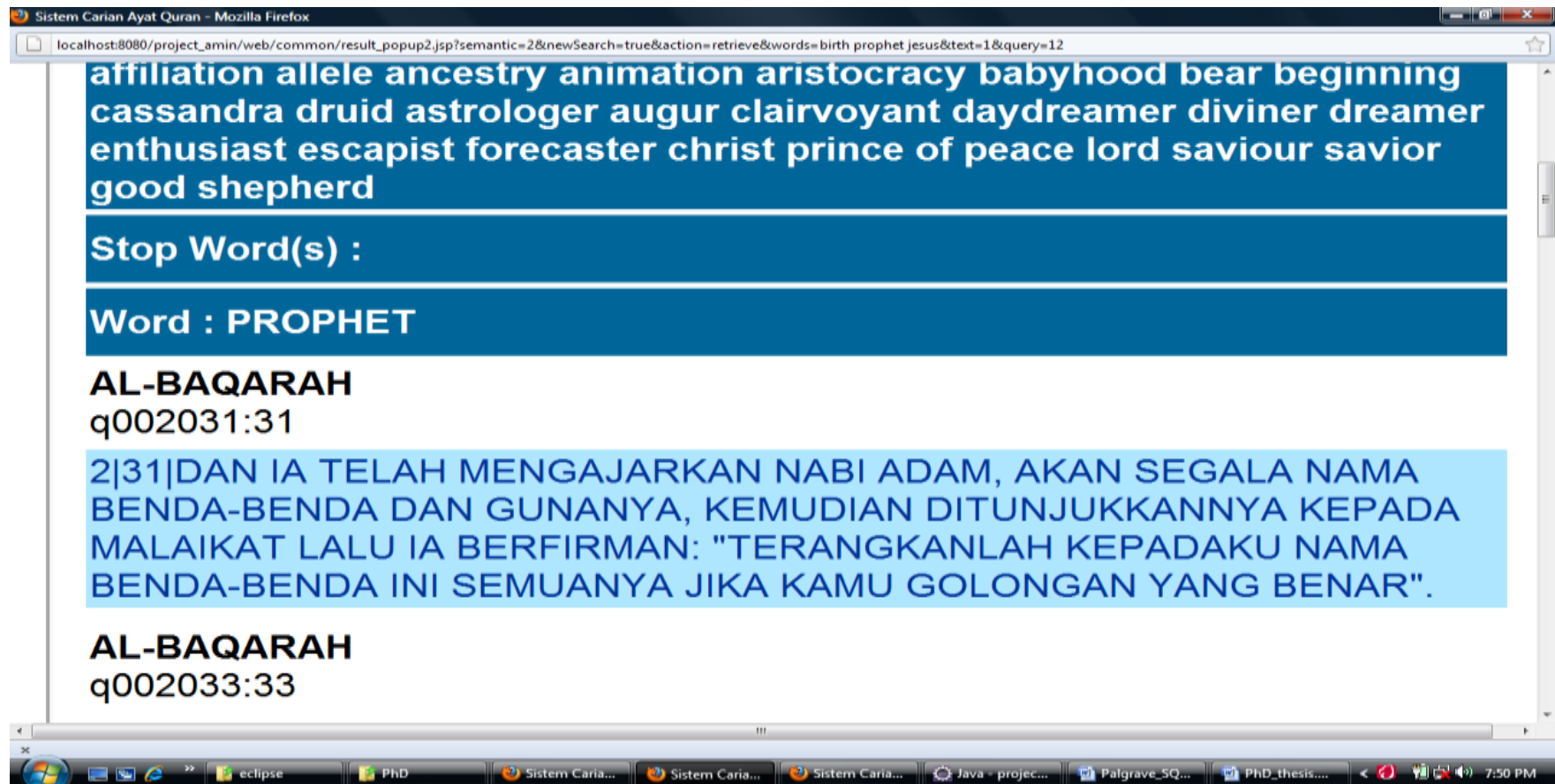


Figure 4.39: Semantic Query Result to Malay



Figure 4.40: Semantic Query Result to Arabic

4.8 Experimental Approach System of StSTQ

StSTQ has started with a certain language of the query as the input of the system. For example, عيون, is when the query is the third query in Arabic (Appendix C). The relevance judgment comes from totally through a manual search result for each query. The third query has 26 potential relevant verses in the result (Appendix E). QR system considers each query as word-by-word (K) and queryword (Q). In this case, K is chosen, translated and expanded through semantic approach in Figure 4.43. Its translated query is *mata* and its synonyms are *pancaindera*, *bilah* and *markah*. The synonyms in the translated query and words in the Quran verses collection are stemmed in Figure 4.44. Due to that, Figure 4.32 shows the various processes pertaining to StSTQ, StTQ and STQ for Malay, English and Arabic respectively. The total of QR of the third query is 3052 ayats or verses. The target language of the first result is in Malay that shows numbers of chapters and ayats or verses (q002055, q002060.....q003019) and QR translates the result in English (Figure 4.45) and in Arabic (Figure 4.46). Figure 4.41 shows the Arabic 3rd query. Figure 4.43 and 4.44 illustrates the Malay result based on the translated 3rd query, and shows the search result (*keputusan carian*) from Al-Baqarah (q002060:60). Figure 4.44 shows the whole results on Malay translated 3rd query with 3052 of total records (*jumlah rekod*). QR translates obvious Malay results in Figure 4.43 and 4.44 into English and Arabic results in Figure 4.45 and Figure 4.46 respectively based on index numbers or verses numbers. QR is dynamically presented through SpaceTree (Figure 4.47) instead of normal view (Figure 4.43, 4.44, 4.45, and 4.46).

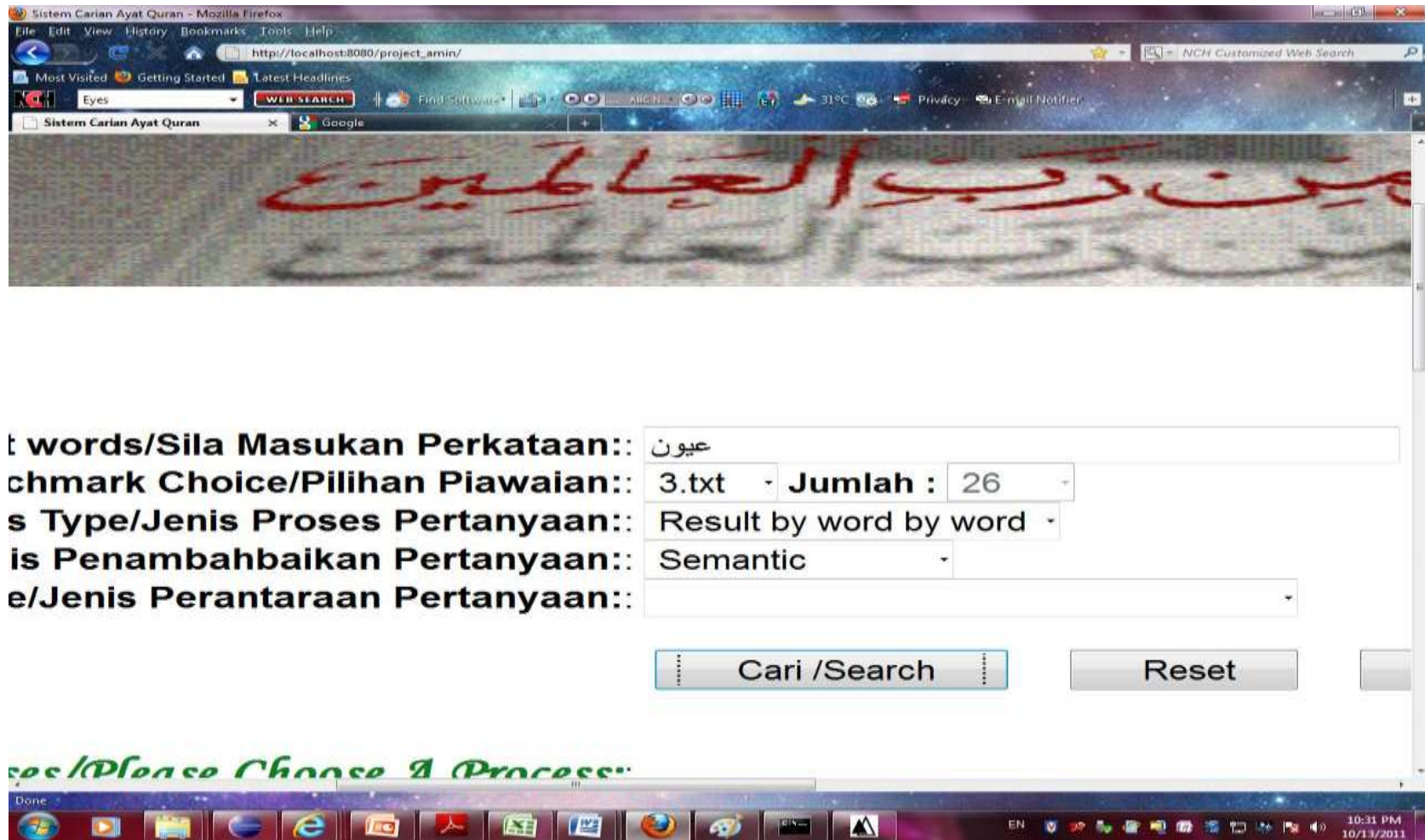


Figure 4.41: Main Menu of Quran Search Website

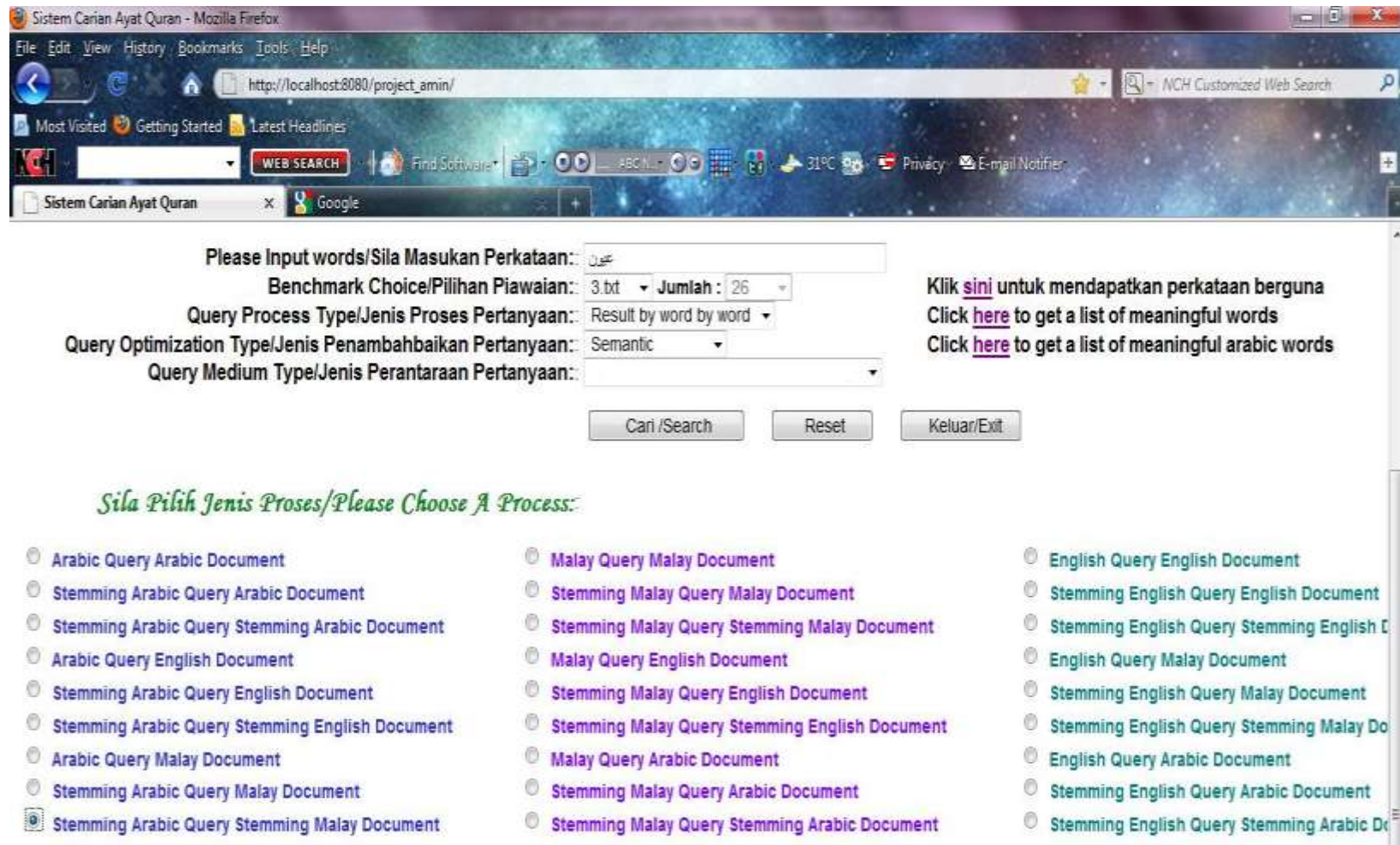


Figure 4.42: Arabic 3rd Query of StSTQ

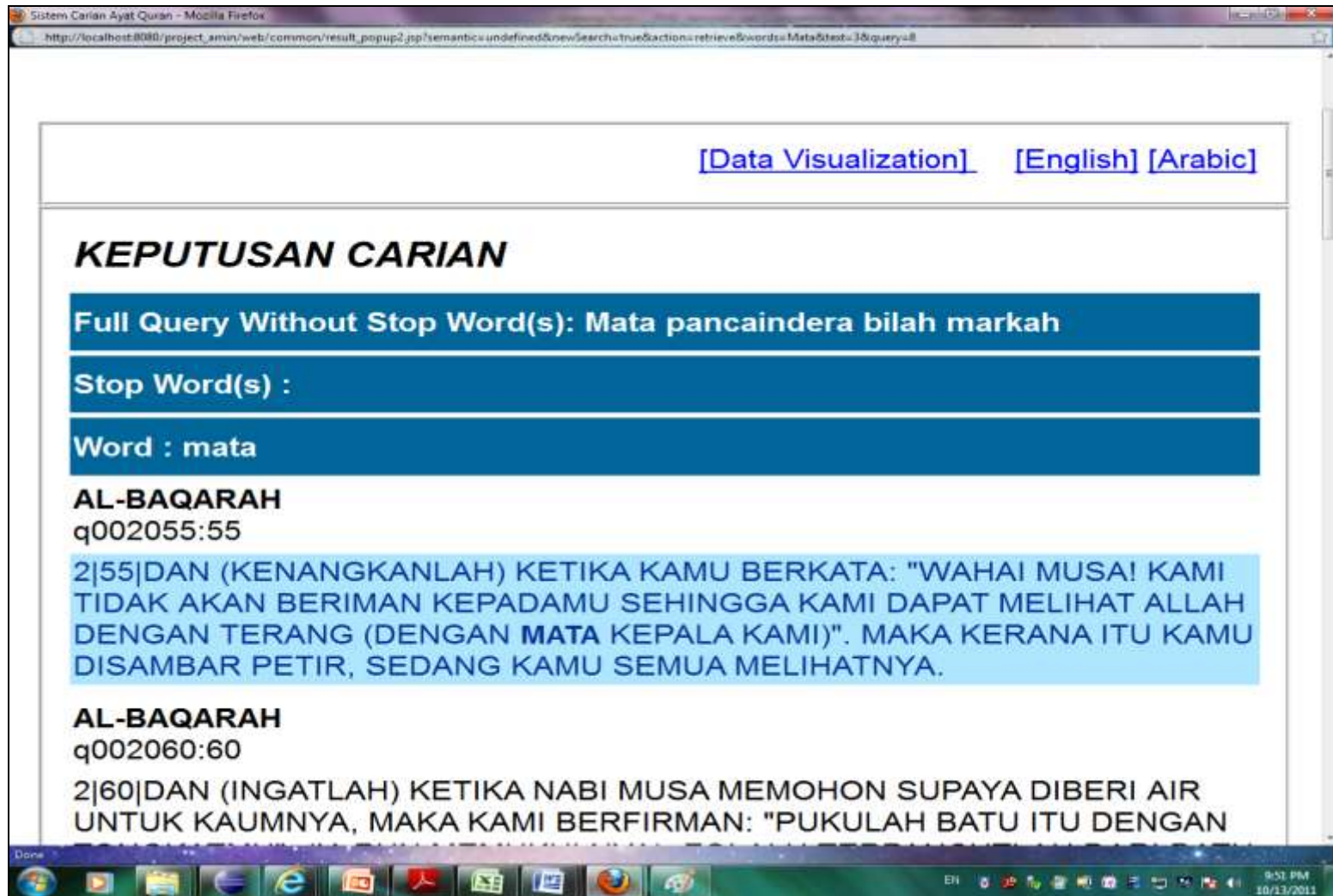


Figure 4.43: Malay Result based on Translated 3rd Query

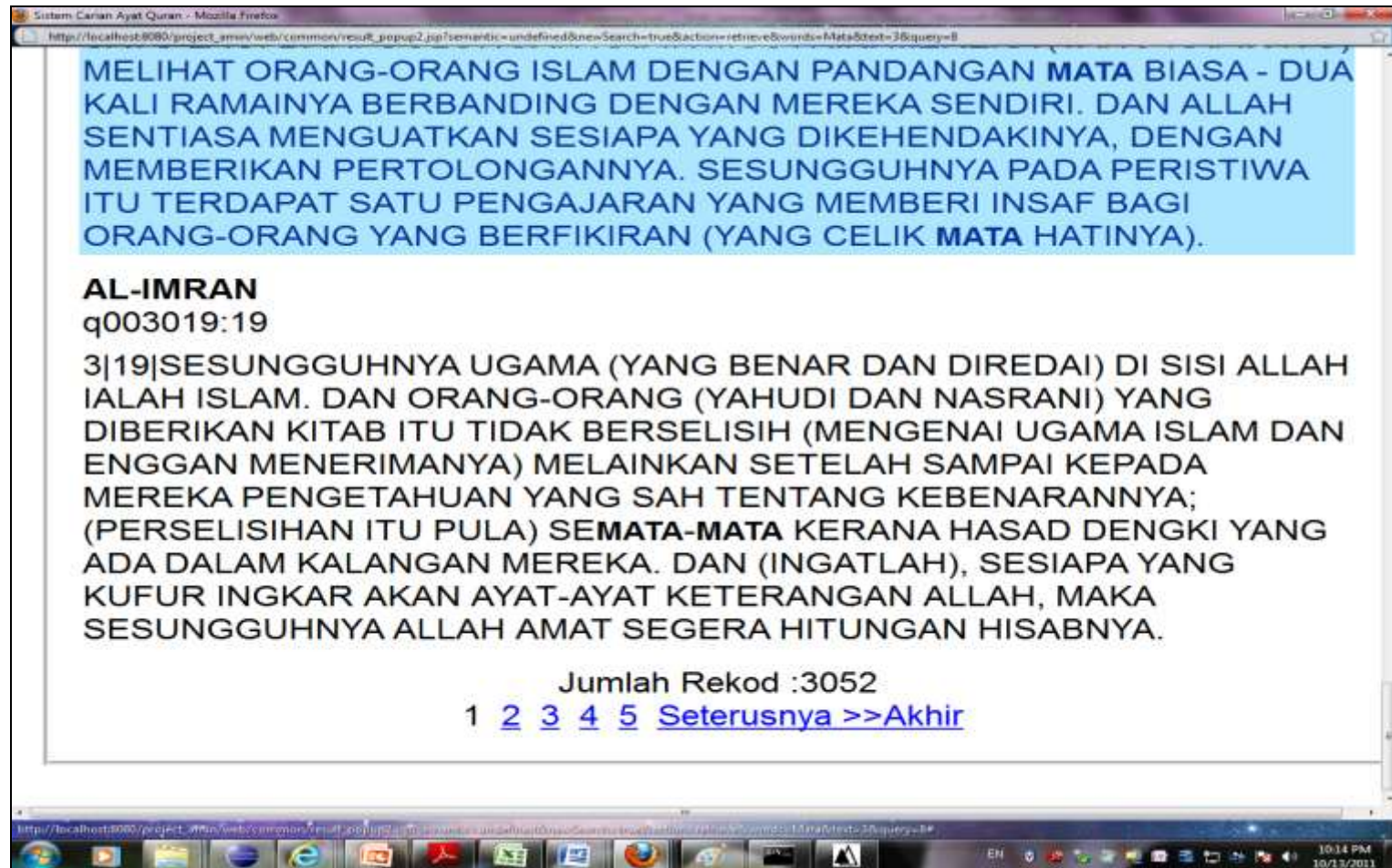


Figure 4.44: Total of Results on Malay Translated 3rd Query

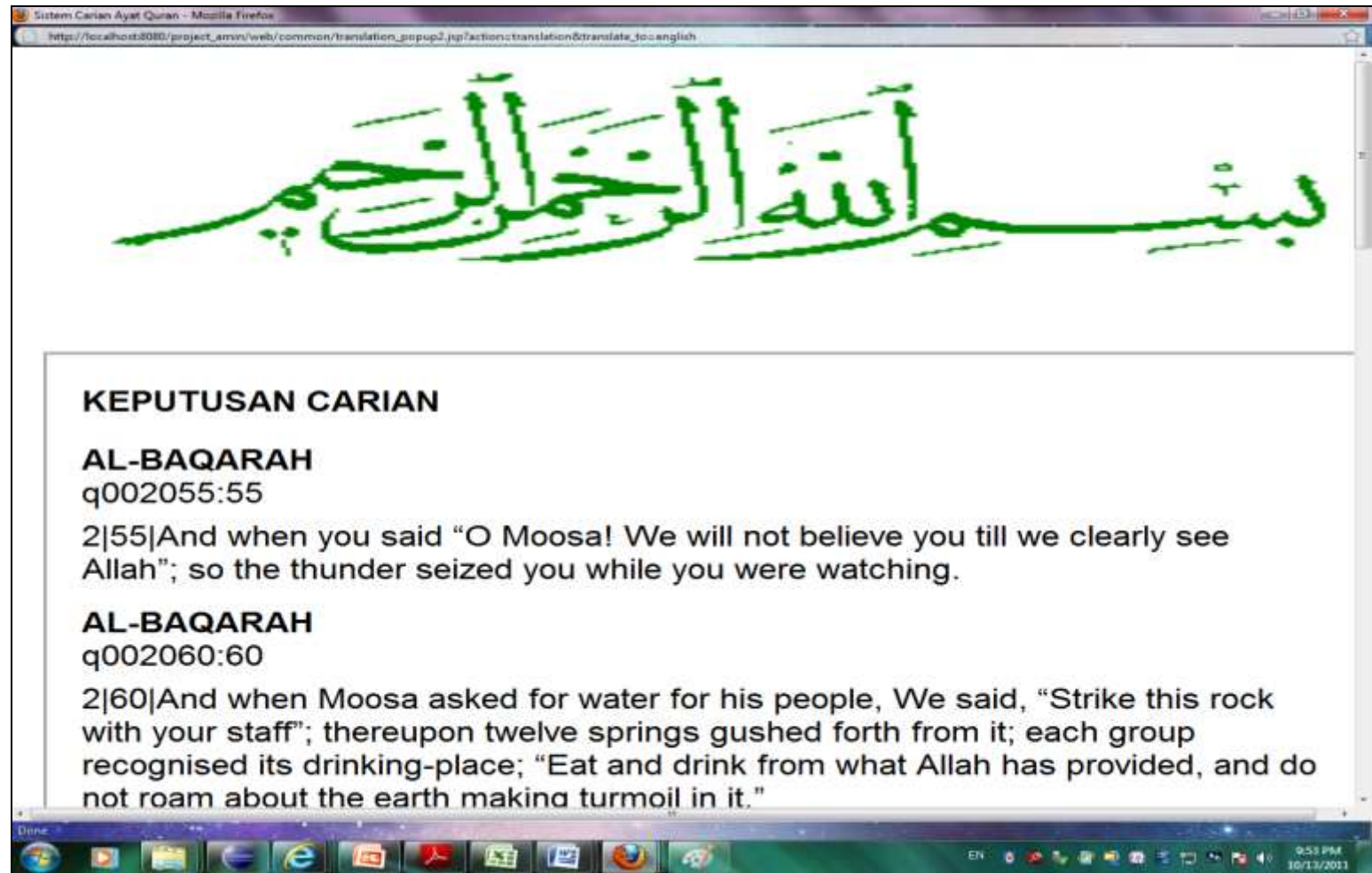


Figure 4.45: MLIR in English based on Numbers of Ayats/Verses in Malay Result

Sistem Carian Ayat Quran - Mozilla Firefox
 http://localhost:8080/project_amin/web/common/translation_popup2.jsp?action=translation&translate_to=arabic

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

KEPUTUSAN CARIAN

البقرة
 q002055:55
 وَإِذْ قُلْتُمْ يَا مُوسَىٰ لَنْ نُؤْمِنَ لَكَ حَتَّىٰ تَرَىٰ اللَّهَ جَهْرَةً فَأَخَذَتْكُمُ الصَّاعِقَةُ وَأَنْتُمْ تَنْظُرُونَ|2|55

البقرة
 q002060:60
 وَإِذْ أَسْتَسْقَىٰ مُوسَىٰ لِقَوْمِهِ فَقُلْنَا اضْرِبْ بِعَصَاكَ الْحَجَرَ فَانفَجَرَتْ مِنْهُ اثْنَتَا عَشْرَةَ عَيْنًا قَدْ عَلِمَ كُلُّ أُنَاسٍ مَشْرَبَهُمْ كُلُوا وَاشْرَبُوا مِنْ رِزْقِ اللَّهِ وَلَا تَعْتُوا فِي الْأَرْضِ مُفْسِدِينَ|2|60

البقرة
 q002074:74

Done

EN 9:54 PM 10/13/2011

Figure 4.46: MLIR in Arabic based on Numbers of Ayats/Verses in Malay Result

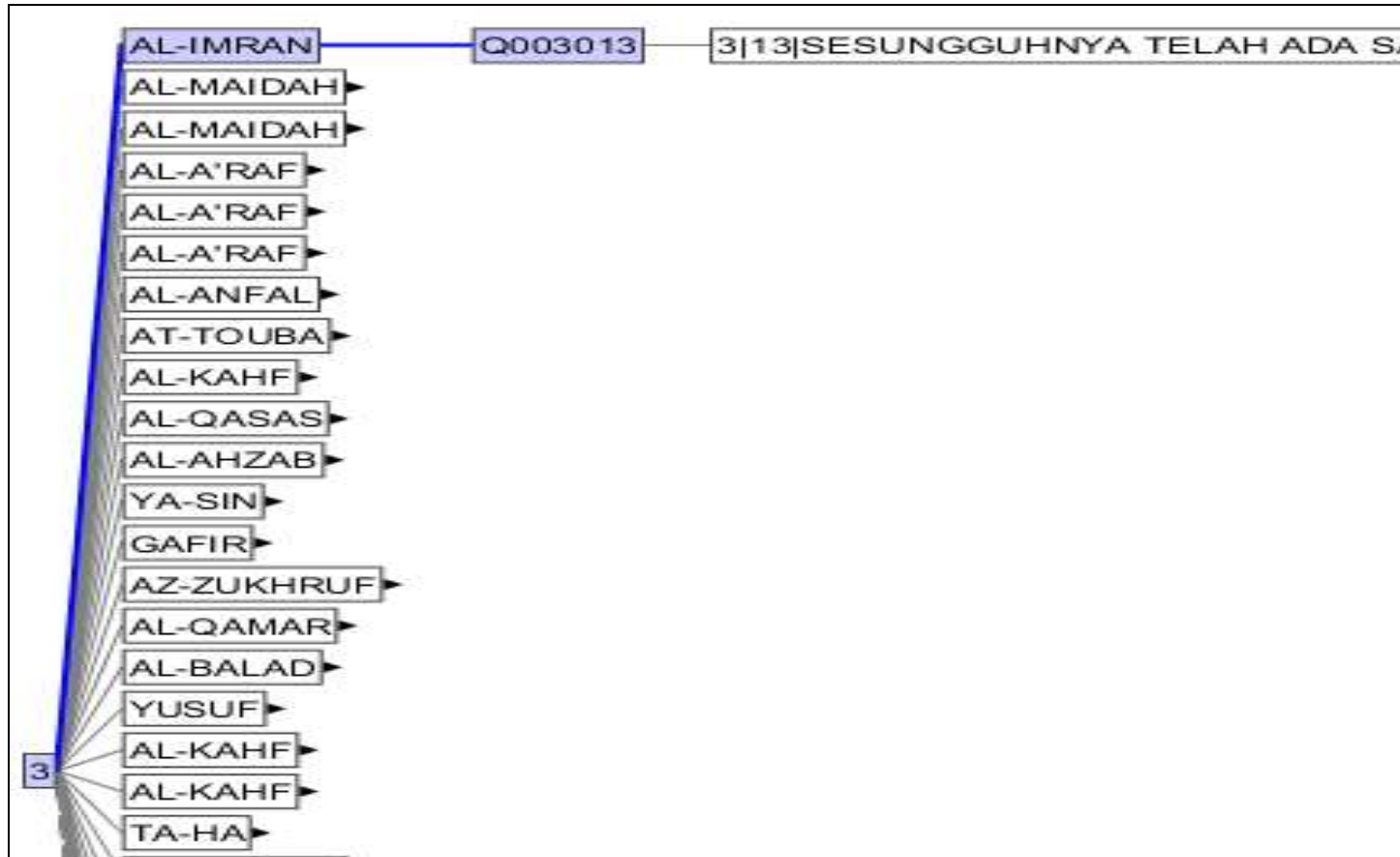


Figure 4.47: SpaceTree Visualization based on Translated 3rd Query in Malay Result

4.9 Summary

The result of the experiments have been analysed based on percentages of recall and precision. StSTQ shows better performance in retrieving results in K and Q in the specific language compared to StTQ and STQ. The queries need a stemming and semantic dictionary to support and translate words and then expand those words for their synonymous words in the target language for queries or documents. The translated queries with the collective synonymous words can retrieve relevant and related verses to meet close to 100% of user's query as relevant results. Effective semantic approach depends on how many synonymous words are there in the dictionary for each word in the query. This means that the more synonymous words provided for each word in the query to be stemmed and processed, the more relevant and related the results to be retrieved at higher recall and precision percentages. The simplest query words are Malay that indicates 97.27% in terms of average percentage of recall. Arabic language has many stopwords than other languages such as 'alif' character. The most difficult part in implementing the lexical semantic dictionary is to remove the diacritics or Arabic signs in the programming part.

5.0 CONCLUSION

5.1 Overview

This chapter discusses on addressing the research objectives, significance of study, limitation of the study and further research work. Addressing the research objectives can determine whether the experimental results and analysis of this study have met the research objectives or otherwise. The significance of the study describes the success of QR performance in retrieving more relevant verses to meet users' queries through query expansion. The limitation in the research includes the lack of synonymous words in the lexical semantic dictionary from the credible external references. Further research work extends towards visualisation of query expansion result in 3D in QR and Hadiths retrieval.

5.2 Addressing the Research Objectives

This study has found impressive findings and result analysis during the empirical experiments based on query expansion technique through StSTQ. The findings and result analysis that have met the research objectives successfully are as follows:

- i. to develop algorithm of query expansion based on stemming, semantic and translation query in cross language Quranic retrieval

The query expansion in QR is suited to the lexical semantic dictionary to retrieve better results and help to search verses in other languages. The experiments include the semantic technique that assigns each word in the translated query with its synonymous words to retrieve verses. The experiments also include the effective stemmer that removes all the affixes of all words and synonymous words in the translated query and

Quran verses collection simultaneously to retrieve more verses. The combination of semantic Quran ontology and effective Malay, English and Arabic stemmers have improved QR and yielded more retrieved and relevant documents based on stemmed semantic translated query and stemmed documents (StSTQ) than stemmed translated query (StTQ) and semantic translated query (STQ). This study also indicates that StTQ and STQ are more significant if both are integrated to enhance QR result performance. The integration of both techniques can improve query expansion in terms of precision and recall of the 36 queries successfully in Q than keywords (K). As a result, the recall values achieve higher percentages for the tested queries than precision.

- ii. to develop a prototype of cross language Quranic retrieval system for Malay, English and Arabic based on Stemmed Semantic Translated Query (StSTQ)

The new framework of the prototype system improves the QR performance as shown in Figure 5.1. The framework explains the comparison of StSTQ, STQ and StTQ in retrieving Quranic verses. The system checks to remove the stopwords in the query such as 'a', 'the', 'be', 'will', 'can', and others. It translates the query in source language (TQ). Then, the translated query looks up for its synonymous words in the dictionary (STQ). Afterwards, it removes all the affixes words and synonyms in the query through the stemming process in order to match them with their root words. Query expansion significantly forms StSTQ that comprises StTQ and STQ. The StSTQ has significantly improved the QR processes in order to retrieve more relevant results in the target language. The relevant results retrieval is then presented on SpaceTree significantly for better understanding of the QR results.

The proposed algorithm used for searching the Quran result via input keyword and queryword can be described by the following steps.

1. Check if words are available in a query (stopwords removal in a specific language)
2. Check each word to be matched if available in the dictionary and get its line to match with its translation in the same line
3. Generate synonyms for each word in the same line, if not, go to 4
4. Remove all the affixes for synonym by synonym or word by word in a query, if not, go to 5 or 6
5. Remove all the affixes for synonym by synonym or word by word in a query and words in verses collection in a specific language, if not, go to 6
6. Generate the result with the matching string or character in both sides and remove verses with the same verse number (querywords), if not, go to 7
7. Generate the result with the matching string or character in both sides (keywords)
8. Check verses numbers in retrieval with the verses in the relevance judgment
9. Divide by the total retrieval and divide by the total manual gained
10. Show the result interface if not,
11. Present the visualized result

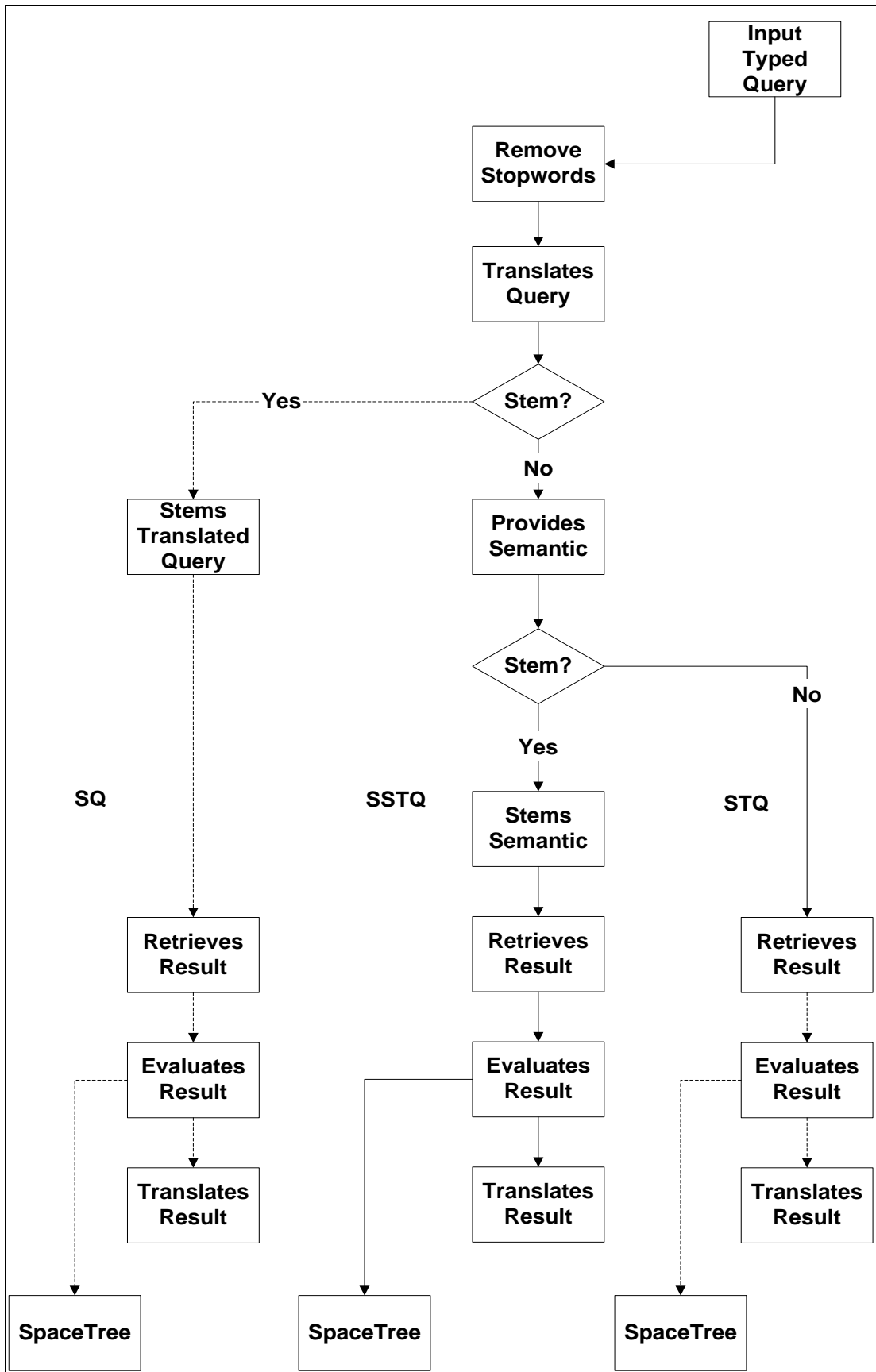


Figure 5.1 : The Framework of the Prototype System

- iii. to evaluate the performance of the prototype system of the cross language Quranic retrieval

This study involves important tests to improve the single translated 36 queries in linking to the matched relevant synonyms and stemmed synonyms. The query expansion through semantic technique generates the necessary and comprehensive Quran information and three principal empirical experiments were conducted in retrieving relevant verses from the Quran text in Malay, Arabic and English. The experiments consist of StSTQ (Stemmed and Translated Semantic Query), StTQ (Stemmed Translated Query) and STQ (Semantic Translated Query) for English, Arabic and Malay. In the analysis of English verses collection, StSTQ indicates an average precision percentage of 77.52% and 84.12% in keyword (K) and queryword (Q) respectively and the average recall percentage of 97.83% and 96.19% in K and Q respectively. In Arabic verses collection, StSTQ shows average precision percentage of 80.03% and 85.84% in K and Q respectively and the average recall percentage is 95.24% and 96.94% in K and Q respectively. In Malay verses collection, StSTQ results in average precision percentage of 80.96% and 85.26% in K and Q respectively and the average recall percentage is 98.68% and 97.27% in K and Q respectively. The results have been analysed and evaluated and StSTQ is found to have higher average recall and precision percentages in K and Q compared to StTQ and STQ.

5.3 Significance of the study

The query expansion technique through combination of translation, semantic and stemming techniques helps QR to be performed successfully. Firstly, the research benefit shows better QR performance by using a trilingual dictionary, which consists of semantic Malay, Arabic and English words rather than monolingual dictionary.

Secondly, it is shown clearly in the results analysis that the semantic technique can help QR through stemmer algorithms and translation techniques to form StSTQ and present many relevant Quran verses in Malay, English and Arabic. Thirdly, it is indicated that the Quran verses result is beneficial for the people in understanding Quran in terms of translation and annotation due to the StSTQ technique. The Muslims can also improve their understanding and interpretation to deal with their arguments. Fourthly, the automatic query expansion technique with SpaceTree dynamic visualisation can reduce information disorientation and overload in the traditional view. Fifthly, it is inferred that the more experiments conducted and tested, the more improvements can be suggested and recommended for future researches. Lastly, it is also indicated that the conflation techniques are more beneficial for more extended researches.

5.4 Limitation

The research limitation concerns on the limited lexical semantic dictionary based on synonymous words available for each language in tri-lingual dictionary. This study includes the lack of synonymous words in semantic tri-lingual dictionary in Malay, English and Arabic from credible external references. However, the semantic tri-lingual dictionary in Malay, English and Arabic are according to Kamus al-Farid as non-semantic tri-lingual dictionary (Mohd Puhzi, et al., 2009). The additional synonymous words for each word in Malay has been referred to “Sinonim Inggeris-Melayu, English-Malay Synonyms” (Hassan, 1994); English has been referred to “Oxford dictionary of Synonyms and Antonyms” (Clays, 2007); Arabic has been referred to “Using Arabic Synonyms languages” (Dilworth, 2010). The limit of the last line number of each language in the dictionary is 1324. However, the total synonymous words of each language are different at each line or in a file.

The tested natural query language also limits to 36 queries only for each language which are evaluated based on precision and recall percentages. The retrieval evaluation is limited to Quran verses content in classical Arabic, Malay and English regardless the linguistic study whereby only one Quran translation is employed in Malay and English. The stemmers employed in this study are limited to the minimal algorithm regardless the over-stemming, under-stemming and structure of words in the verses especially in the classical Arabic words in Quran compared to modern Arabic words. It means that the Arabic stemmer is suitable for stemming the modern Arabic words in the typical documents rather than in classical Arabic Quran verses.

5.5 Further Research Work

This research work has set up the platform of query expansion technique that comprises query translation, lexical semantic technique, stemming algorithm and SpaceTree visualization to improve Quran retrieval. It will be more interesting to explain certain word or ayat to the users in pictures and 3D data visualization. This research should be beneficial for integration of Quran and Hadith. The extended work should update and develop a variety of synonymous words from credible references.

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APPENDICES

APPENDIX A

Stopwords

Malay	English	Arabic
<p>ada adakah adakan adalah adanya adapun agak agar akan aku akulah akupun al alangkah amat antara antaramu antaranya apa apabila apakah apapun atas atasmu atasnya atau ataukah ataupun bagaimana bagaimanakah bagi bagimu baginya bahawa bahawasanya bahkan bahwa banyak banyaknya</p>	<p>a about above according across actually adj after afterwards again against all almost alone along already also although always among amongst an and another any anyhow anyone anything anywhere are aren't around as at b be became because become becomes becoming been before beforehand begin beginning behind being below beside besides between beyond billion both but by c can can't cannot caption co. could couldn't d did didn't do does doesn't don't down during e each eg eight eighty either else elsewhere end ending enough etc even ever every everyone everything everywhere except f few fifty first five for former formerly forty found four from further g h had has hasn't have haven't he he'd he'll he's hence her here here's hereafter hereby herein hereupon hers herself him himself his how however hundred nn i i'd i'll i'm i've ie if in inc. indeed instead into is isn't it it's its itself</p>	<p>ب ا ا ، عشر بعدد عدة عشرة عدم عام عرفات عند عندمان عندما على على على يهعد يها عمدا ية زيارة سد ب تم بر سارا يي فو سنة سوريا سنوات تشرين تم تموز ضد ب عد ب عض اعادة اعلن اعلنت حزب حزيران ب سد بب اسراند يل ح سين حتى اتد فاق صرب اذا احداثر غزة برس غدا باسم اجتماع شخصا ص باح اطار اربية ب بغداد اخرى باريس راب بين شرق بان اب و اجل غير حركة رند يس جديدة اطلاق ب شكل ب طولية صد يفة حال يا بن به ثم اف ان اوي بها جهة ص فر حيث اكد الاما العسكرية العراق العاصمة العربية العراقي العراق العام العالم العلاقات العمل امس السعودية عة السبت السا السابق روسيا السلطة السلطات السلام التعاون التحرير التي التي اك توير دورة اك ثرا يار ايضا الجزائر حماس</p>

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		<p>الاسراند يلي الاسراند يلية الاسد بوع الاسلحة الاسلامية ذكرت الاتحاد الاتفاق ثلاثة الحرب الاحد الذات ي اعاد شرطة الاربع المغربية الخارجية الاردن الشرق ايران الحدود الردن يس الاخيرة الثاني الثانية الاتنين شمال بدمشق الذي الذي الان امام ايام خلال الشيخ الجيش الدور الضفة الجمعة بيري ز الوسط الروسي البوسنة الروسية ببيروت الاتتخابات البلاد الدفاع الثلاثاء الاتباء لاوروبي الاتثلاثاء حوالي الذين الدول الحكم الامم الامن الاول الدولة الخليج الخمس الامم يركي الامم يركية الدولي الاولى الدولية الحكومة ب بين ذلك دول دون حول حين الف الذي انه اول ضمن جنوب دولة انها جمع الوزراء الم تحدث الم تحدة دولار النار الوضع القدس المقدسة اقدم صدر الم بار</p>
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		<p>المصري الماضي المصرية المرحلة القدم اللجنة المجلس الفرسي الفرسية القاهرة المدينة الامانيا الوطنية لمجموعة الله الفلسطيني الفلسطينية الفلسطينيين الوقت المقرر القوات النهائي المقبل المنطقة الولايات ضات الملك المفاو اليمن اليوم اي لول الكويت - ف و 6 قد لا مامع وزارة وزير مساء ق تل كرة مصر هذا فاز كأس ياسر قرار مصدر واحد قطاع مصادر مباراة مبارك و اضاف واضافت فرانس واشنطن فان قبل قال كان لذي نحو هذه وان محمد واكد يذكر مجلس فرنسا كريد ستوفر وضح لبنان كانت وا مايو و مدينة مجموعة كانون في في كل لمن له من هو هي قوة كما لها منذ وقد ولان فسه موسكو مقتل لقاء لكرة نقطة قوات مقابل لندن هناك وقال وكان منطقة منظمة نهائية وكالة وقالت وكانت للامم في به</p>
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		<p>كلم لكن وفي وقف ولم ومن وهو وهي يوم فيها منها مديار لوكالة يكون يمكن كل ينتون مليون يوليو يونيو نيويورك المصري الماضي المصرية المرحلة القدم اللجنة المجلس الفرنسي الفرنسية القاهرة</p>
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APPENDIX B

Lexical Semantic Dictionary

Malay

1. makan		melantak		santap
2. terbiar		ditinggalkan		terabai
3. meninggalkan		menjauhi		
4. mengaibkan		memalukan		memburukkan
5. memalukan		mengaibkan		
6. pemberhentian		diberhentikan		
7. tempat(sembelih)		pembantaian		pejagalan
8. peringkasan		meringkaskan		
9. turun(takhta)		makzul		
10. tindakan(turun takhta)				melepaskan
11. menyimpang		membelok		tersasar
12. bersubahat		berkompromi		bersekongkol
13. ibrahim		lelaki	nabi	rasul
14. udara	angin		hawa	
15. malaikat				makhluk ciptaan Allah drpd Nur cahaya
16. dikurung		dipenjara		
17. memujuk		merajuk		
18. membencanakan		membinasakan		
19. bencana		malapetaka		
20. menghitung		mengira		
21. kalifah		ketua		
22. membatalkan		meniadakan		menggagalkan
23. kebolehan		keupayaan		kemahiran
24. berkebolehan		berkeupayaan		
25. menawan		cantik		
26. penyayang		pengasih		pencinta
27. belaian		usapan		pujukan
28. syahwat		nafsu		
29. ubi kayu		makanan		
30. terdampar		terbaring		
31. tambak		tebing		penghalang
32. berhati-hati		berwaspada		
33. meraikan		menjamu		keramaian
	perayaan			
34. pasti	tentu	mesti	sah	

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35. kepastian	ketentuan	kemestian	
kesahihan			
36. kristian	aqama		
37. benci	menyampah		
38. kebencian	permusuhan	kemarahan	
39. kepatuhan	ketaatan	kesetiaan	
40. berkekalan	bersahabat	berhubung	
41. kebolehan	kelayakan	kecekapan	
42. hina	keji	sangat rendah	
43. kehinaan	kekejian		
44. ikrar	janji		
45. pelik	ganjil		
46. menghapuskan	membinasakan		
47. ibrahim	lelaki	nabi	rasul
48. memansuhkan	menghapuskan	membubarkan	
49. pemansuhan	pembalahgatalan	penghapusan	memansuhkan
50. menyalahgunakan	disalahgunakan		
51. terima	ambil		
52. menyempurnakan	menyiapkan		
53. penyempurnaan	menyelesaikan	melengkapkan	menunaikan
54. bergantung	mengharap		
55. berkumpul	berhimpun		
56. tepat	betul		
57. menuduh	menyalahkan	menunjuk	mengatakan
58. membiasakan	lazim	teradat	koman
59. mancapai	menjengkau	menggapai	
60. masam	asam	masam	kucam
61. kemuncak	tinggi		
62. memperolehi	memiliki	mendapat	
63. adam	lelaki	kekasih	
64. mencukupi	memadai	memenuhi	
65. melekat	berlekat		
66. bersempadan	seberang	bersebelahan	
67. ditangguh	dianjak		
68. memutuskan	meleraikan		
69. dihukum	dipersalahkan		
70. merayu	memujuk	meminta	
71. mentadbir	memerintah		
72. mengagumkan	mempersona		
73. pemuja	peyembah		
74. membenarkan	mengizinkan		

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75. menegur	menyapa	mengajak
76. remaja	dewasa belia	
77. amalkan	menuntut	
78. menghiasi	mencantikkan	
79. dewasa	matang baligh	matang besar
80. pezina lelaki	fajir	
81. kelebihan	keistimewaan	
82. musafir	pengembara petualang	perantau
83. menasihati	berpesan berwasiat	
84. menyokong	menyebelahi	
85. kepura-puraan	palsu	
86. pengasih	penyayang	
87. pergaduhan	perkelahian pertengkaran	perbantahan rusuhan
88. terbakar	tertunu	
89. umur	usia baya	
90. melekat	berlekat	
91. lincah	cergas giat	pantas
92. bersetuju	berbetulan bertepatan	
93. bantuan	pertolongan sokongan	
94. uzur	sakit berpenyakit	gering
95. udara	hawa angin	
96. semua	sekalian seluruh	segala
97. barisan	deretan	
98. membenarkan	membetulkan membolehkan	
99. hampir	dekat rapat	
100. sedekah	sumbangan derma	bantuan
	dana pemberian kebajikan	
101. sepanjang pantai	kukup	tebing
102. menyendiri	berseorangan	
103. huruf	lambang	aksara vokal
	konsonan	
104. bersedia	sanggup	rela sudi
	dapat	
105. berubah	pertukaran	
106. berganti	bertukar	bergilir
107. cadangan	pendapat fikiran	
108. terkumpul	terhimpun	
109. suasana	keadaan	situasi
	perihal	
110. meluaskan	melapangkan melebarkan	membesarkan
111. bernyawa	roh jiwa	hayat usia

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112.	kebimbangan	kerisauan	kerunsingan	
113.	bimbang	risau	runsing	
	khuatir	cuak		
114.	melantik	menentukan	menetapkan	
	mengesahkan			
115.	menghargai	menyanjung	menjasai	menjunjung
116.	lulus	lepas	terus	berjaya
117.	arab	negara	persatuan	
118.	orang arab	manusia	orang	insan
	makhluk			
119.	susun	longgok		
120.	tangkap	cekup		
121.	angkuh	sombong		
122.	bersekutu	berkawan	bergabung	bersepakat
	bersatu			
123.	bergaul	bercampur	berkenalan	berkawan
124.	ganjaran	hadiah	balasan	
125.	jauh	dura		
126.	menggerunkan	menakutkan	mengerikan	gerun
127.	sekejap	sementara		
128.	bayi	anak		
129.	mengumpat	mencela	mengejek	
	memburukkan	mengutuk		
130.	mencemari	mengotori	menodai	
131.	minta	mohon		
132.	mula	sulung	awal	
133.	percaya	yakin	beriktikad	pasti
134.	kewujudan	ada	nyata	benar
135.	punya	ada		
136.	belot	khianat	derhaka	tualang
137.	besar	agung	raksasa	gadang
138.	kosong	melompong		
139.	menipu	muslihat	helah	dusta
140.	otak	fikiran	akal	benak
	minda			
141.	roti	makanan		
142.	bernafas	menyedut	bernyawa	
143.	perniagaan	firma		
144.	byzantine	empayar		
145.	kurung	disimpan	dipenjara	
146.	kaherah	tempat		

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147.	memujuk		merayu		
148.	mengira		membilang		
149.	memanggil		menyebut	meneriak	
150.	tenang		aman	damai	tenteram
151.	mampu		berada	berharta	boleh
	sanggup				
152.	menawan		cantik	menarik	
153.	tanggungjawab		tugasan		
154.	memotong		memenggal	mengerat	
155.	kejadian		peristiwa		
156.	menangkap		memerangkap	mencerap	
157.	meraikan		menyambut		
158.	pusat		punca	tumpuan	pangkalan
	sasaran				
159.	istiadat		upacara	majlis rasmi	
	pengisytiharan				
160.	bayaran		gaji	upah	
161.	berbual		bercakap		
162.	menipu		pembohong		
163.	penghalang		perintang	penahan	
164.	anak		janin	kandungan	lembaga
	fetus	bayi			
165.	bandar		kota	pekan	kota raya
166.	tutup		sembunyi		
167.	pakaian		baju		
168.	awan		motif	pola	
169.	pegang		menggenggam	memaut	
170.	kereta kuda		bogi		
171.	ayam jantan		mandung	jalak	bacul
172.	memaksa		mendesak		
173.	mengumpul		memusatkan		
174.	mengumpul		memusatkan		
175.	menyusahkan		menyulitkan	menyukarkan	
176.	mengikut		mematuhi	ikut telunjuk	
177.	membawa diri		berhijrah	mengembara	
178.	membentuk		melengkung	melentur	
179.	menyembunyikan		menyorok	melindungi	
180.	mengalah		menumpaskan	menewaskan	
181.	memikirkan		mengenangkan		

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182.	menumpukan	memfokuskan	menekankan	
183.	perhimpunan konvensyen	perkumpulan	meramaikan	
184.	gundik	bini	kendak	candik
185.	nafsu berahi dorongan hati	keinginan	kemahuan	kehendak
186.	setuju	akur		
187.	persetujuan	keakuran	kata bulat	seia sekata
188.	mengutuk	menyumpah	melaknat	mengata
189.	gabungan	ikatan	balutan	
190.	pengakuan	penyataan		
191.	tempat mengadu	kaunselor		
192.	keyakinan	kepercayaan		
193.	batas	had	halangan	
194.	mengesahkan	membenarkan		
195.	penyitaan	penutupan	pengharaman	
196.	menggabungkan	penyatuan		
197.	pertempuran	peperangan	pergaduhan	
198.	bentuk	rupa		
199.	mendatangi	menghadiri		
200.	mengelirukan	mbingungkan		
201.	membuktikan	mengesahkan	meyakinkan	
202.	kesesakan	kepadatan	kesendatan	kesempitan
203.	berhimpun	berkumpul		
204.	bersambung	berhubung		
205.	bersubahat	kolaborator		
206.	penaklukan	penjajahan		
207.	hati nurani	hati bersih	budi pekerti	
208.	kesedaran	keinsafan	cakna	
209.	mempertimbangkan	memikirkan		
210.	kumpulan	pasukan		
211.	perlembagaan	perundangan		
212.	perundingan	perbincangan		
213.	penyempurnaan	melengkapkan		
214.	menyentuh	merasa		
215.	pencemaran	pengotoran		
216.	debat	bahas		
217.	menyumbang	memberi		
218.	kuasa	daya	kemampuan	keupayaan
219.	bersidang	berbincang		
220.	pesalah	penjahat		

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221.	bersetubuh	berjimak		
222.	persetubuhan	penyatuan		
223.	kemesraan	keeratan		
224.	lembu	binatang		
225.	mudah rosak akhlak	terpengaruh		
226.	penciptaan alam	pemerintah alam		
227.	pencipta	pereka		
228.	makhluk	hidupan		ciptaan Allah s.w.t
229.	menangis	merintih		
230.	perempuan tua	nenek		
231.	tanaman	pendaman		
232.	ramai	penuh	padat	banyak
233.	kejam	zalim		
234.	mengusahakan	memajukan		
235.	peredaran	putaran		
236.	kerusakan	kehancuran		
237.	damsyik	tempat		
238.	bahaya	berisiko		
239.	kegelapan	kelam		kehitaman
240.	anak perempuan betina	remaja		kaum hawa
241.	menantu perempuan	wanita	kaum hawa	isteri
242.	kemerosotan	kemelesetan		kejatuhan
243.	kematian	kewafatan		
244.	menipu	berbohong		
245.	menentukan	menetapkan		
246.	menurunkan darjat	merendahkan martabat		
247.	kemerosotan	kemelesetan		
248.	pembelotan	penyelewengan		
249.	mempertahankan	memperteguhkan		menyokong
250.	penangguhan	pemindahan		
251.	merendahkan	menjatuhkan		
252.	memperdaya	menipu	berbohong	
253.	desakan	paksaan		
254.	gudang	stor	depot	kepuak
255.	merosakkan akhlak	membinasakan		tingkah laku
256.	kehinaan	kutukan		
257.	mengutuk	mengata		
258.	menekan	mendail		
259.	tergelincir	terjatuh		
260.	mewakilkkan	mewariskan		

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261.	terbiar	terabai		
262.	mempersendakan	mengejek	ketawakan	
263.	berasal	berpunca	permulaan	sumber
264.	keberanian	kekuatan		
265.	keturunan	warisan	zuriat	cucu
266.	menggambarkan	memperlihatkan		
267.	rekabentuk	corak	membentuk	
	mencipta			
268.	pembinasaan	kehancuran		
269.	kebaikan	perelokkan		
270.	pemusnahan	kerosakkan		
271.	pengganas	penjahat	pejuang	
272.	keji	hina		
273.	putus harapan	kecewa		
274.	pemerintah kuku besi	diktator		
275.	kemiskinan	kedaifan	kepayahan	
276.	memusnahkan	merosakkan		
277.	pembinasaan	kehancuran		
278.	meninggalkan	membiarkan		
279.	tersangkut	terlekit	terjahit	
280.	tahanan	dipenjara		
281.	mengesan	mencari		
282.	kemerosotan	kejatuhan	kegagalan	
283.	penentu	penetap		
284.	merosot	jatuh	gagal	
285.	menentukan	menetapkan		
286.	pembantah	pembanggang		
287.	berkembang	maju		
288.	nakal	degil		
289.	mereka	mencipta		
290.	menumpukan	menekankan	memfokuskan	
291.	kasih sayang	cinta		
292.	berlian	mineral	emas	
293.	perbezaan	kelainan		
294.	kesukaran	kepayahan		
295.	maruah	martabat		
296.	bercanggah	terpesong		
297.	percanggahan	salah faham		
298.	hilang	lupa		
299.	mengecewakan	menghampakan		
300.	tidak berkenan	tidak suka		

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301.	bencana	malapetaka	kehancuran	kebinasaan
302.	membubarkan		membatalkan	
303.	pengikut		anak buah	
304.	menyulitkan		menyusahkan	
305.	perbalahan		pergaduhan	
306.	syarahan		ucapan	
307.	percanggahan		salah faham	
308.	penemuan		pencarian	
309.	budi bicara	budi perkerti	adab	kelakuan
	perangai			
310.	membezakan		mentamtizkan	
311.	memperhinakan		mengeji	
312.	penyakit		masalah	
313.	mengecewakan		menghampakan	
314.	penyamaran		penipuan	
315.	keaiban		kenistaan	stigma
316.	jijik		hina	
317.	keaiban		kenistaan	stigma
318.	penghancuran		pembinasaan	
319.	tidak berminat		meyampah	meluat
320.	mengecil-ngecilkan		mengerdikan	memperlekehkan
321.	penghantaran		pemasaran	
322.	penyebaran	diayah		pewahyuan
323.	penyebaran	diaspora		
324.	peragaan		pertunjukkan	
325.	perampasan	peroncean	penjabalan	pembegalan
326.	membuktikan	salah benar	mensrea	bukti
327.	penyangkalan	penafian	pembantahan	
	pengingkaran			
328.	pertikaian		pergaduhan	
329.	pertikaian		pergaduhan	
330.	kebimbangan		kerisauan	
331.	gangguan		kekacauan	
332.	penentangan		pemberontakkan	
333.	tidak puas hati	dendam		iri hati
334.	membedah		membelah	
335.	orang kaya yang tidak	bermoral		orang mewah yang bongkah
336.	penderitaan	kesakitan		keperitan
337.	pembahagian		pengasingan	
338.	kesangsian		keraguan	
339.	pelaksana		pengerak	

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340.	penguasaan	memperketatkan		
341.	berani	mampukuat		
342.	murung	sedih		
343.	hantaran kahwin	sesai	belanja	hangus
344.	mendadak	cepat		
345.	bermimpi	berkhayal		
346.	tukang jahit	orang		
347.	minuman	cecair		
348.	pemambuk	tukang mabuk		
349.	orang suruhan	hamba		
350.	keraguan skeptisisme	khilafiah	mencabar	
351.	habuk	celak	serbuk	
352.	berminat	kecenderungan		
353.	pangkat	darjat		
354.	pendapatan	gaji		
355.	bumi	planet		
356.	kesenangan	keselesaian		
357.	makanan	kalengan		
358.	kegembiraan	keseronokkan		
359.	jimat	cermat		
360.	kegelisahan	kerisauan		
361.	pendidik	pengajar		
362.	pendidikan	pelajaran		
363.	pemadaman	memadamkan		
364.	kesan	hasil	tindak balas	
365.	keberkesanan	mujarab		
366.	keperempuanan	keayuan		
367.	membuih	membusa	mengelembung	
368.	usaha	langkah	cara	
369.	bersinar-sinar	bercahaya		
370.	hala tuju	matlamat		
371.	air mani	cecair		
372.	pancutan gunung berapi	lava		
373.	mengangkat			
374.	penaikan	menaikkan	penaikan	meningkatkan
375.	mengugurkan	menjatuhkan		
376.	menyingkir	membuangkan		
377.	penyingkiran	dibuang		
378.	lari bersama kekasih	melarikan diri	pelarian	
379.	petah berkata-kata	fasih		

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380.	menerangkan	menjelaskan		
381.	mengelakkan diri	pengelak	mengumpamakan	
382.	sukar ditangkap	susup		
383.	mengkuruskan	menkecilkan		
384.	kurus kering	keding		
385.	bebas	terlepas		
386.	benteng	pertahanan		
387.	menaiki kapal	belayar	konvoi	
388.	memalukan	mengaibkan		
389.	sedia untuk bertempurrela	sanggup		
390.	membenamkan	menekankan	memperonyokkan	
	menikamkan			
391.	menghiaskan	mencantikkan		
392.	merasa marah	meradang	bengkeng	
393.	lambang	logo		
394.	terjelma	muncul		
395.	memberanikan	menggagahkan		
396.	kuala hulu	muara	hilir	
397.	pemancar	penyiar		
398.	perasaan	soal hati	jiwa	
399.	pekerja	kuli		
400.	pemilik perniagaan	ketua		
401.	kosong	lompong	losong	lubang
402.	disihir	dijampi		
403.	mempesonakan	menawan		
404.	perempuan penggoda	enchantress	feminisma	
405.	pertemuan	perjumpaan		
406.	tamat	akhir	penghujung	
407.	pengukir	membentuk	mereka	
408.	mengasyikkan	mengkhayalkan		
409.	menambah	membanyakkan		
410.	berseronok	bergembira		
411.	permusuhan	perbalahan		
412.	terbesar	meluas		
413.	cukup	ngam	genap	sampai
414.	mengayakan	membanyakkan		
415.	meraikan tetamu	melayan tetamu		
416.	menarik	cantik	menawan	
417.	irihati	dengki		
418.	suasana	keadaan		
419.	kesalahan	kesilapan		

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420.	bersendawa	kuar angin	kenyang	
421.	meletup		terpecah	
422.	teman	kawan	sahabat	
423.	mendirikan	melaksanakan		
424.	penubuhan	persatuan		
425.	sedap didengar	merdu	temberang	
426.	menilai	mengkaji		
427.	penilaian	pengujian		
428.	hawa	perempuan	angin	
429.	rata	datar		
430.	siang	pagi		
431.	peristiwa	kejadian		
432.	pengusiran	menghalau	pengusir	penghalau
433.	pengusir			
434.	bukti	fakta	maklumat	
435.	jahat	buruk laku	jelik	nakal durjana
436.	memperlihatkan	menunjukkan		
437.	membangkitan	menaikkan		
438.	berkembang	meluas		
439.	memadamkan	mematikan		
440.	mata	pancaindera	ain	
441.	dongeng	tipu		
442.	berseloroh	bergurau senda	cuit	bermain-main
443.	memudahkan	menyenangkan		
444.	fakta	bukti		
445.	buatan manusia	ciptaan		
446.	ikut-ikutan	tiru-tiruan		
447.	kegagalan	kejatuhan		
448.	rela	sanggup		
449.	salah	kurang tepat		
450.	keluarga	famili	kelamin	
	belahan			
451.	terkenal	ternama		
452.	jauh	dura	besar jaraknya	
453.	ladang	kebun	sawah	bendang
454.	mempesonakan	menawan		
455.	puasa	bulan ramadan		
456.	kesuburan	kematangan		
457.	perayaan	rumah terbuka	dasawarsa	
458.	keresahan	kerisauan		
459.	syaitan	iblis		

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460.	api	nyalaan		
461.	menunjuk-nunjuk	riak		
462.	syurga dunia	kenikmatan	kesenangan	kebahagiaan
463.	banjir	bah		
464.	terbang	melayang	mengapung	bergerak di udara
465.	makanan	gizi		
466.	kasut	sepatu	selop	
467.	dapat diramalkan	diduga		
468.	hutan	belukar	rimba	belantara
469.	terlupa	kelupaan	lipur	
470.	memaafkan	mengampunkan		
471.	serta merta	mendadak		
472.	memelihara anak angkat	pelihara anak orang lain		
473.	buah	pencuci mulut	fikiran	
474.	penuh	berisi	padat	tepu
475.	asas	utama	penting	perlu
476.	pengebumian	penguburan		
477.	keuntungan	faedah	lebih	rezeki
	habuan			
478.	kaki judi	suka berjudi		
479.	pergi	menujui	menuju ke	menghala ke
480.	matlamat	objektif		hala tuju
481.	emas	mineral		
482.	baik	faedah	elok	bagus
	berguna			
483.	barangan	barang jualan		
484.	tabiat	sifat	kelakuan	perangai
485.	rambut	uban	surai	bulu
486.	haji	ibadat		
487.	perkampungan desa	luar bandar		
488.	tangan	anggota badan	lengan	
489.	kepala	jemala tendas	akal otak	fikiran minda
490.	kesihatan	kesegaran	kebaikan	
491.	kesihatan	kesegaran	kebaikan	
492.	mendengar	memasang telinga		
493.	syurga	kenikmatan		
494.	neraka	kesengsaraan		
495.	sini	di tempat ini		
496.	bukit	fakta		
497.	tinggi	puncak panjang		melambung
498.	harapan	impian		

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499.	petani	pesawah			
500.	persamaan	perserupaan			
501.	bodoh	bebal	dungu	benak	
	bangang				
502.	mengabaikan	memalukan			
503.	sakit	uzur	gering lesu	lemah	
504.	penganiayaan	penderaan			
505.	menggambarkan	melakarkan	melukiskan		
506.	merayu	meminta	memujuk		
507.	memperbaiki	memulihkan	memperelok	membaharui	
508.	memenjarakan	mengurung			
509.	memberitahu	melaporkan			
510.	pengenalan	mengenalkan	pengetahuan		
511.	penyerangan	melanggar	menyerbu		
512.	menterbalikkan	menjungkirkan	menyongsangkan		
513.	menyiasat	menyelidiki	memeriksa		
514.	mengajak	menjemput	mempelawa		
515.	islam	aqama			
516.	lelaki	pemuda	dewasa		
517.	yakub	rasul	lelaki		
518.	penjara	jel	lokap	kurungan	
519.	isa	lelaki	nabi	rasul	
520.	menyertai	mengikuti	mengiringi	mendampingi	
521.	yusuf	lelaki	rasul		
522.	hutan	belukar	rimba		
523.	keadilan	kesaksamaan	sama rata		
524.	simpan	memelihara	menyorokkan		
525.	kunci	kancing	tutup	selak	katup
	ketap				
526.	membunuh	mematikan	menghilangkan nyawa		
527.	saudara lelaki	adik	abang		
528.	pengetahuan	maklumat	ilmu		
529.	buruh	kuli			
530.	kekurangan	ketidaksempurnaan	kelemahan		
531.	penurut	patuh	taat		
532.	lampu	pelita	lampu suluh	lampu picit	
533.	pemilik tanah	tuan tanah			
534.	besar	luas			
535.	baik hati	pengasih	suka menolong	mudah	
	simpati				
536.	undang-undang	hukum	peraturan		

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537.	pemberi pinjaman	along			
538.	tanggungjawab		kewajipan		
539.	penipu	pengecoh	pembohong		
540.	pembebas	mengeluarkan			
541.	kehidupan	benda hidup			
542.	cahaya	sinar	nur	pancaran	
543.	terbatas	terhad	tersekat		
544.	pengecut	penakut			
545.	beban	muatan	kandungan	isi	kargo
546.	pinjaman	hutang			
547.	mengunci	mengancing	menutup		mengatup
548.	sendirian	seorang diri			
549.	panjang	lampai	junjai		tinggi
550.	melihat	menengok	memandang		
551.	pemerintah	pentadbiran	cara memerintah		
552.	sayang	kasih	cinta		
553.	nasib	takdir			
554.	utama	terpenting	mustahak	amat perlu	
555.	tiang utama	tonggak	turus	pancang	
556.	mengekalkan	memelihara	menjaga		
557.	utama	terpenting	mustahak	amat perlu	
558.	membuat		melaksanakan	memasak	
559.	Tuhan	Maha Esa	Maha Kuasa		
560.	mekah	kawasan suci	tempat beribadat		sejenis
	tumbuhan				
561.	niat jahat	kedengkian	kecemburuan		
562.	jahat	buruk laku	tidak baik	jelik	
563.	mak	ibu	wanita		
564.	mengurus	mengatur	menyusun	mengemaskan	
565.	manusia	insan	hamba Allah		
566.	perkahwinan	pernikahan	ikatan Cinta		
567.	tulang sumsum	urat saraf			
568.	tuan	pemilik	majikan		
569.	kebendaan	barang			
570.	keibuan	kewanitaan			
571.	baligh	cukup umur	dewasa		
572.	sementara	sekejap	seketika	tidak kekal	
573.	sukatan	ukuran			
574.	perubatan	perihal berubat		kaedah	
575.	pesanan	perintah	peringatan		
576.	perutus	penghantar			

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577.	pemikiran	kaedah	cara berfikir		
578.	memperolokkan		mempermainkan	mengejek	
579.	ejean		mempersendakan		
580.	musa	Nabi	rasul lelaki		
581.	muslim		umat islam	muslimin	muslimat
	ummahorang islam				
582.	gunung		jabal	cenuram	
	banjaran	kemuncak		tanah tinggi	
583.	bergerak		bergoyang	beralih tempat	berpindah
584.	Muhammad	Nabi	lelaki	rasul	
585.	emak	ibu	wanita		
586.	telanjang	bogel	bolen	bogang	
587.	leher		anggota badan		
588.	perlu	mesti	wajib pasti	tentu	
589.	jiran		tetangga		
590.	malam	maghrib		senja	
591.	rasa takjub		mengagumkan	menghairankan	
592.	pemeliharaan		penjagaan		
593.	pendayung		pengayuh		
594.	mendengar kata	patuh		taat	ikut arahan
595.	benda	barang			
596.	wajib	mesti	fardu	patut	
597.	kewajiban	kemestian	keharusan		
598.	pemusnahan	pembinaan	penghapusan	penghilangan	
599.	mematuhi	mentaati			
600.	pemerhatian	tinjauan			
601.	memerhatikan	memerhatikan	mengamati		
602.	menghalang	menahan		menegah	
603.	penghuni	penduduk	penunggu		
604.	pekerjaan	tugasan		urusan	
605.	menghuni	menduduki	mendiami		
606.	terjadi	terbentuk	terhasil		
607.	laut	samudera	selat	bahar bahari	
608.	pelik	aneh	ganjil	luar biasa	ajaib
609.	kesalahan	kesilapan			
610.	sambil lewa	tidak bersungguh-sungguh			
611.	Esa	satu	tunggal		
612.	melebihi	melewati	melampaui	mengatasi	
613.	mengalahkan	mengatasi	menewaskan		
614.	mengalahkan	mengatasi	menewaskan		
615.	sakit	uzur	gering	lesu	
	lemah				

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616.	ibu bapa	orang tua		
617.	membayar	membeli		
618.	aman	bahagia	damai	tenteram
	sentosa			
619.	mutiara	mutia		
620.	melaksanakan	menjalankan	mengerjakan	menyelesaikan
621.	pelaksana	pengurusan		
622.	kekal	baqa abadi	malar tekal	tetap
623.	keizinan	kebenaran	keredaan	kerelaan
624.	penyiksaan	penderaan		
625.	kebijaksanaan	kecerdikan	kepintaran	
626.	berpeluh	berkeringat		
627.	berkaitan	bersangkutan	berhubung	berkenaan
628.	merebak	menular		memecahkan
	meruntuhkan			
629.	belas kasihan	mengasihi	menyayangi	
630.	tempat	kawasan	wilayah	daerah
	lokasi			
631.	helah	sebab	dalih	alasan
632.	berani	gagah	perkasa	bahaduri
	kosen			
633.	miskin	fakir	papa	daif
	melarat			
634.	kedudukan	darjat	pangkat	
635.	pemilikan	penguasaan		
636.	kemiskinan	fakir papa	daif susah	
637.	kuasa	pengaruh	kemampuan	kekuatan
638.	amalan	perbuatan		
639.	berdoa	bermohon	meminta	
640.	meramalkan	menjangka		
641.	boleh diramal	jangkaan		
642.	ramalan	tekaan	telahan	
643.	mengandung	hamil		
644.	persediaan	persiapan		
645.	permulaan	awal	pendahuluan	
646.	penyediaan	penyajian		
647.	persediaan	persiapan		
648.	bersedia	bersiap	rela	sanggup
649.	wajib	mesti fardu	patut	hendaklah
650.	tanda	lambang	simbol	cap
651.	penyampaian	pemberian	pemberitahuan	

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652.	tersebar luas	terkenal		
653.	menghalang	mencegah	menegak	menolak
654.	pencegahan	penegahan	penolakan	pengawalan
	pengawasan			
655.	harga diri	maruah	kehormatan	
656.	peribadi	perseorangan	persendirian	keDirian
657.	masalah	kesulitan	kerumitan	kesukaran
	kemusykilan			
658.	bergerak	bergoyang	berpindah	
659.	berarak	berjalan	beriringan	
660.	mengisytiharkan		mengumumkan	memaklumkan
	memasyhurkan			
661.	pengisytiharan	pengumuman	pemakluman	
662.	pengeluaran	penghasilan		
663.	berpura-pura	berlagak		
664.	menghulurkan	melepaskan	memberikan	menganjurkan
665.	keuntungan	kebaikan	manfaat	
666.	pergerakan	kebangkitan	perpindahan	perjuangan
667.	melarang	menahan	menegah	
668.	larangan	tegahan		
669.	utama	penting	mustahak	
670.	janji	iltizam	ikrar	sumpah
671.	harta	kekayaan	pusaka	kemewahan
	kebendaan			
672.	nabi	utusan Allah	pesuruh Allah	rasul
673.	muhammad	lelaki	rasul	
674.	meminang	melamar		
675.	pengharaman	pelarangan	penegahan	
676.	melindungi	membela	menjaga	
	memayungi			
677.	dilindungi	dijagai		
678.	perlindungan	penjagaan		
679.	pembantah	melawan		
680.	bantahan	sanggahan	sangkalan	
681.	pencari nafkah	mendapatkan rezeki	bapa	
682.	sementara	seketika	sekejap	tidak kekal
683.	haluan	arah	halatuju	hadap
684.	masuk campur	ikut serta	campur tangan	
685.	berpura-pura	berlakon		
686.	rakyat	warganegara	penduduk	bumiputera
687.	tarikan	ajakan		

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688.	menghukum	mengazab	mengkritik	menganiaya
689.	boleh dihukum		dikenakan	tindakan
690.	penghukuman	keputusan		
691.	pembelian	berlanggan		
692.	pembeli		pelanggan	
693.	purdah	tirai	kain	
694.	tulen	asli	jati	murni
695.	memburu		menggesakan	
696.	membekalkan	menyediakan		
697.	pembekal	penjual	penyedia	
698.	tolakan	dorongan	sorongan	
699.	meletakkan	menempatkan	memasukkan	melepaskan
	memberi			
700.	membusuk	mereput		merosak
701.	gempa bumi	tanah goyang		
702.	kelayakan	kebolehan	kecekapan	kesanggupan
703.	lulus	berhasil		
704.	soalan	kuiz		
705.	boleh disoal	ditanya		
706.	penyoal		penaya	
707.	barisan	deretan	garisan	
708.	rungutan	alasan		
709.	cepat	lekas	segera	pantas
				deras
710.	pertanyaan	soal selidik		
711.	mematahkan	menggagalkan		
712.	memadamkan	menghilangkan		
713.	mencari		meneroka	
714.	cepat	lekas	segera	
715.	senyap	diam		
716.	berhenti	berehat		
717.	pembelot	pengkhianat		
718.	mudah putus asa		mengalah	
719.	getaran	gegaran		pegerakan
720.	kaum	etnik		
721.	menyksakan	menyakitkan		
722.	penderaan	penyiksaan		
723.	hujan lebat	tengkujuh		
724.	hujan ribut	taufan		
725.	Ramadan		bulan puasa	
726.	peladang ternak		penternak	
727.	kerakusan	kemusnahan		

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728.	cepat	lekas	pantas
729.	perogol	perkosa	
730.	kebinasaan	kemusnahan	
731.	mempesonakan	menawan	
732.	mentah	belum masak	belum diproses
733.	sinar mentari	cahaya	
734.	mencapai	mendapat	
735.	pembacaan	menelaah	
736.	pembaca	penelaah	
737.	kenyataan	kepastian	
738.	memungut hasil tanaman	mengambil upah	
739.	pemikiran pertimbangan	berserah	
740.	pengenalan	pendahuluan	
741.	mengingat kembali	kenal semula	
742.	daya ingatan tajam	keupayaan mengingat yang kuat	
743.	mencadangkan	mengusulkan	menyarankan menganjurkan
744.	berdamai	berbaik semula	
745.	membetulkan	memperbaiki	
746.	pulih	sihat	
747.	dayus	takut	
748.	pembetulan	pembaikan	
749.	pemulihan	pembaikan	
750.	berulang	sekali lagi	melakukan kembali
751.	berulang-ulang	bertubi-tubi	berkala
752.	ingkar	menafikan	menyangkal
753.	menebus	mengadai	menukar
754.	penyelamat	pemupus	
755.	penebusan	pengantian	penukaran
756.	terhuyung-hayang	seroyongan	sempoyongan
757.	menyelidik	mengkaji	
758.	membentuk semula	memulihkan kembali	
759.	menyegarkan	menyamankan	
760.	menyejukkan	mengompres	mengipasi menjaram
	mengadem		
761.	perlindungan	langkah keselamatan	
762.	pelarian	pengungsi	
763.	bayaran balik	memulangkan semula	
764.	membersihkan	menceriakan	
765.	penolakkan	pembuangan	
766.	penyangkalan	penafian	pembantahan pengingkar
767.	menyangkal	menidakkan	

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768.	sedar semula	insaf	
769.	menjamu selera	makan	
770.	mengambil berat	ambil tahu	
771.	tumbuh semula	hidup	
772.	kebangkitan semula	kehidupan kembali	
773.	rosot kembali	menurun semula	
774.	rasa sesal	menyesal	
775.	berkumpul semula	berjumpa kembali	bersua
776.	biasa	lazim	
777.	ketetapan	ketentuan	
778.	melazimkan	membiasakan	
779.	mengawal	menjaga	
780.	pengawalan	penjagaan	
781.	pengatur	penyusun	
782.	pemulihan	pembaikan	
783.	membicarakan	mengatakan	
784.	pemerintahan	pentadbiran	
785.	memperkukuh	memperkasa	
786.	menjelma rosak	memberi kemusnahan	
787.	penjelmaan semula	kemunculan	
788.	memperteguh	memperkuatkan	
789.	mengembalikan jawatan	menjawat semula	
790.	pengulangan	mengulangi	
791.	mengulang	mengkaji semula	
792.	penolakan	penangkisan	penentangan pencegahan
	penafian		
793.	melengkap semula	mencukupi kembali	
794.	berasa girang	gembira	
795.	menyertai semula	mengikuti kembali	
796.	jawapan	objektif	jawaban
797.	bernyala semula	bersinar kembali	
798.	berkaitan	bersangkutan	berhubungan berkenaan
799.	bertenang	bersabar	
800.	pembebasan	pengampunan	demiliterisasi
801.	berlembut	berhalus	
802.	tidak henti-henti	berkobar-kobar	becok regek
803.	berkaitan	berkenaan	
804.	kelegaian	kesegaran	
805.	lega	segar	
806.	agama	ajaran	
807.	meninggalkan	pergi	

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808.	nikmat	enak	anugerah Allah
809.	mrngenang	mengingati	
810.	menempatkan semula	menduduk kembali	
811.	penempatan semula	menempatkan kembali	
812.	keengganan	kedegilan	
813.	berharap	keinginan	
814.	tinggal	duduk	
815.	sisa-sisa	tidak guna	tidak bermanfaat
816.	tahanan	halangan	rintangan
817.	kata-kata teguran	nasihat	peringatan
818.	luar biasa	ajaib	abnormal
819.	perkahwinan semula	pernikahan sekali lagi	
820.	berkahwin semula	berkahwin sekali lagi	
821.	boleh dipulihkan	dapat diubahi	
822.	ubat	supositori	kumur
823.	ingat	sedar	hajat
824.	peringatan	nasihat	teguran
825.	mengingatkan	peringatan	menegurkan peringatan
826.	peringatan	nasihat	teguran
827.	teringat	terkenangkan	teringatkan terfikir
828.	pengampunan	pembebasan	
829.	membentuk semula	bangkit sekali lagi	
830.	pembantahan	penyangkalan	
831.	pembantah	pelawan	
832.	membantah	menentang	melawan
833.	sesal	kesal	keinsafan
834.	penuh sesal	cukup kesal	
835.	tanpa belas kasihan	tiada timbang rasa	
836.	terpencil	terasing	kesendirian
837.	boleh ditanggalkan	dapat dihilangkan	
838.	pemindahan	penghijrahan	
839.	ganjaran	bonus gaji	pahala
840.	mengganti	menukar	
841.	melepaskan	membebaskan	
842.	terkenal	diketahui ramai	
843.	membuka semula	memdedahkan	melepaskan
844.	menduduki semula	menyertai	memasuki mengambil
	bahagian		
845.	membaiki	membetulkan	
846.	pengulangan	mengulangi	
847.	mengubah	menukar kepada yang lain	membaiki

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848.	pengubahsuaian	modifikasi		
849.	pengubah	pengalih		
850.	kegemilangan	kejayaan		
851.	sewa	wang yang dibayar untuk menggunakan		
	sesuatu,tambang			
852.	pelepasan	dikecualikan	melepaskan	sesuatu
853.	pendudukan semula	menduduki	semula	
854.	menduduki semula	mendiami	semula	
855.	penyusunan semula	menyusun		
856.	menggantikan	memberhentikan		
857.	mengeluh	merintih		
858.	boleh diganti	boleh ditukar		
859.	akibat	hasil	kesudahan	
860.	menambahkan	memberi tambah		
861.	penuh			
862.	jawapan	balasan		
863.	laporan	pemberitahuan		
864.	rehat			
865.	damai	aman	rukun	harmoni
866.	merupakan	membentuk	membuat	menjadikan
867.	menahan	menghentikan	menyekat	
868.	menahan nafsu	menyekat	kehendak	
869.	penangguhan hukuman	penundaan	balasan	
870.	teguran	kritikan	cerca	
871.	menegur	mencela	mengkritik	
872.	teguran	celaan	ajaran	cerca
	kritikan			
873.	terkutuk	terlaknat		
874.	kutukan	sumpahan	makian	cerca
	nista			
875.	membiak	bertambah-tambah	menular	
876.	pembiakan	aseksual	klon	pisikultur
	isogami			
877.	pembiakan	aseksual	klon	pisikultur
	isogami			
878.	penolakan	penampikan	penangkalan	penangkisan
	pencegahan	pengurangan		
879.	menangkis	menepiskan	mengelakkan	
880.	menjjikkan	menggelikan	meluatkan	
881.	permintaan	permohonan		
882.	memerlukan	memustahakkan	memestikan	mewajibkan

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883.	keperluan	keharusan	kemestian	
884.	balasan	jawaban	ganjaran	hukuman
885.	penyelamat	pemupus	almukhalis	
886.	menyelidik	mengkaji	memeriksa	menyiasat
887.	keserupaan	kesamaan	rupa	
888.	serupa	sejenis	semacam	
889.	rasa geram	gerigit		
890.	geram	marah	panas hati	sakit hati
891.	simpanan	tabungan		
892.	askar simpanan		tentera sokongan	
893.	membetulkan semula	memperbaiki	kembali	
894.	menetap		bermastautin	bermukim
895.	membentuk semula	menyusun	kembali	
896.	tinggal	bermukim	menetap	
897.	menentang	melawan		
898.	tentangan	perlawanan		
899.	ketegasan	kepastian		
900.	azam	matlamat		
901.	gema	gaung	kumandang	
902.	bergema	bergaung	berkumandang	bertalun- talun
903.	sumber	asal	mula	punca
904.	bijak	bijak	pintar	
905.	hormat	khidmat		takzim
906.	dihormati	disanjungi		
907.	penuh hormat	beradab		
908.	pernafasan	perbuatan	bernafas	
909.	bernafas	bernyawa	hidup	
910.	menjawab	membalas	menyahut	
911.	jawapan		balasan	penyelesaian
912.	bertanggungjawab	amanah		
913.	rehat	istirahat		
914.	mengembalikan		memulangkan	
915.	sekatan	halangan	rintangan	
916.	mengehadkan	membataskan		
917.	terhad	terbatas	khusus	
918.	sekatan	halangan	rintangan	
919.	hasil	keuntungan	pendapatan	
920.	timbul sebagai akibat	kesan		
921.	menyambung	memanjangkan	meneruskan	
	menghubungkan			

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922.	kebangkitan	kebangunan	kesedaran	pemberontakan
923.	membangkitkan	membangunkan		menaikkan
	mengangkat ke atas			
924.	menghidupkan semula	menggerakkan	kembali	
925.	mengekalkan	mengabadikan		
926.	orang gaji	bibik		
927.	membalas	membayar		
928.	tindakan balas	kesan		
929.	melambatkan	melengahkan		
930.	ingatan kuat	fikiran cerdas		
931.	berfikir semula	bermenung	kembali	
932.	berat mulut	pendiam		
933.	segan	malu		
934.	rombongan	kumpulan		
935.	berhemat	berjimat	berhati-hati	
936.	perbicaraan semula	pengadilan	kembali	
937.	mendapatkan semula	memperoleh	kembali	
938.	hasil buruan	dapatan dari buru		
939.	mengembalikan	memulangkan		
940.	menampakkan	menunjukkan	memperlihatkan	
941.	membalas dendam	bertindak diluar	jangkaan	
942.	bertentangan	berlawanan	bermusuhan	
943.	pulih	baik		
944.	beredar	pulang		
945.	kaya	berharta	berada	berkuasa
946.	menunggang kuda	menaiki	kuda	
947.	hak	kuasa	milik	kepunyaan
948.	koyak	rombeng	sobek	
949.	masak	ranum	empuk	matang mahir
950.	sungai	air		
951.	jalan	haluan		
952.	batu	kerikil		
953.	akar	umbi		
954.	kasar	kesat	angkara	berat
955.	baris	deret	jajar	lajur leret
956.	menggosok	membersih	mengilap	menyeterika
957.	biadap	tidak tahu	adat	
958.	asas			
959.	menyesali			
960.	peraturan	dasar	tapak	
961.	lari	berkejar		

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962.	tergesa-gesa	gopoh-gopoh
963.	kesucian	kemurnian
964.	berkorban	memberi sesuatu sbg korban
965.	sedih	susah hati sedu
966.	selamat	aman sentosa
967.	upah	ganjaran
968.	assalamualaikum	damai padamu
969.	penjualan	menjual
970.	sama	serupa mirip
971.	suci	bersih soleh murni
972.	pasir	kersik halus
973.	iblis	iblis
974.	sarung pedang	selongsong pedang
975.	menakutkan	menggerunkan
976.	bau wangi	harum
977.	cemuhan	celaan ejekan
978.	jeritan	pekikan teriakan
979.	kitab	buku suci
980.	rasa bersalah	rasa silap
981.	laut	segara
982.	mencari	berusaha menjumpai sesuatu
983.	berahsia	menyembunyikan
984.	duniawi	keduniaan
985.	tenang	aman
986.	penggoda	pengacau
987.	tekun	bersungguh-sungguh
988.	terpilih	dapat dipilih
989.	mementingkan diri	mengambil berat
990.	jual	menjual berjual
991.	deria	alat perasa
992.	peka	cermat hati-hati
993.	syahwat	keinginan kuat hawa nafsu
994.	palsu	tiruan
995.	celaka	sial malang
996.	contoh	sampel, model
997.	ditutup	tidak terbuka
998.	malu	segan
999.	sakit	menderita kesusahan
1000.	penglihatan	kebolehan melihat
1001.	tanda	lambang isyarat alamat
1002.	perak	logam putih

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1003.	perumpaan	bidalan	ibarat		
1004.	memudahkan	menggampangkan			
1005.	dosa	mungkar	kejahatan		
1006.	jujur	ikhlas	lurus hati		
1007.	bernyanyi	berlagu			
1008.	duduk	tempatnyanya	tinggal		
1009.	kulit	tisu nipis	membaluti	tubuh	
1010.	langit	angkasa			
1011.	selekeh	kotoran, noda			
1012.	hamba	khadam	kuli		
1013.	tidur	lelap			
1014.	hiris	kerat	penggal		
1015.	terbelah	berpecah			
1016.	kecil	tidak besar	muda	halus	
	sedikit				
1017.	berkecai	berpecah			
1018.	pelanggaran	penyerangan	penyerbuan		
1019.	hidu	mencium	membraui		
	mengetahui	mengesan			
1020.	asap	gas			
1021.	ular	binatang	akar		
1022.	kilat	cahaya			
1023.	selesa	lega	luas		
1024.	esakan	sedu-sedan			
1025.	lembut	lemah	lemas	lembik	lunak
1026.	penyelesaian	membereskan			
1027.	sulaiman	lelaki	nabi	rasul	
1028.	anak lelaki	orang			
1029.	roh	jiwa	semangat		
1030.	bunyi	suara			
1031.	punca	permulaan	pendahuluan	hujung	
1032.	tempat	bekas	wadah	ruang	
1033.	bercakap	bertutur	berkata	berbahasa	
1034.	pertuturan	sebutan	ucapan		
1035.	mengejai	merentangkan	meregangkan		
1036.	berbelanja	membeli-belah			
1037.	pusingan	edaran	kisaran	kitaran	
1038.	pergaduhan	perkelahian	persengketaan	pertelingkahan	
1039.	kebuluran	kelaparan			
1040.	negara	negeri			
1041.	menghentikan	memberhentikan			

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1042.	mencuri	mengambil secara paksa		
1043.	kedekut pelit	bakhil	lokek	kikir
1044.	batu	mineral		
1045.	penyimpanan	perihal menyimpan		
1046.	simpanan	sesuatu yang disimpan		
1047.	berhenti	berehat		
1048.	ribut	angin kencang badai		
1049.	cerita	kisah	riwayat	
1050.	pantai	pesisir	tebing laut	tepi laut
1051.	orang yang dikenali	artis		
1052.	tenaga	daya	kekuatan	kebolehan
1053.	tekanan		desakan	paksaan
1054.	persengketaan	perbantahan	pertengkaran	
1055.	taklukan	jajahan		
1056.	berjaya kemajuan	berhasil	menang	mencapai
1057.	pengganti	menggantikan		
1058.	tunduk	merendah	mengaku kalah	
1059.	menghisap	menyedut		
1060.	menetek		menyusu	
1061.	menderita	kesakitan	keseksaan	
1062.	waktu panas	tengah hari		
1063.	arahan pengawalan	perintah	petunjuk	pimpinan
1064.	matahari	matari	mentari	suria
1065.	bekalan		persediaan	
1066.	alam	buana	bumi	dunia jagat
1067.	meninjau	memerhatikan		
1068.	dicurigai	disyaki		
1069.	menyumpah bersumpah	mengutuki	menyeranah	menyerapah
1070.	kelengkapan	alat perkakas		
1071.	kebijaksanaan	kepandaian		
1072.	mengambil mengurang	membawa	memungut	menerima
1073.	berkata-kata	bercakap		
1074.	tinggi	panjang	jauh	
1075.	jinak	ramah	tidak liar	
1076.	menyeleweng	menyimpang		
1077.	ketara	nyata	terang	

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1078.	ketukan		pukulan	
1079.	lambat	perlahan	lewat	
1080.	sasaran	target	tujuan	
1081.	tugas	arahan	perintah	
1082.	rasa	pendapat	fikiran	
1083.	koyak rabak	cabik-cabik		
1084.	perbualan kosong	mengumpat		
1085.	kaki mengumpat		suka mengata	
1086.	lusuh	luntur	kumal	renyuk
1087.	cemuhan		celaan	ejekan
1088.	menegang	merentang	menjadi	tegang
1089.	mengajar	latih		
1090.	kumpulan	pasukan		
1091.	koyak	terbuka		
1092.	tidak boleh diharap	tidak dapat tolong		
1093.	mengusik	mengacau	menyakat	
1094.	penuh sesak	cukup sibuk		
1095.	remaja	muda		
1096.	memberitahukan		memberitakan	melaporkan
1097.	ribut kencang	badai		
1098.	penggoda	pengacau	pengusik	
1099.	dapat dipertahankan	boleh dijaga		
1100.	ketabahan	keberanian	kecekalan hati	keteguhan hati
1101.	mudah menjaga		senang dibela	
1102.	cemas	takut		
1103.	kemah	khemah		
1104.	syarat-syarat	undang-undang		
1105.	menggerunkan	menakutkan		
1106.	ujian	peperiksaan		
1107.	bukti	fakta		
1108.	meninggalkan wasiat	pewasiat		
1109.	terima kasih	syukur	mensyukuri	
1110.	bersyukur	keredhaan		
1111.	mencuri		merampas	
1112.	benda	barang		
1113.	berfikir	berakal	beringat	
1114.	berduri	beranjau		
1115.	hamba patik	kuli	khadam	pacal
1116.	mengancam	membahayakan		

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1117.	balingan	lontaran	lemparan	
1118.	singgahsana	istana		
1119.	ketat	sendat	tegas	teliti
1120.	bercucuk tanam		menanam	
1121.	masa	waktu		
1122.	penat	letih		
1123.	bersama-sama	bersatu		
1124.	nada suara	bunyi suara		
1125.	lidah	perasa		
1126.	alat	benda		
1127.	tumbang rebah	jatuh		
1128.	seksaan	azab		derita
1129.	goyah	goyang		
1130.	sentuhan	cuitan	rabaan	
1131.	kuat	perkasa		gagah
1132.	mengembara	menjelajah		
1133.	bandar	ibu kota		
1134.	tanda	lambang	logo	
1135.	berdagang	berniaga		
1136.	memfitnah	mengumpat		
1137.	mengubah	mengalih		
1138.	pengangkutan	transpor	pembawaan	
1139.	diterjemahkan	versi	bahasa sumber	
1140.	perangkap	jerat	jebat	simbat
1141.	perjalanan	pengaliran	berkonvoi	menggembara
1142.	khianat	derhaka	curang	tipudaya
1143.	khianat	derhaka	curang	tipu daya
1144.	harta tersorok	harta karun		
1145.	melayan		mempedulikan	mengendahkan
1146.	muslihat	tipu	jerat	
1147.	perjalanan	pengaliran	berkonvoi	menggembara
1148.	benar	betul		
1149.	kepercayaan	keyakinan	kepastian	
1150.	mencuba		memeriksa	menjajal
1151.	pusingan	putaran		
1152.	jenis	golongan		
1153.	hodoh	buruk		
1154.	bersatu	berpadu		
1155.	biasa	lazim	pernah	
1156.	kosong	lompong		
1157.	samar-samar	kabur		

..to be continued..

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1158.	berani	gagah	perkasa	bahaduri
1159.	mengesahkan mentashihkan	mengisbatkan	memperakui	mengabsahkan
1160.	bertentangan	bercanggahan		
1161.	kelainan	perbezaan		
1162.	pelbagai	bermacam		
1163.	luas terbentang	panorama		
1164.	sayuran	jenis-jenis sayur		
1165.	menjual	berniaga		
1166.	bisa	racun		
1167.	kata-kata	ucapan		
1168.	mangsa	penderita	pesakit	
1169.	kemenangan	kejayaan		
1170.	pandangan	pendapat		
1171.	mencerca	menghina		
1172.	boleh dilihat	dapat nampak		
1173.	ternyata	terbukti	ketara	ketahuan
1174.	matlamat	objektif	wawasan	
1175.	melawat	menziarahi		
1176.	suara	nada		
1177.	raungan	jeritan dalam tangisan		
1178.	tunggu	menanti		
1179.	terjaga	terbangun	tersedar	
1180.	berjalan	bergerak		
1181.	dinding	tembok	kubu	pagar
1182.	tongkat sakti	kayu ajaib		
1183.	perang	permusuhan	asabat	
1184.	panas	hangat		
1185.	waspada	waskita		bersiap-siap
	berjaga-jaga			
1186.	membasuh	membilas	mencebok	
1187.	memperhatikan menatap	meninjau	membelek	menilik
1188.	air	minuman	air sungai	
1189.	lilin	bahan api		
1190.	gelombang	ombak	getaran	gerakan
1191.	jalan	landasan	denai	usaha
1192.	kelana	pengembara		
1193.	lemah	lesu	lembam	
1194.	kaya	berharta	kaya dengan	
1195.	cuaca	hawa	iklim	keadaan udara

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1196.	pelik	aneh	ganjil	ajaib
1197.	sihat	afiat	pulih	
1198.	sesiapa	siapa-siapa		
1199.	lebar	besar		
1200.	liar	ganas	buas	
1201.	angin	hawa	udara	
1202.	tingkap	jendela		
1203.	sayap	kepak		
1204.	hajat	permintaan	jaminan	keselamatan
1205.	perempuan	kaum hawa	wanita	
1206.	ajaib	hairan	takjub	pelik aneh
1207.	rahim	rahmat		
1208.	kayu	kayu-kayan		
1209.	kerja	khidmat	karya	
1210.	dunia	alam	bidang	
1211.	bimbang	terlalu memikirkan	risau	
1212.	menyembah	menundukkan		
1213.	murka	marah	meradang	tak selesa
1214.	dajal	permohonan maaf		jahat
1215.	tulis	menulis		
1216.	salah	tidak betul		
1217.	bersungut	mengomel	menggerutu	merungut
1218.	tahun	masa	waktu	
1219.	jeritan	teriakan		
1220.	kekuningan	kuning	bulan Safar	warna
1221.	semalam	kelmarin		
1222.	hasil	kesan		
1223.	berzaman	jangka masa yang lama		
1224.	kamu	engkau	awak	
1225.	lolongan	jerit	raung	
1226.	semangat	roh	kemahuan	
1227.	fanatik	taasub		
1228.	tunjuk	memperlihatkan		
1229.	kelahiran	terhasil		
1230.	raja	sultan		
1231.	beriman	Mukmin		
1232.	mata	pancaindera	mata-mata	
1233.	tanda	lambang		
1234.	hari	isnin	selasa rabu khamis jumaat sabtu ahad	
1235.	kiamat	akhirat		
1236.	membuktikan	mengesahkan		

..to be continued..

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1237.	kewujudan alam	tecipta buana		
1238.	tanda-tanda	gejala	alamat	
1239.	raja-raja	sultan-sultan		
1240.	wajibnya	tanggungjawabnya		
1241.	wanita	perempuan	kaum hawa	kaum ibu
1242.	menutup	mengatupkan		
1243.	aurat	kemaluan	alat kelamin	rambut
1244.	kepentingan	keutamaan		
1245.	kebiasaan	ilmu	pengetahuan	
1246.	tanggungjawab	kewajipan		
1247.	tanggung	menyara		
1248.	jawab	memberi jawapan		
1249.	anak	janin	zuriat	
1250.	ibu	bonda		
1251.	bapa	ayahanda		
1252.	abang	kekanda	kanda	
1253.	adik-beradik	sekedim		
1254.	kakak	kakanda		
1255.	adik-adiknya	adindanya	saudaranya	
1256.	adik	adinda saudara	ading yayi	ari
1257.	ciri-ciri	sifat-sifat		
1258.	ciri	sifat tabii		
1259.	berpakaian	berbusana		
1260.	islam	aqama		
1261.	kelebihan	keistimewaan		
1262.	berpuasa	menahan diri		
1263.	sembahyang	solat		
1264.	kesihatan	afiat		
1265.	kewajipan	tanggungjawab		
1266.	cerita	kisah		
1267.	hudud	peraturan yang ditetapkan oleh Allah s.w.t	batasan	
1268.	mewajibkan	kemestian	memastikan	mengharuskan
1269.	jumaat	hari		
1270.	hukum	ketetapan	peraturan	
1271.	mencuri	mengambil		
1272.	perempuan-perempuan	kaum wanita		
1273.	perempuan	wanita		
1274.	haram	hukum	tegahan	ditegah
1275.	dikahwini	dinikahi		
1276.	kebesaran	kemuliaan	kehormatan	
1277.		Tuhan	Yg Esa	

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1278.	kejadian	peristiwa		
1279.	gunung-ganang	bukit-bukau		
1280.	laut	selat	bahar	samudera
1281.	quran	kitab	at-tanzil	
1282.	mukjizat	kelebihan		
1283.	kalimah	lafaz		
1284.	syahadah syahadat	tasyahud	pengucapan	alamin
1285.	sembahyang	solat	selawat	
1286.	puasa	perbuatan menahan diri		ibadat
1287.	zakat	bayaran		
1288.	haji	qiran	ibadat	
1289.	solat	sembahyang		
1290.	sunat	tak diwajibkan		
1291.	perbezaan	ketaksamaan	kelainan	
1292.	islam	aqama		
1293.	kristian	nasrani	Masihi	
1294.	yahudi	ibrani	farisi	
1295.	perkaitan	asosiasi	hubung kait	simbiosis
1296.	persamaan	pertepatan	perserupaan	
1297.	keturunan	zuriat	darah piut	cucu
1298.	rasul	lelaki	utusan Allah	
1299.	sejarah	sastera lama		
1300.	peperangan	pertempuran	perjuangan	
1301.	perkahwinan	pernikahan		kebersamaan
1302.	kisah	cerita		
1303.	lelaki	manusia		
1304.	tertidur	terlelap	terjaga	berbaring
1305.	gua	batu		
1306.	beratus-ratus	gulai		
1307.	ratus	ribu		
1308.	tahun	masa		
1309.	keadaan		suasana kedudukan	
1310.	jannah	surga		
1311.	neraka	hawiah		
1312.	menyucikan	membersihkan		
1313.	diri empunya badan	tubuh badan		orang seorang
1314.	tuntutan	tanggungjawab		
1315.	bertempur	bermusuh	konflik peperangan	
1316.	jalan	haluan		

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1317.	allah	Tuhan	Yg Esa
1318.	berdakwah	mengingatkan	menyampaikan
1319.	kewajipan	tanggungjawab	
1320.	malapetaka	bencana	
1321.	bumi	alam	
1322.	petunjuk	panduan	bimbingan
1323.	kandungan	janin	anak
1324.	jumaat	hari	

English

1. eat consume corrode deplete exhaust feed rust
2. abandoned derelict deserted desolated emptied forsook
vacated
3. abandonment defection desertion forsaking
4. abase chagrin huble humiliate mortify
5. abash embarrass
6. abatement hiatus reprieve respite suspension
7. abattoir butchery shambles slaughterhouse
8. abbreviation descriptor form shortening signifier
9. abdicate renounce
10. abdication abjuration cession demission dropping out
emeritus status forced resignation forswearing handing over
relinquishment renouncement renunciation retiral retirement
11. aberrant deviant deviate
12. abet assist
13. abraham abram
14. air aerate airwave atmosphere aura aviation bare beam
breeze broadcast line melody publicise publicize send
strain transmit tune vent ventilate zephyr
15. angle fish lean slant tilt tip weight
16. caged barred beleaguered beset bound captive cloistered confined
cramped enclosed hemmed in immured imprisoned
incarcerated jailed
17. cajole blarney coax inveigle palaver wheedle
18. calamitous black disastrous fatal fateful
19. calamity cataclysm
20. calculate account aim bet cipher compute count
cypher depend direct estimate figure forecast look
reckon
21. caliphate berth billet epoch era jurisdiction office place
position post situation spot
22. cancel delete invalidate natural offset scratch scrub
23. capability capableness capacity potentiality
24. capable able open subject
25. captivate becharm beguile bewitch capture catch charm
enamore namour enchant entrance fascinate
trance
26. caring dealing handling liking lovingness managing wishing
worrying
27. caress fondle
28. carnality lasciviousness lubricity prurience pruriency
29. cassava casava manioc manioca
30. castaway discard dispose fling Ishmael outcast pariah toss
31. causeway furnish pave provide
32. caution admonish care carefulness cautiousness caveat
circumspection forethought monish precaution
33. celebrate fete keep lionise lionize observe
34. certain sealed sure

..to be continued..

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35. certainty authoritativeness belief certitude cinch confidence
conviction credence definiteness dogmatism faith
firmness indubitableness inevitability lock lockup
positiveness positivism setup shoo-in staunchness
steadiness stock store surefire sureness surety trust
validity wrap-up
36. christian Christlike accepted accepter adoring
affectionate approved authentic authoritative becoming
befitting believer believing benign benignant
37. abhor abominate execrate loathe
38. abhorrence abomination detestation execration loathing
odium
39. abidance compliance conformation conformity
40. abide bear bide brook digest endure
41. ability power
42. abject low miserable scummy scurvy unhopeful
43. abjection abasement degradation
44. abjuration recantation retraction
45. abnormal unnatural
46. abolish abate abrogate annihilate annul cancel countermand delete
demolish destroy disallow eliminate
47. abraham ibrahim
48. abrogate abate abolish annihilate annul cancel countermand
discharge dissolve do away with extinguish
invalidate
49. abrogation annulment repeal
50. abuse blackguared clapperclaw contumely insult maltreat
maltreatment mistreat misuse pervert revilement shout step
vilification
51. accept admit assume bear consent have swallow take
52. accomplish action attain execute fulfil reach
53. accomplishment achievement acquirement acquisition attainment
skill
54. according agreeing allotting concurring consorting
granting harmonising harmonizing
55. accumulate amass collect compile conglomerate cumulate
gather hoard
56. accurate exact precise
57. accuse charge criminate impeach incriminate
58. accustom habituate
59. achieve accomplish attain reach
60. acid acerb acerbic acidic acidulent acidulous acrid bitter
blistering caustic dose dot elvis pane sulfurous
sulphereous sulpherous superman virulent vitriolic
zen
61. acme apex elevation height meridian peak pinnacle
summit superlative tiptop top vertex
62. acquire adopt assume develop evolve gain get grow larn learn
produce take win

..to be continued..

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63. adam cristal ecstasy go x xtc
64. adequate decent enough equal nufl passable tolerable
65. adhere bind bond cleave cling cohere stick
66. adjoin abut border butt contact edge march meet touch
67. adjourn recess retire withdraw
68. adjudge declare hold
69. adjudicated decided judged resolved settled tried
70. adjuration entreaty prayer
71. administer abide by accord adhere to administrate afford
allocate allot allow apply apportion assign award
bestow
72. admirable estimable pleasing
73. admirer adorer booster champion friend protagonist supporter
74. admit accept accomodate acknowledge allow hold include intromit
take
75. admonish caution discourage monish reprove warn
76. adolescence immatureness immaturity
77. adopt assume borrow dramatise dramatize embrace espouse
follow take
78. adorn beautify clothe deck decorate embellish grace invest
ornament
79. adult big grown grownup pornographic
80. adulterer
81. advantage reward vantage
82. adventurer explorer venturer
83. advise admonition incitation monition recommendation
warning
84. advocate advocator counsel counsellor counselor
exponent pleader preach proponent recommend urge
85. affectation affectedness mannerism pose
86. affectionate fond lovesome tender warm
87. affray altercation disturbance fracas fray ruffle
88. aflame ablaze afire aflare alight aroused burning
89. age eld fledged geezerhood grow maturate mature matured
ripe ripen senescence suppurate years yonks
90. agglutinate agglutinative
91. agile nimble quick spry
92. agree accord check concord concur consort correspond fit gibe
harmonise harmonize hold jibe match tally
93. aid assist assistance attention care help tending
94. ail garlic pain trouble
95. air aerate airwave atmosphere aura aviation bare beam
breeze broadcast line melody publicise publicize send
strain transmit tune vent ventilate zephyr
96. all altogether completely entirely totally whole wholly
97. alliance alignment alinement bond coalition
confederation
98. allow admit appropriate countenance earmark grant leave let
permit provide reserve tolerate

..to be continued..

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99. almost about most near nearly nigh virtually
100. alms contribution distribution donation gift giving
sharing
101. alongshore
102. aloof distant upstage
103. alphabet abc abcs rudiment
104. already as yet before earlier early ere ere then
erstwhile even formerly heretofore hereunto
hitherto
105. alter castrate change falsify interpolate modify neuter spay
vary
106. alternate alternating alternative flip interchange jump
replacement substitute surrogate switch tack understudy
107. alternative alternate choice option substitute
108. amass accumulate collect compile conglomerate cumulate
gather hoard
109. ambience ambiance atmosphere
110. amplify exaggerate expand hyperbolise hyperbolize
inflate magnify overdraw overstate
111. animate animise animize enliven exalt inspire
invigorate liven quicken reanimate recreate
renovate repair revive revivify sentient vivify
112. anxiety anxiousness
113. anxious nervous queasy uneasy unquiet
114. appoint charge constitute name nominate
115. appreciate apprise apprise prize prize revalue treasure value
116. approve ok okay sanction
117. arab arabian
118. arabian arab
119. arrange coif coiffe coiffure do dress format order put
set stage
120. arrest apprehend apprehension catch check collar contain cop
get halt hitch hold nab nail nick pinch stay stop
stoppage
121. arrogant chesty
122. associate affiliate assort colligate companion
comrade connect consociate consort familiar
fellow link relate yoke fellow
123. assort affiliate associate class classify consort
separate sort
124. award accolade awarding fete grant honor honour
laurels present prize prize
125. away aside by forth off out outside
126. awesome amazing awful awing
127. awhile briefly momentarily temporarily transiently
128. baby babe beloved bub child cocker coddle dear
dearest featherbed honey indulge infant love molly coddle
pampersister spoil

..to be continued..

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129. backbite bitch
130. befoul defile foul maculate
131. beg implore pray solicit tap
132. begin commence get start
133. believe conceive consider think trust
134. being beingness comprising constituting costing embodying
equalling existence existing following living
organism personifying representing
135. belong go
136. betray bewray cheat cuckold deceive denounce fail
grass rat sell shop snitch stag wander
137. big adult bad bighearted boastful boastfully
bounteous bountiful braggart braggish crowing
evident expectant freehanded giving gravid great
grown grownup handsome heavy large liberal
magnanimous openhanded prominent swelled vainglorious
vauntingly
138. blank clean dummy lacuna space vacuous white
139. bluff bold sheer
140. brain brainbox brainiac brainpower einstein
encephalon genius head mastermind mentality mind nous
psyche wit
141. bread boodle brass breadstuff cabbage clams dinero dosh
dough gelt kale lettuce lolly loot lucre moola moolahpell
scratch shekel simoleons sugar wampum
142. breath breather hint intimation
143. business byplay clientele concern job line
occupation patronage
144. byzantine convoluted involved knotty tangled tortuous
145. cage confine enclose envelop hem immure impound
imprison incarcerate jail lock up mew pen restrain
146. cairo
147. cajole blarney coax inveigle palaver wheedle
148. calculate account aim bet cipher compute count
cypher depend direct estimate figure forecast look
reckon
149. call address anticipate bid birdcall birdsong claim
cry forebore foretell holler hollo name outcry phone
predict prognosticate promise ring scream shout song squall
telephone visit vociferation yell
150. calm be calm calmness collectedness composure equanimity
lull quiet quieten sedate serene steady still tranquil
tranquillise tranquilize unagitated unflappability
151. capable open subject
152. captivate becharm beguile bewitch capture catch
charm enamour enamour enchant entrance fascinate
trance

..to be continued..

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153. care aid attention caution charge concern deal fear
forethought guardianship handle like maintenance manage
precaution tending tutelage upkeep wish worry
154. carve allot amputate apportion assemble axe be a
printmaker bisect block out book butcher calendar canal
canalize carve up
155. case careful casing causa cause character eccentric
encase event example face font fount incase instance
lawsuit pillowcase sheath shell showcase slip subject suit
type typeface vitrine
156. catch apprehension arrest becharm beguile bewitch
captivate capture charm collar enamore namour enchant
entrance fascinate get gimmick grab haul hitch
match overhear overtake pinch see snap snatch stop
trance view watch
157. celebrate fete keep lionise lionize observe
158. centre center centerfield concentrate core essence eye
focus gist halfway heart inwardness kernel mall
marrow meat middle midpoint midway nub pith
plaza pore rivet snapper substance sum
159. ceremony ceremonial observance
160. charge accusation accuse agitate appoint bang bearing bill
billing blame bomb boot buck burden burster care cathexis
commission commit commove complaint consign
direction excite file flush guardianship institutionalise
institutionalize kick level load lodge miss in point rouse rush
saddle tear thrill tutelage
161. chat chaffer chatter chitchat claver confab confabulate
confabulation gab gas gossip jaw natter schmoose
schmooze visit
162. cheat beguiler betray cheater cheating chess chicane
chisel chouse cuckold darnel deceiver jockey rig screw
shaft slicker swindle tare trickster wander
163. check agree arrest ascertain assay assure balk baulk break
bridle checker checkout cheque chequer chink chip
chit condition confirmation contain control correspond crack
curb delay determine deterrent discipline ensure fit
gibe halt handicap hinderance hindrance hitch hold
impediment insure jibe learn mark match moderate retard
see stay stop stoppage substantiation sus suss tab
tally tick train verification watch
164. child baby fry kid minor nestling nipper shaver
tiddler tike tyke wean youngster
165. city metropolis
166. close airless cheese pairing close lipped closely close mouthed
closing conclude conclusion confining end ending
faithful finale finis finish fold last near nigh secretive
shut skinny snug stuffy tight tight lipped unaired

..to be continued..

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167. cloth clergy fabric material textile
168. cloud becloud befog corrupt dapple defile fog mist
mottle obnubilate obscure overcast sully swarm taint
169. clutch batch clasp slench clutches grasp grip hold
prehend seize
170. coach autobus bus carriage charabanc handlerjitney
manager motorbus motorcoach omnibus train tutor
171. cock hammer prance rooster ruffle sashay stopcock strut
swagger tittup turncock
172. coerce force hale pressure squeeze
173. collect accumulate amass cod compile garner gather hoard
174. complain kick kvetch plain quetch
175. complicate elaborate perplexrarify refine
176. complyfollow
177. comport acquit bear behave carry conduct deport
178. compose compile frame indite pen write
179. conceal hide
180. concede cede confessgrant profess yield
181. conceive believe conceptualise conceptualize consider
gestate think
182. concentrate center centralise centralize centre condense
contract decoct digest distil distill focus pore reduce rivet
183. concourse confluence multitude throng
184. concubine courtesan paramour
185. concupiscence eros
186. concur agree coincide concord hold
187. concurrence coincidence concurrency conjunction
188. condemn decry doom excoriate objurgate reprobate
sentence
189. confederation alliance confederacy federation
190. confession abject apology acceptance acknowledgement
adherents admission agape allowance apology
appreciation aspersion auricular confession avowal
breast-beating
191. confidant intimate
192. confidence authority self-assurance self-confident sureness
trust
193. confinebound circumscribe detain enclosehold limit restrain
restrict throttletrammel
194. comfirm affirm corroborate reassert substantiate
support sustain
195. confiscation arrogation
196. conflate blend coalesce combine commingle flux
fuse immix meld merge mix
197. conflict battle contravene difference 'difference of
opinionstruggle
198. conformation abidance compliance configuration conformity
contour form shape

..to be continued..

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199. confront face present
200. confuse befuddle blur confound discombobulate
disconcert flurry fox fuddle jumble mix up obnubilate
odsure 'put off' throw
201. conflate
202. congestion over-crowding
203. congregate assemble foregather forgather gather meet
204. connect associate colligate touch base unite
205. connive intrigue scheme
206. conquest
207. conscience scruples
208. consciousness
209. consider believe concieve count deal debate deliberate
mmot reckon regard see study take think view weigh
210. constellation configuration
211. constitutionalism
212. consultation audience interview reference
213. consummation
214. contact join liason link meet middleman reach striking
touch
215. contamination contaminant pollution taint
216. contention arguing argument competition contestation
controversy disceptation disputation rivalry tilt
217. contribute add bestow bring conduce give impart lead
lend
218. control ascendance ascendancy ascendance ascendancy
ascertain assure check command contain controller curb
dominance ensure hold insure manipulate master mastery
moderate operaterestrainsee verify
219. convene convoke
220. convict con inmate
221. copulate couple mate pair
222. copulation coition coitus congress intercourse relation
223. cordiality amity
224. cow moo-cow overawe
225. corruptibility
226. creation conception cosmos existence foundation
founding initiation innovation instauration institution
introduction macrocosm origination
227. creator almighty divine Godhead Jehovah Lord
Maker
228. creature animal beast brute fauna puppet tool wight
229. cry exclaim holler outcry scream shout squall voriferation
watchwood
230. crone beldambeldame hag witch
231. crop browse clip crawl cultivate dress graze harvest lop
pasture prune range snip
232. crowd bunch crew gang herd push

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233.	cruel	barbarous	brutal	fell	roughsho	savage	vicious
234.	cultivate	civilise	crop	domesticate	educate	naturalise	
	school	tame	train	work			
235.	cycle	bicycle	bike	hertz	motorbike	motorcycle	oscillation
	pedal	rhythm					
236.	damage	harm	hurt	impairment	price	scathe	terms
	wrong						
237.	damascus	Dimash					
238.	danger	peril	risk				
239.	darkness	dark	duskiness	iniquity	shadow		
	swarthinness	wickedness					
240.	daughter	girl					
241.	daughter-in-law		in-law	relative-in-law			
242.	decay	crumble	decline	decompose	decomposition	dilapidate	
	disintegrate	disintegration	radioactive	decay			
243.	decease	choke	conk	croak	death	die	exit
	expiry	go	pass	perish			expire
244.	deceive	betray	delude				
245.	decide	adjudicate	determine	resolve	settle		
246.	declass						
247.	decline	correct	decay	declension	declination	declivity	
	descent	diminution	downslope	fall	refuse	reject	slump
	worsen						wane
248.	defection	abandonment	qpostasy	desertion	renunciation		
249.	defend	champion	guard	hold	maintain	oppose	represent
	support						
250.	deferment	deferral	postponement				
251.	degrade	cheapen	demean	disgrace			
252.	delude	cozen	decieve				
253.	demand	ask	call for	exact	involvenessitate	need	
	postulate	require	requirement	take			
254.	depot	entrepot	storage	store	storehouse	terminal	
	terminus						
255.	deprave	corrupt	debase	debauch	demoralise	misdirect	
	pervert	profone	subvert	vitiate			
256.	depravity	corruption	degeneracy	depravation	putrefaction		
	turpitude						
257.	deprecate	depreciate	vilipend				
258.	depress	deject	demoralise	dismay	dispirit	lower	
259.	derail	jump					
260.	depute	assign	delegate	deputise	designate		
261.	derelict	abandoned	bedraggled	creaky	decrepit	delinquent	
	deserted	dilapidated	neglectful	ramsackel	remiss		
	tatter	demalion	woebegone				
262.	deride	bemock	mock				
263.	derive	come	deduce	deduct	descend	educe	gain
						infer	
264.	derring-do	adventurousness	audacity	bravado			
	courage	overboldness	risk-taking	valor	venturousness		
265.	descendant	descendent					

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266.	describe	account	delineate	depict	discover			
	distinguish	draw	identify	key	line	name	report	trace
267.	design	aim	blueprint	conception	contrive		designing	
	excogitation	figure	innovation	intent	intention		invention	
	pattern	plan	project	purpose				
268.	desolateness							
269.	desirability	desirableness	oomph	sex	appeal			
270.	desolation	bareness	bleakness		devastation		forlornness	
	loneliness	nakedness						
271.	desperado	desprate	criminal					
272.	despicability	bareness	contemptibility				despicableness	
	sordidness							
273.	despondency	despondence	disconsolateness				heartsickness	
274.	despot	autocrat	tyrant					
275.	destitution	impoverishment		poorness			poverty	
276.	destroy	demolish	destruct	'put down'		ruin	spifflicate	
	spificate							
277.	destruct	destroys	spifflicate		spificate			
278.	detach	abstractz	accredit	assign	authorize		charge	
	charter	commandeer	commission	commit			conscript	
	consign							
279.	detain	confined	delay	stay				
280.	detainee	political		detainee				
281.	detect	discover	find	notice	observe			
282.	deterioration	declension		impairment	worsening			
283.	determinant	deciding		determinative	determiner		spitope	
284.	deteriorate	degenerate		devolve	drop			
285.	determine	ascertain		check	decide	find	fix	influence
	learn	limit	regulate	see	set	shape	specify	watch
286.	detractor	depreciator		disparager		knocker		
287.	develop	acquire	arise	break	educate		evolve	explicate
	formulate	germinate		get	grow	modernise		originate
	prepare	produce		recrudesce	rise	train	uprise	
288.	devilment	devilry	deviltry		mischief		mischievousness	
	rascality	roguery		roguishness		shenanigan		
289.	devise	contrive	excogitate	forge	formulate		invent	
	machinate	organise		prepare				
290.	devote	commit	consecrate	dedicate		give	pay	
291.	devotion	cultism	devotedness	idolatry			veneration	
292.	diamond	rhomb	rhombus					
293.	difference	conflict		departure		deviation		dispute
	divergence	remainder						
294.	difficulty	difficultness		trouble				
295.	dignity	gravitas	lordliness	self-regard		self-respect		self-worth
296.	disagree	differ	discord		discord	dissent	'take issue'	
297.	disagreement	discrepancy	dissension		dissonance		divergence	
	variance							

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298.	disappear	evaporate	melt	vanish		
299.	disappoint					
300.	disapprove	reject				
301.	disaster	calamity	cataclysm	catatrophe	tragedy	
302.	disband	dissolve				
303.	disciple	adherent				
304.	discommode	bother	disoblige	incommode	inconvenience	
	trouble					
305.	discord	disagree	discordance	dissension	strife	
306.	discourse	converse	discuss	discussion	disserted	
	preaching	sermontreatment				
307.	discrepancy	disagreement	divergence	variance	variant	
308.	discovery	breakthrough	find	uncovering		
309.	discretion	circumspection		delicacy	discernment	
	discreetness	prudence				
310.	discriminate	seperate				
311.	disdain	condescension	contemn	contempt	despise	freeze off
	patronage	pooh-pooh	reject	scorn		
312.	disease	illness	malady	sickness	unwellness	
313.	disenchant	disillusion				
314.	disguise	camouflage	mask			
315.	disgrace	degrade	demean	discredit	dishonour	
	ignomin	shame				
316.	disgust	nauseate	repel	revolt	sicken	
317.	dishonour	assault	disgrace	outrage	ravage	ravish shame
	violate					
318.	disintegration	annihilation	decay	decomposition	dissolution	
319.	disinterest	neutrality				
320.	disparage	belittle				
321.	dispatch	complete	despatch	expedition		
	expeditiousness	hit	murder	off	removeshipment	slay
322.	dispersal	diffusion	dispersion	dissemination		
323.	dispersion	dispersal	diffusion	dissemination	scattering	
324.	display	exhibit	expose	presentation	show	showing
325.	dispossession	eviction	exorcism			
326.	disprove	confute				
327.	disproof	falsification	falsifying	refutal	refutation	
328.	disputation	arguing	argument	contention	contestation	
	controversy	debate	disceptation	tilt		
329.	dispute	altercate	argufy	challenge	conflict	
	contravention	difference	gainsay	quarrel	scrap	
330.	disquiet	anxiousness	cark	disorder	distract	perturb
	trouble	unease	uneasiness	unhinge		
331.	disruption	break	commotion	dislocation	disturbance	
	flutter	gap	hoo-ha	hoo-hah	interruption	kerfuffle
	perturbation	to-do				
332.	dissidence	disagreement				
333.	dissatisfaction	discontent	discontentedness	discontentment		
334.	dissect	analyze	analyse			

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335. dissolute debauched degenerate degrade dissipated
fast libertine profligate riotous
336. distress distraint hurt straitensuffering
337. distribution dispersion distro 'statiscal distribution'
338. distrustdistrustfulness misgiving mistrust suspectsuspicion
339. doer actor worker
340. domination mastery supremacy
341. doughty hardy
342. down blue consume depressed devour disprinted
downcast downhearted downward downwardly downwards
fine-tune glommy grim kill land low mastered
pile polish pop refine
343. dowry dower doweryportion
344. drastic forceful
345. dream aspiration daydream dreaming stargaze
woolgather
346. dressmaker modiste needlewoman seamstress sempstress
347. drink beverage booze boozing crapulence deglutition
drinkable drinking drunkenness fuddle imbibe pledge
potablesaluta swallow toast
348. dinker
349. drudge dig fag 'galley slave' grind hack hacker labour
navvy toil travail
350. dubietydoubt doubtfulness dubiousness incertitude uncertainty
351. dust debris detritusdisperse dot junk rubble scatter
spinkle
352. eager bore eagre 'tidal bore'
353. earldom Lordship ally colony commonwealth
county domaindominion duchy dukedom empire kingdom
kingship
354. earnings lurge net pay profit profits remuneration salary
wage
355. earth 'dry land' globe ground land 'solid ground' 'terra firma'
world
356. ease ally alleviate comfort easiness facilitate
informality relaxation relief repose rest simpleness
simplicity still
357. eatables comestibles edibles pabulums victuals
victualses
358. ebullience enthusiasm exuberance
359. economical economic frugal scotch sparingstinting
360. edginess disquietude inquietude uneasiness
361. educator pedagogue
362. education breeding didactics instruction pedagogy
teaching training
363. effacement self-effacement
364. effect burden consequence core ffectuate essence event
force gist impression issue outcome result upshot

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365. effectiveness effectivity effectuality effectualness potency
strength
366. effeminate cissy emasculate epicene sissified sissy
sissyish
367. effervesce fizz foam 'foam bubbles' froth sparkle
368. effort accomplished fact accomplishment achievement act
action adventure affair answer application approach
artifice assay attainment attempt
369. effulgent beaming beamy effulgent radiant
370. effusion abundance amplitude big mouth candour
discharge drain drainage ejaculation ejection
elimination emission excretion exhaust extravagance
371. ejaculate exhaust discharge expel eject release
372. ejecta ball dejection discharge discuss effluent
ejection excrement missile projectile quoit waste
373. elevate acculturate advance aggrandize ameliorate
amend beatify better boost bring forward' buoy up
canonize civilize crown
374. elevation accession acclivity ccretion accrual
accumulation acme addition advance advancement 'aerial
heights' aggrandizement altitude amplification
375. elide abbreviate abridge abstract bob boil down
capsulize ast off cast out chuck clear clear away
clear out clear the decks clip
376. eliminate abandon bstract amputate annihilate
assassinate ban bar bate blow blow out bob cast
cast aside cast away
377. elimination abolishment abolition abscission amputation
annihilation annulment assassination bloody murder bumping-off
cast-off castaway choking
378. elopement AWOL French leave absence without leave
banns bolt bridal bridal suite church wedding civil
ceremony civil wedding decampment desertion
disappearance disappearing act
379. eloquent affecting ardent articulate cogent convincing
declamatory effective elocutionary expressive facile
felicitous fervent fervid fluent
380. elucidate account for annotate clarify clear clear
up crack decipher demonstrate demythologize enlighten
exemplify explain explain away explicate
381. elude avoid baffle baulk beg bewilder bilk blast brave
challenge checkmate circumvent confound confront
confuse
382. elusive baffling cagey evanescent evasive fleeting
fugitive impalpable imponderable incomprehensible
indefinable insubstantial intangible malingering mysterious
383. emaciate atrophy attenuate consume dilute
macerate parch pine away preshrink rarefy

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384. emaciation anorexic atrophied attenuate attenuated
bony cadaverous consumptive famished gaunt haggard
lank lean meager peaked pinched scrawny skeletal
skeletonlike skin-and-bones skinny starved thin as rail
underfed wasted wizened
385. emancipated at large clear delivered detached disengaged
easygoing extricated footloose footloose and fancy-free
free
386. embankment abutment anchorage anthill backstop
bamboo curtain bank bar barrage barrier basin beach beam
387. embark air-express airfreight airmail assume begin board
commence consign dispatch emplane enter
388. embarrass abash absorb addle agitate awkward ball up
becloud bedazzle befuddle bewilder bother bug
burden
389. embattled armed arrayed engaged militant ranged
390. embed comprise confirm contain deep-dye define
enclose enfold engrave entrench establish etch fix
found
391. embellish adorn apparel array beautify bedeck bedizen
belie blazon camouflage caparison colour convolute
cultivate dandify
392. embitter acerbate afflict aggravate aggrieve
alienate amplify anguish annoy antagonize arouse
augment bitter
393. emblem adumbration allegory armoury attribute
badge badge of office badges baton
394. embody absorb actualize add admit adumbrate affect
amalgamate assemble assimilate betoken blend body
brandish
395. embolden abet advocate aid and abet animate
assure bolster brace up buck up chance cheer comfort
countenance encourage endo
396. embouchure bell chaps chops gab gob horn jaw jaws
jowl key kisser lip lips mandibles
397. emiiter
398. emotion a high affect affection arousal attitude excitability
excitement exhilaration experience feeling foreboding
399. employee assistant blue-collar worker breadwinner
casual factory worker flunky free-lancer hand helper
400. employer boss business chef chief church dignitary
company consumer corporation director elder
establishment firm gaffer governor
401. empty abandoned absurd aimless airy apparently sound arid
asinine awkward banal bare barren baseless blah bland
402. enchant absorb allure arrest attract beguile bewitch
captivate catch charm delight draw

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403. enchanting absorbing alluring appealing appetizing
 arresting attractive authoritative beguiling bewitching
 blandishing cajoling captivating catching charismatic
404. enchantress delilah femme fatale siren temptress witch
405. encounter brush bumo chance clash come across coming
 upon confrontation face-off find happen meet meeting
 play receive run across run into see showdown
 skirmish take on
406. end cease close closing conclusion death destruction
 ending final stage finish goal last oddment remainder
 remnant stop terminal terminate
407. engraver graphicartist printmaker skilled worker skilled
 workman trained worker
408. engrossing absorbing engaging engulfing fascinating
 gripping immersing occupying plungging riveting
 soaking up steeping
409. enhance heighten raise
410. enjoy bask delight love relish revel savour
411. enmity antagonism hostility ill will
412. enormous ginormous tremendous
413. enoughadequate decent nuff plenty sufficiency
414. enrich add ameliorate amend better improve meliorate
415. entertain harbour hold nurse toy with
416. entice lure tempt
417. envious covetous jealous
418. environment surround surrounding
419. error fault misplay mistake wrongdoing
420. eructation belch belching burp burping eruption
 extravasation
421. erupt belch break burst catch fire combust come out
 conflagrate extravasate flare ignite irrupt push through
 recrudescence take fie
422. escort accompaniment bodyguard date see
423. establish base build constitute demonstrate found give
 ground instal institute launch lay down make plant prove
 set up shew show
424. establishment admisnistration brass constitution ecesis
 formation governance institution organisation validation
425. euphonious euphonous
426. evaluate appraise assess judge measure pass
 judgment valuate value
427. evaluation rating valuation
428. eve even evening eventide
429. even eve even out evening eventide fifty-fifty
 flush level regular still tied yet
430. evening eve even eventide flushing leveling
431. event case consequence effect issue outcome result
 upshot

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432. eviction dispossession legal ouster
433. evictor
434. evidence attest certify demonstrate grounds manifest
prove show tell testify
435. evil evilness immorality iniquity maleficmalevolent
malign viricious wickedness
436. evince expressshow
437. evoke arouse bring up call down call forth conjuredraw
out educe elicit enkindle fire invoke kick upprovoke raise
stir suggest
438. evolve acquiredevelop germinate
439. extinguish annihilate 'blow out' 'carry off' 'crush out'
decimate 'do away with' eliminate eradicate 'get rid of'
press out quench
440. eye centre middle oculuc optic
441. fabulous fab mythic mythical mythological
442. facetious bantering tongue-in-cheek
443. facilitate
444. fact concept construct information reality realness
445. factitious artificial unreal
446. faddishfaddy
447. failure bankruptcy loser nonstater no-hoper unsuccessful
perso
448. fain disposed gladly inclined prepared
449. false assumed delusive faithlessly fake faux
fictitious fictive imitation mistaken off-keypretended
sham simulated traitorously untrue
450. family category class fellowship folk home house kin
kinfolk kinsperson mob phratry sept syndicate
451. famousbig-name celebrated farmed illustrious notable
renowned
452. far abase apart asunder away considerably distal
distant exotic
453. farm grow produce raise
454. fascinate becharm beguilebewitch captive capturecatch
charm enamour enchant entrance grip intrigue
spellbind trance transfix
455. fast debauched degenerate degrade dissipated
dissolve fasting firm flying immobile libertine loyal
quik
456. fertilitybirth rate fecundity fertilityrate natalityprolificacy
rankness richness
457. festivalfete
458. fidget fidgetiness restlessness
459. fiend daemon daimondemon devil fanatic monster ogre
460. fire ardour arouse attack blast discharge dismiss
displace elicit enkindle evoke fervency flack flane
fuel

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461. flaunt flash ostentate parade show off swank
462. flesh-pot
463. flood alluvion deluge glut inundate inundation
outpouring overflow oversupply swamp torrent
464. fly aviate fell flee pilot vanish vaporise
465. food grub nutrient
466. footwear footgear
467. foreseeable predictable
468. forest afforest timber timberland wod woodland
woods
469. forget blank out block bury draw a blank
470. forgive pardon
471. forthwith at once directly immediately instantly now
right away straight off straightaway
472. foster further nurture surrogate
473. fruit yeild
474. full broad entire fully good replete total wax wide wide-
cut
475. fundamental cardinal central first harmonic key
primal profound rudimentary underlying
476. funerary
477. gain acquire addition advance amplification arrive at
attain benefit derive earn gather hit increase make profit
reach realise take in win
478. gamester backer bookie bookmaker cardsharp crapshooter
dicer gambler highroller player plunger risktaker
skill speculator
479. go activity animation bang birr drive energy force get-
up-and-go hardihood life moxie oomph pep potency push
snap starch tuck verve vigor vivacity zest
480. goal destination end finish
481. gold aureate aurelian auric auriferous aurous gilded gilt
halcyon
482. good adept beneficial commodity dear dependable
effective estimable expert full honest just respectable
right ripe safe salutary unspoilt
483. goods commodities
484. habit addiction assuetude bent bias constitution
consuetude convention custom dependence disposition
fashion fixation gravitation groove habitude hangup
impulsion inclination make-up mannerr mannerism mode
nature obsession pattern penchant persuasion praxis
predisposition proclivity proneness propensity quirk
routine rule rut second nature set style susceptibility thing
turn usage use way weakness wont
485. hair fuzz pilus tomentum whisker
486. haj
487. hamlet crossroads village

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488. hand 'bridge player' deal give manus mitt pass paw reach
script turn over
489. head brain capitulum caput channelise chief drumhead
forefront foreland guide lead mind
490. heath wellness
491. healthygoodlish hefty intelligent levelheaded respectable
salubrious sizable sound tidy
492. hear discover see try
493. heaven nirvanaparadise promised land
494. hell blaze hades netherworld perdition pit sin
underworld
495. here hera hither
496. hill mound
497. high eminent gamey gamy height luxurious mellowrichly
498. hope desire promise trust
499. husbandman farmer
500. identity identicalness indistinguishability individuality
501. idiot changeling cretin half-wit imbecile moron retard
thicko
502. ignore cut discount dismiss disregard neglect snub
503. ill ailmentbadly complaint inauspicious ominous
poorly sick
504. ill treatment abuse ill-usage maltreatment
505. illustrate exemplify instance
506. implore beg pray
507. improve ameliorate amend better meliorate
508. imprison immure incarnate jail jug lag
prison remand
509. inform alter change communicate intercommunicate modify
510. introduction creation debut entry foundation founding
initiation innovation insertion instauration institution
intro intromission launching origination presentation
unveiling
511. invasion encroachment intrusion
512. invert reverse
513. investigate enquire
514. invite allure attract beg bid call command countenance
court draw encourage entice entreatinsist inveigle
invitation issue lead lure persuade petition ply
pray presspropose provoke request solicit suggest
summon supplicate tempt toll urge vamp welcomewoo
515. islam islamism
516. jack
517. jacob
518. jail clink immure imprison incarcerate prison
remandslammer
519. jesus Christ Deliverer
520. join articulation conjoinconnect joint junction
juncture link sum union unite

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521. joseph
522. jungle boscage bush chaparral forest labyrinth maze
morass tangle undergrowth wasteland web wood zoo
523. justice Department of Justice judge jurist justness
524. keep continue celebrate dongeon hold livelihood
living maintain observe preserve prevent proceed
restrain retain save support sustain sustenance
525. key cardinal cay central descibediscover distinguish
fundamental headstone identify paint samara tonality
winder
526. kill defeat down killing obliterate pop
527. kinsman relation relativeannihilate asphyxiate
assassinate crucify dispatch do in drown dump electrocute
eradicate erase execute exterminate extirpate finish
garrote get guillotine hang hit immolate liquidate
lynch massacre murder neutralize obliterate off poison death
sacrifice slaughter slay smother snuff strangle
suffocate waste zap
528. knowledge cognition noesis
529. labour activities activityaffair affairs aim amplify
assignment bag bear
530. lack absence adulteration arrearage awayness
beggarliness beggary blank
531. lackey adherent apple-polisher ass-licker backslapper
brown-nose brownie courtier creature cringer
dependent disciple dummy dupe fawner
532. lamp light broadside candle candlelight eye fire flame
flashbulb flashgun floodlight glim headlight
illuminant
533. landowner landlord proprietor squire
534. large Gargantuan adipose altogether ample astronomical
awesome beneficent big bighearted boundless
bounteous
535. large-hearted
536. law priori truth act appointment assize axiom ban bill
bobby brevet bring action against bring into court bring suit
bring to justice bring to trial
537. lender banker factor loan shark moneylender mortgagee
pawnbroker
538. liability a thing for accountability affinityamenability
aptitude aptnessarrearage arrears barrier bent
539. liar Satan equivocator fabricator falsifier fibber
perjurer prevaricator storyteller
540. liberator Messiah deliverer rescuersaviour
541. life Clio activator activityadventures affairs age
alacrityanimal spirits animation animator annals anxiety
anxiousness

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542. light Mickey Mouse abuse accented account
acquaintance active aerial agile airy alabaster alfresco
alight alveolar amplitude
543. limited Lenten Spartan abstemious ascetic austere authoritative
borne bound bounded boxed in chastened
circumscribed close
544. lily-livered afraid chicken coward cowardly cowed
craven daunted dismayed faint-hearted fearful funky
gutless intimidated mousy
545. load abundance acres adulterate affliction albatross
anxiety bag baggage bags bale barrel barrels bear
546. loan accommodate with accommodation advance allow
allowance credit float a loan lease-lend lend lend-lease
loan-shark
547. lock accord agree articulate assent assort with authority
bang bar barricade barrier batten
548. lone a certain abandoned absolute alienated alone
aloof an any apart atomic celibate deserted
549. long a mile long ache aeon age ages aim aspire big
550. look admire air angle animadvert anticipate appear
appear like appearance ask for aspect attend await be alert
551. lord Highness Honour Jehovah Lady Lordship
Majesty Providence milady
552. love Aphrodite Cupid Eros Venus accord accordance
admiration admire adoration adore adulate adulation affair
affection
553. luck accident actuarial calculation adventitiousness
blessing break bump calculated risk capriciousness
casualness chance chances chanciness changeableness
destiny
554. main Europe absolute all-absorbing arch awful banner basic
big biggest blue brine briny
555. mainmast
556. maintain abide accommodate advocate affirm afford allege
announce announce annunciate answer argue argue for
557. major OD a cut above above adult ahead aide aide-de-
camp area ascendant better big big-league big-name
558. make abide by abscond accomplish achieve
acquire act administer affect affirm aftermath aggressive
559. Maker actor agent ancestors apprentice arch-poet
architect artificer artisan artist artiste author bard beat
poet
560. mecca
561. malice abhorrence abomination animosity animus antagonism
antipathy aversion bane belligerence bigotry bile
bitchiness bitterness clash
562. malign antagonistic antipathetic atrocious backbite bad-
mouth baleful baneful barbaric barbarous befoul besmirch
bespatter bestial bitchy

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563. mam
564. manage accomplish achieve administer administrate
animal husbandry animal rearing attain bed
565. mankind clay flesh hominid homo human humanity
man manhood men mortality society sword side
566. marriage addition affiliation agglomeration agglutination
aggregation agreement alliance amalgamation articulation
assimilation association banns blend blending
567. marrow axiom axis bottom brains centre centroid
chitterlings cockscomb core dead centre distillate
distillation
568. master OD absorb ace adept administration administrator all-
absorbing ancestors appreciate apprehend apprentice arch
architect
569. material absolute abundance accumulation actual
adducible admissible air animal apparatus appertaining
applicable applying apposite
570. maternity affiliation alliance ancestry blood
brotherhood cognation connection consanguinity fatherhood
fraternity kindred
571. mature accomplish accrue adult advance age aged all
ready all set archetypical armed armed and ready assemble attain
majority back
572. meanwhile ad interim at a stretch for the nonce interim
interval meantime temporarily the while while
573. measure a accent accentuation accommodate
accommodation accomplishment accord achievement
acreage act action adapt
574. medical chiropractic clinical croaker dental doc doctor
homoeopathic mediconeurological obstetric orthodontic
orthopaedic osteopathic paediatric
575. message ESP account acknowledgement acquaintance
address advice announcement answer assembler bearer billet
576. messenger
577. mind affect memory aim ambition ambivalent
animadvert animus appetite aptitude ardour aspiration
assumption astral body astuteness atavism
578. mock abuse adopt affect affected affront alike alternate
alternative ape aped apocryphal appropriate artificial
aspersion
579. mockery a continental a curse a damna a darn a hoot absurdity
abuse affront aspersion atrocity bagatelle banter
bauble bean
580. mose
581. moslem
582. mountain abundance accumulation acres alp bags bald
bank bar barrel barrels bilge blister blob bluff

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583. move accomplished fact accomplishment achievement
acquit act action activate activityactuate actuation
admonish advance advancing adventure
584. muhammad
585. mum bashfulclosemouthed hushed mute muted nonvocal quiet
reserved secretive shy soundless speechless still
tight-lipped tongue-tied uncommunicative unsociable
unspeaking voiceless wordless zipped
586. naked absolute apparent bald bare bare-ass bared
barefaced blank blatant blunt clarified clear cleared
colourless
587. neck abbreviation advocate and quarter ankle arm
articulation astringency back backbone backing
bandeau bearer
588. need absence ardour arrearage ask basic
589. neighbour abut abut onabutter acquaintance adjacent
adjoin adjoining advocate alter ego backer border
590. night all the time blackness ceaselessly charcoal coal
continually continuously crow dark darkness dusk
ebony
591. numinous all-knowing all-powerful all-seeing all-wise
almighty ambiguous arcane awe-inspiring awesome awful
awing bizarre boundless
592. nurture breeding care diet discipline edibles education
feed food instruction nutriment provender provisions
rearing subsistence sustenance training upbringing
viands victuals
593. oarsman bargeman boat-handler boater boatman
ferryman gondolier oar punter rower waterman
yachtsman
594. obey abide by accede accept acquiesce act agree agree
to assent bow
595. object affair agree to disagree aim an existence
artefactarticle attribute attributive ban baulk beef being
bitch
596. obligate accept obligation commit compelconstrain
contract engage force
597. obligation accountability affair agreement allegiance
amountdue appreciation appreciativeness aptitude
aptnessarrearage
598. obliteration absent mindedness blot blotting cancel
cancellation deletion effacement erasure forgetfulness
forgetting forgiveness grace period
599. observance accommodation accord accordance acquiescence
adaptation adherence adhering adjustment adoration
agreement alertness allegiance anniversaries assiduity

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600. observation accordance acquittal acquittance address
adherence affirmation alertness allegation
announcement answer apostrophe apprehension assertion
assiduity
601. observe accommodate accord adapt adjust administer
animadvert
602. obstruct arrest back-pedal backwater bar barricade
bind bolt brake bung
603. occupant addressee artist-in-residence boarder
denizen dwellerhabitant hirer homesteader householder
incumbent inhabitant inmate inpatient
604. occupation abidingabode act acting action activism
activities activityadoption affair affairs agency appointment
605. occupy absorb amuse attend busy divert employengage engross
entertain fill immerse interestinvolve monopolize
preoccupy soak utilize
606. occur appear arise be
607. ocean abundance acres bags barrels blue brine briny
bushel copiousness deep drink flood gobs
608. odd abnormal absolute absurd algorithmic aliquot alone
anomalous asymmetric cardinal casual celibate
chance contingent
609. offenceaffront aggravated assault aggression aspersion
assailing assault atrocity attack blitz
610. offhand Bohemian abrupt ad lib ad-lib affable airily airy
aloof anyhow brusque
611. One I aa certain ace aggregate alike all all-
embracing all-inclusive all-knowing all-powerful all-seeing
612. outnumber
613. outvoteoverwhelm out-ballot
614. overcome affected beat beaten best bested better blind
blotto break broken-down broken-hearted cap
615. pain abscessache aching afflict affliction aggrieve
agonize agony ague ail anaemia anguish
annoyance asphyxiation
616. parent agent ancestor ancestral author beginner
catalyst causer creator effector father fatherly
generator grandfatherly grandmotherly
617. pay accomplish achieve advantage afford angel
answer attend to avail back bankroll
618. peace accord accordance affinityagape agreement amity
armistice arrangement array assent
619. pearl acceptable person alabaster ashen ashy bead boast
catch chalk cream creamydapple dapple-grey dappled
620. perform accompany accomplish achieve act affect
ape appear attain barnstorm
621. performer Thespian actor actress affecter agent
architect artist artiste author

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622. permanent abidingage-long aged ageless all-knowing all-
powerful all-seeing all-wise almighty ancient antique
assiduous boundless ceaseless
623. permission OK acceptance accord acquiescence affirmation
affirmative affirmative voice agreement allowance
approbation approval assent authentication
624. persecution abuse affliction aggravation annoyance bad
news bedevilment bore bother bullying clawing crashing
bore crucifixion devilmnt difficulty
625. perspicacity acuity acumen acuteness astuteness clear
sight cogency discernment discrimination eye
626. perspire exude melt sweat swelter wilt
627. pertinent ad rem admissible appertaining applicable
applying apposite appropriate apropos apt
associative belonging comparable comparative congenial
628. pervade breathebrew charge colour diffuse dredge dye
extend throughout fill flavour honeycomb imbue
629. pity abomination acceptance ache atrocity be sorry for
bleed bleed for clemency commiserate commiseration
compassion compassionate condole with condolence
630. place OK a leg up abidingplace abode addressadvance
airspace align allegiance alley alleyway allocate
631. ploy connections deal game intrigue lobbying ploy
schemestrings
632. plucky bold courageous dauntless doughty fearless
game gamy gritty gutsy mettlesome nervy pertinacious red-
blooded resolute
633. poor Lenten abject abominable abstemious against amateurish
arrant artless ascetic atrocious attenuated austere
634. position abode addressaffect affirmation allegation
allocate angle angle of vision announcement annunciation
answer apostrophe appointment
635. possession Mammon aberration abnormality accessories
acquireacquisition affluence alienation ally aplomb
appointments appurtenances assets assurance
636. poverty beggary dearth destitution difficulty
distress embarrassment exigency hand-to-mouth
existence hardship impecuniousness impoverishment
inadequacy indigence insolvency
637. power Establishment Lordship VIP ability able absolutism
acme activityactuate administration ally ampleness amplitude
638. practice
639. pray adjure appeal ask beseech brace crave entreat
implore importune invoke invoke petition recite
request say solicit sue supplicate urge
640. predict adumbrate anticipate approach augur await bet
call

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641. predictable anticipated apt balanced calculable cool
dependable expected fair faithful fast fiducial firm
foreseeable foreseen
642. prediction
643. pregnancy abundance appropriateness auspiciousness
babyhood beginnings bigness birth bountifulness
brooding childhood convenience copiousness covering
cradle
644. preliminary advance advanced antecedent anterior
arrangement avant-garde basic training beginning breakthrough
briefing chief
645. prelude antecedence breakthrough descant dominion foreword
front matter frontispiece innovation introduce introduction
646. preparation adaptation anticipation apprenticeship architecture
armament arrangement assembly balm balsam breaking
breeding briefing building
647. preparatory antecedent anterior basic before chief
elementary essential first foremost fundamental
inaugural inductive initiatory
648. prepare accommodate accoutre adapt afford appoint apprentice
arm arrange assemble author bake barbecue baste
649. prerequisite arrangement briefing call for catch clause
clearing the decks condition demand demand for
demanded
650. presage actuarial prediction adumbrate apocalypse
apprehensiveness augur augury bespeak betoken bode
boding cast a horoscope cast a nativity clairvoyance divine
651. presentation accommodation accordance account
acquaintance advance announcement apparition appearance
appearing appointment approach arising
652. prevalent abounding abundant accepted accidental
accompanying ado affluent afloat afoot ample plenty
653. prevent abort anticipate arrest avert avoid baffle ban bar
balk block check control curb dam
654. prevention bortion anticipation arrest arresting avoidance
ban bar barring balk baulking block blocking check
655. pride anger army arrogance assurance assuredness
avarice belief best bighead boast boastfulness brag
bunch
656. private absolute anonymous antisocial certain clandestine
closet concealed concrete confidential confidentially
covert covertly
657. problem ado aggravation annoyance anxiety baffle
bafflement basis bedevilment bewilderment blemish bore
658. proceed accept act advance arise assume attack
attempt
659. process act activity algorithm alter answer approach
arrange attack barber blueprint

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660. proclaim advertise affirm allege announce annunciate
antedate anticipate argue articulate assert asseverate
aver avouch avow
661. proclamation broadcast declaration decree edict manifesto
notice notification promulgation pronouncement
pronunciamento publication
662. production accomplishment achievement act action
adaptation adventure aftermath aleatory anatomy
architectonics architecture
663. professed accepted acknowledged admitted affirmed
alleged allowed announced apparent approved
asserted asseverated attested authenticated averred
664. proffer accord administer advance afford allot allow
approach award bestow bid communicate confer
665. profit advance advantage advantageousness advisability
aid answer appropriateness avail avails bait benefit
666. progression Indian file accomplishment advance
advancement alternation amelioration amendment amplification
array articulation ascension ascent bank bettering
667. prohibit anticipate arrest avert ban bar bar out block
blockade bridle check constrain contain control
668. prohibition arrest ban bar barring blockade boycott check
circumscription constraint control
669. prominence account altitude authority bas-relief
bellying blatancy boldness bulge bulging
ceiling ceiling unlimited celebrity clarity
670. promise affianced affirmation agreement asseveration
assurance avowal betrothal bond commitment compact
consent contract covenant earnest engagement
espousal guarantee insurance marriage oath
obligation pact parole pawn pledge plight profession
security stipulation swear swearing token troth
undertaking vow warrant warranty word
671. property Mammon acreage acres affection
affluence aroma assets attribute badge balance
banner belongings
672. prophet Cassandra Druid astrologer augur clairvoyant
daydreamer diviner dreamer enthusiast escapist
forecaster
673. muhammad
674. propose advance advise advocate aim ask assert
bid brief
675. proscription
676. protect abet advocate aid arm armour assist avail
befriend benefit bless bulwark
677. protected armed cloaked conserved copyrighted
covered defended guarded immune immunized
insured intact invulnerable kept patented

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678. protection aegis aid armament armour arrest assistance
assurance barrier benefit bill of health bimetallism blackmail
boodle
679. protester apostate bitter-ender brawler defendant
disputant dissenter dissident intransigent
irreconcilable last-ditcher litigant naysayer nonconformist
objector
680. protest affirm affirmation allegation allege announce
announcement announce annunciation argue assert assertion
asseverate asseveration aver
681. provider caterer chandler commissariat commissary donor
furnisher manciple merchant patron provisioner
purveyor quartermaster retailer steward
682. provisional accidental ad hoc adventitious aleatory
alternate alternative backup band-aid casual
circumstantial conditional contingent counterfeit cut-and-try
683. prow beak bow companion figurehead nose parts
rostrum ship stem
684. pry Peeping Tom back-seat driver bar beam boom
burrow busybody crank crow crowbar
685. pseud affected apocryphal artificial assumed
bastard bogus coloured counterfeit counterfeited distorted
dressed up dummy embellished embroidered
686. public Everyman John Doe accessible acknowledged
adherent admitted affirmed alehouse announced
apparent appendage associated attendant audience
687. pull abandon accomplish adduct adduction affinity allure
allurement amperage appeal apprehend arrest arrive
assume attack a boner
688. punish abuse admonish agonize amerce avenge banish batter
beat birch bloody bring to account
689. punishable actionable anarchic anarchistic anomic
black-market bootleg chargeable contraband criminal
felonious flawed illegal
690. punishment abuse admonishment admonition amercement
banishment battering beating caning cashiering castigation
chastening chastisement chastising comeuppance
691. purchase achieve acquire acquiring acquisition
advantage approach ascendancy attain authority bite
bribe buy
692. purchaser consumer customer patron trader user
693. purdah
694. pure Christian Christlike Spartan absolute
abstract aesthetic all-embracing all-encompassing all-
out all-pervading angelic antiseptic artistic
695. pursuit accomplishment activity aim area art avocation
bag business butt by-end by-purpose calling career
career building

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696. purvey cater coal deliver feed fill up forage fuel gas oil
provide provision sell supply top off
697. purveyor caterer chandler commissariat commissary donor
furnisher manciple merchant patron provider
provisioner quartermaster retailer steward
698. push accelerate actuate advance adventurousness
advertise advocate aggrandize aggression
aggressiveness ambition ambitiousness
699. put affirm air allege announce announce apply
approximate argue ascribe assert assess asseverate assign attach
700. putrefy canker corrupt crumble decay decompose deteriorate
disintegrate fester gangrene
701. quake apoplexy bob bobble bounce breakup bump
cataclysm chatter chill climax convulsion disaster dither
702. qualification ability about-face acceptability accommodation
adaptation adequacy adjustment admissibility allowance
alteration amelioration apostasy applicability appositeness
703. qualify abate accommodate adapt adjust adjust to alter
ameliorate answer ascribe assign assuage attribute
attune authorize
704. question absurd address affirmation allegation answer
apostrophe apprehension approach ask assertion
705. questionable absurd ambiguous amoral arguable at issue
beguiling borderline catchy conjectural conscienceless
contestable
706. questioner asker busybody catechist cross-interrogator
cross-questioner detective eavesdropper examiner
gossip inquirer inquisitive inquisitor interlocutor
707. queue array articulation bank braid brush bun buzz
catenation chain chaining chignon
708. quibble adverse criticism animadversion argue around the
bush aspersion bicker boggle captiousness carp
709. quick able aboveground abrupt acquiescent acute adept adroit
agile agog agreeable alert alive
710. query ask concern doubt dubiety inquiry interrogation
interrogatory mistrust objection problem question
questioning reservation skepticism suspicion uncertainty
711. quell annihilate conquer crush extinguish hush up kill
overcome overpower put down put the lid on queer
quench shut down silence sit on stamp out stifle stop
subdue subjugate vanquish
712. quench allay appease asphyxiate assuage blunt
censor chill choke cool cork
713. quest adventure bay cast about chase crusade delve
for delving dog dogging domiciliary visit
714. quick able aboveground abrupt acquiescent acute adept adroit
agile agog agreeable alert alive
715. quiet abate aesthetic allay appease arrangement
array artistic asleep back-door backstairs

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716. quit abandon abdicate abjure abort abscond
acquit act atone bear
717. quisling apostate backslider betrayer betraying
bolter cockatrice collaborationist collaborator conniver
conspirator convertconvict
718. quitter chicken cowardcraven funk poltroon turnabout
719. quive all-overs bale bang be coldbeat beatingbicker
bindle bob bobble bolt boot bouncebouquet
720. race airstream backwash hasten rush
721. rackingexcruciating extorting gouging scudding
722. ragging annoying baitingbedeviling berating
723. rainfallrain
724. rainstorm rainfall storm
725. Ramadan fast fasting
726. rancherranchman
727. rapacity avariceavarita covetousness edacitygreed
728. rapid speedy
729. rapist raper
730. ravage depredation desolate devastate
731. ravish assault delight dishonor rape
732. raw bleake crude cutting naked
733. ray beam radiate shaft
734. reach accomplish acieve attain compass contact
735. read intepret learn record registersay scan
736. reader lector lecturer referee reviewer
737. reality realismrealness
738. reap draw glean harvest
739. reasoning arguing concluding intelligent thinking
740. recognition acknowledgement credit identification
741. recollect recall retrieve think
742. recollection anamnesis recall remembrance
743. recommend advocate commend urge
744. reconciled accommodated conciliated harmonize
745. recondition condition
746. recoverconvalesce find recoup recuperate
747. recreant apostate craven deserter poltroon
748. rectification correction
749. recuperation convalescene recovery
750. recur reoccurrepeat resort
751. recurring reoccurring repeating resorting revenant
752. recusant dissentient nonconformist
753. redeemdeliver ransomsave
754. redeemer Christ deliverer saviour
755. redemption buyback repurchase salvation
756. reel bobbin careen gyrate keel lurch
757. refine complicate down elaborate polish rarify
758. re-form reclaimrectify regenerate
759. refresh freshenreview

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760.	refrigerate					
761.	refuge	asylum	recourse	resort	safety	sanctuary
762.	refugee	exile	expat	expatriate		
763.	refund	repay	repayment	return		
764.	refurbish	renovate				
765.	refusal	content	denial	message	substance	
766.	refutation	defence	disproof	falsification	falsifying	
767.	refute	rebut				
768.	regain	find	recover	retrieve		
769.	regale	treat				
770.	regardful	deferent	deferential			
771.	regenerate	reclaim	rectify	reform	renew	
772.	regeneration					
773.	regress	lapse	recidivate	relapse	return	
774.	regret	repent	rue	sorrow		
775.	regroup	reorganize				
776.	regular	even	fixture	habitué	steady	
777.	regularity	balance	clockwork	conformity	congruity	
	consistency	constancy	harmony	invariability	orderliness	
	periodicity	precision	predictability	proportion	punctuality	
	recurrence	rhythm	rotation	routine	steadiness	symmetry
	uniformity					
778.	regularize	govern	order	regulate		
779.	regulate	baffle	determine	govern	influence	mold
780.	regulation	ordinance	regulating	rule		
781.	regulator	governor				
782.	rehabilitation	reclamation	renewal			
783.	rehear	retry				
784.	reign	dominate	prevail	rule		
785.	reinforce	re-enforce	reward			
786.	reincarnate	renew	transmigrate			
787.	reincarnation	rebirth	renascence			
788.	reinforcement	reward	strengthen	support		
789.	reinstate	reestablish	restore			
790.	reiteration	reduplication				
791.	reiterate	ingeminate	iterate	repeat	restate	
792.	reject	cull	decline	disdain	eliminate	resist
793.	rejig	rearrange				
794.	rejoice	exuberate	exult	joy		
795.	rejoin	repay	retort	return		
796.	rejoinder	comeback	counterretort	return		
797.	rekindle	arouse	elicit	evoke		
798.	relating	associating	concerning	linking		
799.	relax	decompress	loose	slack		
800.	release	acquittance	button	departure		
801.	relent	soften	yield			
802.	relentless	grim	persistent	stern		
803.	relevant	applicable	germane	pertinent		

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804.	relief	alleviation	ease	reliever	
805.	relieved	allayed	alleviated	eased	
806.	religion	belief	faith		
807.	relinquish	forego	forgo	free	quit
808.	relish	bask	enjoy	flavor	
809.	relive				
810.	relocate	displace	move		
811.	relocation	move			
812.	reluctance	disclination	hesitancy	hesitation	
813.	rely	bank	swear	trust	
814.	remain	continue	persist	stay	
815.	remains	cadaver	clay	continues	corpse
816.	remand	immure	imprison	jail	jug
817.	remark	comment	input	mention	note
818.	remarkable	noteworthy	singular		
819.	remarriage	marriage	wedding		
820.	remarry	cojoin	espouse	wed	
821.	remedial	alterative	curative	healing	
822.	remedy	amend	curative	cure	
823.	remember	commemorate	commend	recall	
824.	remembrance	anamnesis			
825.	remind	cue	prompt		
826.	reminder	admonisher	monitor		
827.	remindful	evocative	redolent	resonant	
828.	remission	absolution	remit	remitment	
829.	remodel	recast	redo		
830.	remonstrance	expostulation	objection		
831.	remonstrant				
832.	remonstrate	berate	chide	jaw	
833.	remorse	compunction			
834.	remorseful	contrite	rueful		
835.	remorseless	pitiless	ruthless		
836.	remotely	remote			
837.	removable	obliterable			
838.	removal	remotion			
839.	remuneration	pay	salary		
840.	renew	regenerate			
841.	renounce	abdicate	resign		
842.	renown	fame			
843.	reopen	open			
844.	reoccupy				
845.	repair	amend	animate	bushel	
846.	repeat	double	echo		
847.	renovate	animate	quicken		
848.	renovation	overhaul	redevelopment		
849.	renovator	preserver	refinisher		
850.	renown	fame			
851.	rent	charter	hire	rip	

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852.	renunciation	apostacy	defection
853.	reoccupation		
854.	reoccupy		
855.	reorganization	shake-up	
856.	replace	exchange	substitute
857.	repine	complain	kick kvetch
858.	replaceable		
859.	repercussion	backlash	rebound
860.	replenish	refill	
861.	repletion	satiation	satiety
862.	reply	answer	respond
863.	reporting	covering	describing
864.	repose	ataraxis	erase lay
865.	reposeful	relaxing	
866.	represent	act	be comprise
867.	repress	muffle	quash reduce
868.	repression	control	defense
869.	reprieve	abatement	hiatus
870.	reprimand	berate	chide
871.	reproach	upbraid	
872.	reproachful	admonishing	admonitory
873.	reprobate	condemn	decry depraved
874.	reprobation	disfavor	dislike
875.	reproduce	multiply	procreate
876.	reproduction	breeding	replica
877.	reproductive	generative	
878.	repudiation	debunking	renunciation
879.	repulse	drive	repel
880.	repulsive	abhorrent	
881.	request	asking	bespeak
882.	require	ask	expect
883.	requirement	demand	essential
884.	requital	payment	retribution
885.	rescuer	deliverer	saver
886.	research	explore	inquiry
887.	resemblance	aliqueness	likeness
888.	resemble	agree	check
889.	resent	begrudge	
890.	resentful	bitter	rancorous
891.	reserve	allow	backlog hold
892.	reservist	soldier	
893.	reset	readjust	
894.	resettle	locate	settle
895.	reshape	remould	
896.	reside	domicile	occupy
897.	resist	balk	defy fend
898.	resistance	immunity	impedance
899.	resoluteness	firmness	resolve

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900.	resolve	answer	decide	
901.	resonance	plangency	rapport	
902.	resonate	vibrate		
903.	resource	imagination		
904.	resourcefulness	resource		
905.	respect	esteem	fete	
906.	respectability	reputability		
907.	respectful	reverential	venerating	
908.	respiration	breathe		
909.	respire	breathe		
910.	respond	answer	react	
911.	response	answer	reaction	
912.	responsible	creditworthy		
913.	rest	balance	perch	
914.	restore	bushel	fix	
915.	restraint	constraint	control	
916.	restrict	bound	confine	
917.	restricted	limited		
918.	restriction	confinement		
919.	result	answer	ensue	
920.	resultant	attendant	result	
921.	resume	restart	summarize	
922.	resurgence	revival		
923.	resurrect	raise	revive	
924.	resurrection	reappearance	reawakening	rebirth restoration
	resurgence	revival		
925.	retain	continue	hold	
926.	retainer	consideration		
927.	retaliate	avenge	revenge	
928.	retaliation	revenge		
929.	retard	check	cretin	
930.	retentive	long	tenacious	
931.	rethink	afterthought		
932.	reticence	reserve		
933.	reticentrestrained			
934.	retinue	entourage		
935.	retrench	cut	trim	
936.	retrial	trial		
937.	retrieval	recovery		
938.	retriever			
939.	return	deliver	fall	give
940.	reveal	break	divulge	
941.	revenge	avenge		
942.	reverse	annul	invert	
943.	revival	resurgence		
944.	revolve	orbit		
945.	rich	ample	deep	
946.	ride	bait	cod	rag

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947. right compensate flop
948. rip pull snag rend rent
949. rape assault canola despoil
950. river stream
951. road route
952. rock stone shake
953. root ancestor bed base
954. rough approximate crude
955. row course dustup
956. rub chafe fray fret
957. rude crude raw primitive
958. rudiment alphabet
959. rue regret sorrow
960. rule convention decree
961. run bleed bunk campaign
962. rush bang
963. sacredness holiness sanctity
964. sacrifice forfeit
965. sad abominable affecting afflictive anguished
anxious arrant ashen ashy atrocious awful base
bestly beggarly
966. safe OK acceptable all right allowable appropriate
armed bank bursarycalculating canny careful cash register
cautious
967. salary base pay compensation earnings emolument
escalator clause escalator plan fee hire incomeliving wage
968. salaam bend bob bob a curtsy bob down bow bow and
scrape bow down bow the head crouch
969. sale alienation amortization assignation assignment
available barter bazaar buying cessionconferment conferral
consignment conveyance
970. same aforementioned aforesaid alike anyhow
anyway changeless
971. sanctity Christianity dedication devotion divinity
godlikeness godliness godly-mindedness goodness grace
heavenliness heavenly-mindedness holiness holy-mindedness
972. sand backbone buff burnish debris detritusdress
emery file furbish grain granulegravel grind grit
973. satan Cerberus Hades Loki LuciferMinos deuce devil-
god equivocator fabricator
974. scabbard carton case compact file
975. scare abject fear affrightalarm awe blue funk collect
consternation cow cowardice daunt dismay
976. scent ambergris ambrosia aroma aromatic balminess
balsam bouquet
977. scoff affront aspersion atrocity barrackbelittle bolt boo
brickbat chaff chow comeback comestibles
978. scream bark bawl bay bell bellow blare bleat blubber
boom bray breathe

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979. scripture
980. scruple ace apprehension atom balance bashfulness baulk
981. sea abundance acres bags barrels billow blue bore
breakers brine briny bushel chop
982. search analysis beat burrow cast about chase check comb
delve
983. secretive close close-mouthed dark discreet evasive
excretory lachrymal lachrymose lactational lacteal
meaningless mum reserved
984. secular Congregational annual biannual biennial
bimonthly biweekly bodily brother carnal carnal-minded
centenary centennial churchman
985. sedate anaesthetize aristocratic august calm collected
composed controlled conventional cool courtly decorous
demure detached dignified
986. seducer Casanova Circe Machiavellian Romeo actor beau
beguiler betrayer boyfriend caballero cavalier
charmer
987. sedulous active ardent assiduous busy constant
continuing diligent dogged elaborate enduring
energetic faithful fervent hard
988. select accepted adopted analyse appoint appointed
approved assign best better carried champion
989. selfish acquisitive autistic avaricious careerist covetous
egocentric egoistic egotistic egotistical grasping
greedy grudging illiberal
990. sell advertise alien alienate amortize argue into
assign assure ballyhoo bark barter bequeath betray
991. sense IQ absorb admissibility affect affection air
anticipate appreciate appreciation appreciativeness
apprehend apprehension
992. sensitive
993. sexed amorous carnal erogenous erotic fleshly heterosexual
libidinal nuptial oversexed potent procreative sensual sex
sexual
994. sham act acting adulterated affect affectation affected
affectedness airs alibi ape apocryphal apology
995. shit alcohol analgesic anodyne ass hole bagatelle
baloney
996. show Passion play accompany accord acting advertise
affect affectation affectedness afford afford proof of air
airiness airs
997. shut ban bang bar barricade batten batten down blank
blind blind-alley block out bolt button
998. shy about the bush afraid agnostic apprehensive arrested
averse avert avoid backhanded backward balance
999. sick abnormal affected afflicted ailing airsick amiss
annoyed appalled bad bent bizarre bored

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1000. sight aim amazement angle angle of vision assumption
astonishment atrocity attitude awe-inspiring baboon bag barrel
1001. sign abandon abnormality accent accept accredit adumbration
advertisement affection affirm affliction
1002. silver Ge I Mammon Ra alabaster albinism
albino aluminium americium and pence antimony argent argon
arsenic
1003. simile accordance affinity agreement likeness allegory
alliance alliteration allusion analogy anaphora
antithesis aping apostrophe approach
1004. simplify abridge aid chasten clarify compress crack
curtail cut
1005. sin aberration abomination atrocity bad breach crime
criminality debt defectiveness deficiency
1006. sincere abandoned aboveboard actual afire ardent artless
authentic bluff blunt brusque
1007. sing anthem babble ballad bark bawl beam bellow betray blab
1008. sit breed brood clock convene convoke
1009. skin Scrooge ablate abrade acne bag bark barrel beat
beeline best bill
1010. sky acme aerial heights air apex apogee azure blue sky
brow canopy cap cerulean climax cloud nine
1011. slatternly
1012. slave agent apple-polisher appliance ass-licker backslapper
beast of burden bondsman brown-nose brownie
captive chattel churl concubine
1013. sleep annihilation bane be caught napping be neglectful
be negligent beauty sleep bedtime blackout bye-bye
calmness catalepsy catatonia
1014. slice allotment allowance amputate apportion axe
bisect bit bite breach break breakage budget
1015. slit abrade abyss aggravated amputate aperture
arroyo axe bark bezel bisect blemish bloody breach
1016. small Lenten Lilliputian Spartan abject abominable
abstemious airy arrant ascetic atrocious attenuate
attenuated austere authoritarian
1017. smash Waterloo abrade accident annihilate asphyxiate
atomize bang bash bat beat
1018. smash-up accident blow breakdown breaking up
breakup brunt bulldozing bulling bump calamity
cannon carom casualty cataclysm
1019. smell apprehend aroma be aromatic bouquet breath
breathe burn cast
1020. smoke aerate air air-dry ash ashes atomize bake be
pissed becloud bedaub befog begrime
1021. snake Benedict Arnold Judas adder animal beast bend
betrayed boa cockatrice conniver conspirator
constrictor contort corkscrew

..to be continued..

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1022. snap Telephoto Xerox abrupt ad-lib adaptability aerial
photograph aggressiveness alertness animation
1023. snug airtight airworthy anal autistic bashful bold brief
brusque burrow casual cheerful close close-mouthed close-
tongued
1024. sob bark bawl bellow blare blubber boohoo boom
bray breathe buzz cackle chant
1025. soft accented accepting adoring affectionate afraid
alveolar anaemic apical articulated assimilated
balmy
1026. solution clarification elucidation explanation explication
key result solving unfolding unraveling compound dissolvent
elixir emulsion extract fluid juice mix sap solvent
suspension
1027. solomon
1028. son aunt auntie brethren brother bud buddy child
cousin daughter descendant
1029. soul Muse afflatus animus ardency ardour article axiom being
biorhythm
1030. sound Christian accepted admissible advantageous
advertise all there announce announce appear
appraise appreciate approved
1031. source antecedent author authority authorship begetter
birthplace cause commencement connection dawn
dawning derivation determinant expert father fount
fountain fountainhead horse's mouth inception informant
maternity mother onset opening origin origination
originator parent paternity provenance provenience rise
rising root specialist spring start wellspring
1032. space accommodation aerospace airspace alien align
allocate allot amount ample scope amplitude aperture
1033. speak accost acquaint address admonish advert to
advertise advise affect affirm allege announce
1034. speech address alliteration allusion analogy anaphora
answer answering antithesis apostrophe articulated
articulation blast
1035. spell access add up to alchemy allure alternate
appeal argue attraction augur
1036. spend ablate absorb allot assign assimilate bestow bleed white
blow budget busy
1037. spin advance airing angle ascend back bank bob
bowling
1038. squabble altercate altercation argument beef
bicker broil caterwaul clash contention
1039. starvation Lenten Spartan absence abstemious
ascetic asphyxiation austere beggary choke choking
defectiveness deficiency deficit deprivation
1040. state Everyman affirm air allege ally announce
annunciate archbishopric archdiocese argue articulate assert

..to be continued..

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1041. staunch airtight ardent bigoted calculable close committed
compact consistent constant dedicated dependable
devoted dogmatic evangelical
1042. steal abstract acquire adopt and annex appropriate
assume bag bargain boost borrow burglary buy cabbage
1043. stingy Lenten Scotch Spartan abstemious ascetic austere
avaricious cheap cheese paring chintzy close close-fisted
costive dwarfed
1044. stone abyssal rock acorn adamant adobe agate amethyst
anklet aquamarine arch armlet ashlar asphalt bangle barrow
1045. storage admission allocation anchorage archives
armoury arsenal assignment attic bank basement bay
bin
1046. store accommodate accumulate accumulation acquiescence
afford aggregate amass archives armoury arsenal
assemble assurance assuredness
1047. stop English horn abandon abjure abort afterthought
allophone alveolar anchorage arrest articulation
aspiration assimilation awe baffle
1048. storm access agitation assail assault attack ball the jack
barbarize barrage barrel batter
1049. story Clio account action adventures alibi allegation
allegory anecdote angle annals architectonics architecture
argument article
1050. strand animal fibre artificial fibre bank beach berm cilium cirrus
coast coastline cobweb denier embankment fibre
1051. stranger alien apartheid barbarian division
ethnocentrism exclusiveness exile foreign devil foreigner
gringo immigrant
1052. strength ability amount amperage ampleness amplitude
aptitude arm asset authoritativeness authority
backbone beef bite
1053. stress accent accentuate accentuation ache aching adverse
circumstances adversity affliction aggravation ambivalence
anapaest anguish annoyance
1054. strife altercation animosity antagonism argument
bicker bickering blood feud brawl broil combat competition
conflict
1055. subject above academic speciality action actor affair agent
angle answerable to application apt architect
architectonics architecture area
1056. success accomplishment achievement affluence arrival
ascendancy attainment ballet bed of roses big name
1057. successor adherent aftermath appendage attendant
buff conclusion consequence courtier dangler dependent
descendant
1058. succumb abandon accede accept acquiesce assent blow
bow

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1059. suck apple-polisher aspirate aspiration ass-licker
backslapper beverage bib bleed booze breathe in
broach brown-nose brownie bumper
1060. suckle alimentaspirate bib booze breast-feed cherish
coddle cosset cradle cultivate
1061. suffer abide accept ache acquiesce admit agonize ail
allow anguish bear
1062. summer aestival autumnautumnal equinoctial
measure time midday sun midsummer
1063. summons alarm beck bid bidding call
1064. sun Apollo Helios Hyperion Ra Titan air-dry annum bake
bask blot brush burn
1065. supply ability accommodate accumulation acting ad interim
afford armament assets available means balance cache
capacity capital
1066. surreal phantasmagoric phantasmagorical surreal surrealist
dreamlike surreal
1067. survey abbreviation abridgement abstract analysis
appraisal appraise appreciate approximation article assay
assemblage assembly assess assessment
1068. suspectabsurd account as accused arguable assume
1069. swear abjure abuse acknowledge adjure affirm agree allege and
candle assert assert under oath asseverate assure attest aver
1070. tackle accept accoutrement apparatus appliances appointments
approach appurtenances archer armament assumeathlete attack
attempt
1071. tact ability acumen acuteness addressadeptness
adroitness agreeableness allergy amenity appreciation
appreciativeness artfulness
1072. take OD abduct abide absorb abstract accede accept
accommodate accompany acknowledge acquireact
1073. talk accent accentsaddressadvertise air analyseargot
assignment babble back-fence gossip balderdash balls
ballyhoo
1074. tall absurd affected bedizened big big-sounding
bombastic bumper colossal considerable convoluted
1075. tame abate abeyant acclimate acclimatize
accommodate accustom adapt adjust allay alleviate
amenable apathetic assuage bank the fire
1076. tangential approaching asymptotic brushing centripetal
concurrent confluent confocal contacting contingent
converging digressive divergent extraneous focal
1077. tangible actual apparent appreciable assets assets and
liabilities atoms bodily circumstances clear concrete corporeal
1078. tap Gramophone abridgeair hole appointarmhole at
hand attend audiophile auger auscultate
1079. tardily deliberately late leisurely slow slowly
1080. target atom-chipping atom-smash bombardment breeding bullet
butt by-end by-purpose

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1081. task accuse affair agency allege arraign article assignment
attemptauthority authorization blame book bother brevet
1082. taste affection affinityappetite appreciate appreciation
appreciation of differences appreciativeness apprehend
appropriateness aroma assay attribute badge
1083. tatteredbeat-upbedraggled blowzybroken-down careless
chintzycleft cloven cracked cut dilapidated dingy
dowdy down-at-heel
1084. tattle babble betray betray a confidence blab blabberblather blurt
buzz
1085. tattler betrayer blab blabberblabbermouth busybody
gossip informer newspapermanreporter rumourmongersnitch
spy squealer
1086. tatty base common dowdy down-at-heel down-at-the-heels
frayed frazzled holey mean paltry
1087. taunt accuse affront allege annoy arraign article aspersion
atrocit banter barrackbook brickbat
1088. tauten continue crank draw elongate extend lengthen
let out produce
1089. teach broaden the mind catechize civilizecoach
communicate demonstrate direct discipline drill edify
educate enlighten exercise team band battalion
bevy body both brace bracketbrigadebunch cabal cast
clique cohort
1090. team
1091. tear abrade abrasion amputate assault attack axe
bacchanal bacchanalia bacchanalian barbarize bark barrel
bat
1092. tearaway hotheaded impulsive impetuous madcap
tearaway brainish
1093. tease Artful DodgerCasanova Machiavellian actor aggravate
annoy annoyer appeal apply pressure attract badger baffle
bafflement
1094. teeming abounding abundant affluent all-sufficing
ample anticipating aplentybeset big-laden blooming
bottomless bounteous
1095. teens boxcar boxcars dozen eighty eleven fifteen fifty
fortnight forty fourscore fourscore and ten fourteen
1096. tell acknowledge acquaint admit advertise advise affect
air announce apprise approve argue articulate
1097. tempest agitation blaze blizzard blow brouhaha
burst chaos commotion convulsion cyclone disorder
disruption
1098. tempter Circe abettor actuator animator cajoler
charmer coax coaxer coquette enchanter enchantress
encourager energizer
1099. tenableOK acceptable admissible agreeable alright
arguable believable conceivable condonable credible
creditable defensible excusable

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1100. tenacity adhesiveness application assiduity
assiduousness baulkiness bigotry bullheadedness clamminess
cling clotting coagulation
1101. tend administer to aim animadvert attend attend to baby-
sit bear bed bias break bridle
1102. tense accented agitated alveolar anxious aorist
apical apprehensive articulated assimilated back bilabial
bothered brace broad
1103. tent application band bandage bandaging binder
bivouac brace camp canvas cast compress
1104. terms adjectival phrase administration agree annum antonym
appellation arrange articulation balance baptise basis
1105. terrify affright alarm appal awe freeze fright frighten
horrify paralyse petrify scare shock
1106. test IQ Olympics analysis anatomic diagnosis
armour assay assess audit
1107. testament attestation bequest codicil confirmation
devise evidence inheritance legacy monument probate proof
reflection testimonial testimony
1108. testate Santa Claus angel backer contributor contributory donor
giver patron philanthropist settler subscriber sugar daddy
1109. thank acknowledge appreciation because of blame bless credit
gratefulness gratitude
1110. thankful appreciative beholden cognizant grateful
indebted to obliged sensible
1111. theft acquisition appropriation boosting burglary caper
claiming embezzlement filch filching grab hijacking
job larceny lift
1112. thing accomplishment achievement act action activities
activity adventure affair affairs affection affinity an existence
apparatus
1113. think account as aim anticipate appreciate assess
assume believe brood
1114. thorny Herculean abstruse arduous barbed brambly
bristly brutal complex complicated controversial critical
delicate demanding difficult
1115. thrall absolutism bondage bondsman captive captivity
chattel churl concubine control debt slavery
1116. threaten abuse admonish advise afflict aggrieve alert
anticipate apprehend approach augur await
1117. throw abandon addle agitate amaze apply assume baffle bake
bamboozle be confined be sick bear
1118. throne
1119. tight Spartan abbreviated abridged afflicted
airtight anal arduous austere autocratic avaricious bent
binding boiled bombed
1120. tillage agronomics cultivation culture farming husbandry
hydroponics
1121. time accompany adjust agree always

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1122. tired apparelled arrayedattired beat beaten bedecked bone-
weary breeched bromidic bushed capped clad
1123. together calm cool stable well-adjusted well-balanced well-
organized
1124. tone accent accidental action actions activityacts adaptability
addressaffect affectation air algorithm angle
1125. tongue after-taste alveolus apex argot articulation back
bagpipe bar baste bell berate bill bitter
1126. tool apparatus appliance contraption contrivance
device engine gadget gizmo implement job machine
means mechanism utensil weapon whatchamacallit
1127. topple ataxia bulldog capsizecareen
1128. torment abuse afflict affliction aggravate aggrieve
agonize agony ail anguish annoy annoyance
annoyer
1129. tottery
1130. touch ability abut access adjoin adroitness affect alarm alight
allegory allusion
1131. tough Atlas GoliathHerculean Hercules Mafioso OK
Samson Spartan Superman Tarzan Titan abiding
abstruse ace-high
1132. tour ambit assignment beat belfry bell tower bit
booking borschtcircuit bout campaign campanile
1133. town archbishopric archdiocese bailiwick bishopric
borough burgh canton citified city civic commune
community county
1134. trace Xerox account after-image afterglow annals
aroma ascertain balance beam bit blaze blemish
1135. trade agency alien alienate alternate amortize argue
art assign bandy bargainbarter bartering
1136. traduceabuse befoul bespatter black blacken decry
defamedenigrate disparage libel malign revile slander slur
1137. transform acculturate advance alter ameliorate
amend become better boost bring to change change over
1138. transit about-face alchemy alteration assimilation
assumption astrolabe becoming bevel carriage
carrying
1139. translate English alter assign carry change communicate
consign construe convertconveydecipher decode
deliver
1140. trap allure allurement ambush archway
artifice bag bait bait the hook baited trap beguilebirdlime
blind
1141. travel advance advancement advancing ascend associate
back back up budge career change circle climb clip
1142. treacherous Machiavellian ambidextrous artful calculating
chancy chiselling collusive crafty crooked cunning
dangerous deceitful deceptive desultory

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1143. treason apostasy backsliding betrayal bolt breakaway
collaboration crossing-over deceit deceitfulness defection
degeneration desertion disloyalty
1144. treasure Mammon abundance accumulate accumulation
admire adore affluence amass anthology appreciate
aquarium assets backlog
1145. treat affect air ambrosia analyse arrange attend bandage
banquet bathe
1146. trick habit idiosyncrasy mannerism peculiarity quirk trick
1147. trip airlift allure amble antic apparition army atrocity
autism backslide barge baulk
1148. true Christian absolute acceptable accepted
accommodate accord accurate accurately active actual adapt
adjust applicable
1149. trust accept acquiescence agency arrogance aspiration
assign assignment assumption assurance
1150. try agonize aim annoy appraise approach
arbitrate aspire assay
1151. twist aberration action adulterate affinity afflict agonize
ail alloy alter alteration analysis angle
1152. type adumbration affinity alien allegory alphabetize
analyse animus aptitude archetype area
1153. ugly abominable alarming awkward bad bad-
tempered base bearish bitchy bitter blemished blotted cacophonous
cankered cantankerous
1154. unite accord accumulate add adhere affiliate agglutinate
agree ally amalgamate amass approach
1155. usual accepted accustomed arranged average banal
besetting bourgeois businesslike central characteristic
chronic common commonplace conformable
1156. vacant abandoned absent-minded available bare barren bland
blank bleached calm characterless clear deadpan
deserted devoid
1157. vague abstract aimless airy aleatory ambiguous
amorphous anarchic attenuate attenuated baggy bland
blank blear bleared
1158. valiant Samson a man audacious bold bold-spirited brave
bulldog chivalric chivalrous courageous dauntless
decorated hero demigod demigoddess
1159. validate approve authorize certify embrace
endorse ratify sanction seal support certify
confirm demonstrate document endorse establish
evidence prove verify
1160. variance discrepancy variableness division variant
variability variation disagreement divergence
1161. variant altering alternative antagonistic antipathetic
assorted at cross-purposes changing clashing
contradictory contrary

..to be continued..

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1162. variousassorted at odds at variance capricious certain
changeable changing choppycomposite contrary
contrasted contrasting departing deviating
1163. vast Cyclopean Gargantuan Herculean Homeric
abysmal ample astronomic astronomical awesome
behemoth big boundless broad bulky
1164. vegetable amphibian angiosperm annual apathetic
aubergine bean beans benumbed biennial bored
botanicbulbous
1165. vend declare dispense give hawk huckster market
monger sell
1166. venom abomination acrimony acuteness animality
animosity animus antagonism antibiotic antiseptic
atrocit bad bane barbarity
1167. verbal adjectival adverbial answering articulated
attributive authentic candid card-carrying colloquial
communicating communicational conjunctive
conversational copulative
1168. victim also-ran babe boob booby butt by word
casualty chump cinch credulous person cull derision
1169. victory accomplishment advantage command conquest
control crushing dominion fortunate outcome
overcoming prosperity prosperous issue quelling
1170. view account aim ambition analysing analysis
angle animadvert animus appraisal appraising appreciation
apprehension approach
1171. vilify abuse assail bad-mouth besmirch bespatter
blacken blackguard blaspheme blot brand
1172. visible arresting bold clear conspicuous detectable
discernible discoverable distinguishable evidentinescapable
macroscopic manifest markednoticeable observable
obtrusive obvious ocular open outstanding palpable
patent perceivable perceptible plain pointedpronounced
revealed salient seen signal striking unconcealed
unhidden unmistakable viewable visual
1173. visibly apparently appreciably assuredly
1174. vision apocalypse apparition appearance astral bad dream
banshee bluffing brainchild brown study bubble
calculated deception chimera circum vention
1175. visit admit affect afflict appear assail assisterattack attend
avenge
1176. voice OK acceptance accompaniment active active voice
adherence admiration agency agent air allophone alto
alveolar approbation
1177. wail bark bawl bay bell bellow blare bleat blubber
boohoo boom bray breathebuzz cackle
1178. wait abide administer attend await ballad singer balladeer
bard composure bide

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1179. waken activate annoy arouse awake awaken challenge
energize enrage evoke excite fan
1180. walk airing ambit amble ambulate amphitheatre andante
1181. wall arch dam arm armour armour-plate backstop
balustrade barragebarricade
1182. wand armoury badge badges baton button caduceus
1183. war Ares AthenaMars Minerva Odin altercation
argument armed attack
1184. warm Christian Christlike Titian abandoned ablaze
affable affectionate affluent afire amiable animate
annoy approaching
1185. wary Machiavellian Scotch acute agnostic arch artful astute
cagey calculating canny careful cautious
1186. wash ablution acrylic painting apply paint babble
backwash baptise bath bathe bedaub bedizen
1187. watch abide aeroplane spotter alarm clock anchor animadvert
appear assisterattend
1188. water Neptune acid adulterate air aqua atom
atomic particles attenuate baptise bastardize beaded brow
1189. wax accrue accumulate advance aluminium oxide
ambergris anoint appreciate augment auto polish
balloonbeeswax bloat bloom
1190. wave accost addressadvertise affect air amplitude
barber be poised beat beat the drum be token bicker
billow blazon forth
1191. way ability access actions activityacts addressadmission
advance advancement advancing aesthetic distance
affectation
1192. wayfarer adventurer astronaut camperclimber
comers and goers commuter cruiser excursionist explorer
fare globe-girdler globe-trotter goer hajji
1193. weak accented accessible achromatic afraid airy
alveolar amenable anaemic anthropocentric
anthropological apical articulated ashen ashy
1194. wealth Easy Street abundance affluence ample sufficiency
ampleness amplitude assessed valuation assets
avalanche bountifulness bumper crop
1195. weather ablate abrade climateclime
1196. weird absurd appointed lot astral influences astrology
awe-inspiring awesome awful awing beyondbelief bizarre blue
book of fate cadaverous cast
1197. well ably abyss acceptably adeptlyadequately adroitly
agilely all right all the way altogether amply appropriately
approvingly aptly
1198. whoever whomever whosoever
1199. wide aberrant abroad abstract accented a drift
advanced afield all abroad all off all wrong alveolar
a miss ample apical

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1200. wild Death Valley Gothic Neanderthal Sahara abandoned
absurd accident-prone added adventurous agitated agrarian
amok anarchic angry
1201. wind about ship aerate air air out air-condition air-cool
allure antelope arch arrow artificial respiration
aspiration asthmatic wheezeback and fill
1202. window bay bay window bow window casement casement
window chaff fan window fanlight grille lancet window
lantern lattice light louvre window
1203. wing act drop addition administration aeroplane
affiliate age group air arm air corps air force air
service airlift annex appendage arm
1204. wish address aim aim at ambition animus appetite
application apply ardour ask ask for aspiration aspire bear
1205. woman Frau adult better half common-law wife concubine
dame distaff distaff side dowager fair sex female sex
femininity femme gentlewoman
1206. wonder admiration agonize over amaze amazement
astonishing thing astonishment awe be amazed be astonished
be at sea be innocent of be uncertain beat about
bewilderment
1207. womb bag balls basket beard breasts cervix clitoris cod cods
family jewels female organs genitalia genitals gonads
1208. wood Yule clog acacia afforestation alder arboretum ash
back log balsa balsam banyan bass basswood beam beech
1209. work Passion play absolute music accomplish
accomplished fact accomplishment achieve achievement
acidify act acting action activism activities activity
1210. world America Earth Europe Everyman Ge John Doe
Levant Middle East Near East New World Occident
Orient abundance acres
1211. worry ado afflict aggravate aggravation aggrieve
agitate ail anguish annoy annoyance anxiety bad news
badger bait
1212. worship Eros Platonic love accord respect to admiration
admire adoration adore affection agape apotheosis
appreciate appreciation approbation approval
1213. wrath a transient madness acerbity acrimony anger
angriness asperity avarice deadly sin envy fury
gluttony grapes of wrath greed heat
1214. wretch beachcomber beggar beggarly fellow blackguard
blighter bum bummer caitiff cur derelict devil dog
drifter drunkard
1215. write code compose indite pen publish save spell
1216. wrong amiss awry damage fallaciously faulty haywire
ill-timed improper incorrect incorrectly legal injury
unseasonable untimely wrongfulness wrongly
1217. yammer grizzle howl whine wrawl yamp yowl

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1218. year class twelvemonth
1219. yell call cry holler hollo outcry scream shout shout out
squall vociferation
1220. yellow chicken chickenheart chicken-livered icteric
jaundiced lily-livered scandalmongering sensationalistic
white-livered xanthous yellow-bellied yellowed yellowish
yellowness yellowy
1221. yesterday mean yesteryear
1222. yield afford bear bunckle under cede concede ease
up fruit generate give pay off proceeds production relent
render return soften succumb take takings
1223. yore past yesterday yesteryear.
1224. you
1225. yowl bark bawl bay bell bellow blare bleat bray call
caterwaul cheer cry
1226. zeal abandon acquiescence agitation agreeableness
alacrityall-overs amenability angst
1227. zealot Christian accepter addict adherent aficionado
alien believer bigot buff bug case character
churchgoer churchman
1228. point abode accent accentuate ace acerbity acidity acme
acridity acrimony addressadvantage aim
1229. birth DNA abortion affiliation allele ancestry
animation aristocracy babyhood bear bearingbeginning
beginnings
1230. king ace banker baron bishop bower businessman cards castle
1231. believeaccept accredit admit allow reservation buy
conceive conclude
1232. eyes
1233. sign OK abandon abnormality accent accept accredit
adumbration advertisement affection affirm affliction
1234. day aeon age annum antedate century
1235. hereafter afterlife approaching comingdesireddestined
destinydetermined emergent eventual extrapolated fatal
1236. prove affirm afford of argue ascertain assay attend attest
audit authenticate back back up balance
1237. existence
1238. signs abnormality affection affliction ailmentallergy
atrophy blight cardiovascular diseasecomplaint complication
condition course defect
1239. kings
1240. obligate accept obligation bind commit compel
constrain contract engage force
1241. woman Frau adult common-law wife concubine dame
distaff dowager fair sexfemale sex femininity femme
gentlewoman
1242. cover account for accumulate act admit agglutinate alibi
altar carpet alternate amass

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1243. vein affectation artery attitudeband bar bed bespangle
blotch body-build bonanza brand capillary carotid cast
1244. importance account ascendancy authority charisma
charm clout concern consequence conspicuousness
control credit distinction dominance domination
1245. knowledge IQ account acquaintance adeptness
advice announcement appreciation apprehension awareness
briefing bulletin calibre capacity
1246. responsibility accountability action aetiology agency amenability
application arrogation ascription assignation assignment
attachment attribution auspices
1247. responsible accountable administrative amenable answerable
authoritative chargeable chief creditable culpable
decision-making
1248. answer ESP Gloria accomplishment accord acknowledge
acknowledgement action action and reaction addressadvance
advantage advocate affect affirmation
1249. child adolescent angel artefactbabe baby bairn boy
brainchild brat brood bud cherub chick
1250. mother SOB agent ancestors ancestral apprentice
architect artificer artist aunt auntie author baby baby-
sit
1251. father Establishment VIP agent ancestor ancestors
apprentice architect artificer artist aunt auntie
author baron bear
1252. brotherGreek abbot acquaintance adjunctadvocate affiliate
ally alter ego analogue ascetic associate aunt
auntie backer
1253. siblings
1254. sister Greek RN abbess affiliate ally analogue
associate aunt auntie brethren brotherbud
1255. youngest adolescent baby fledgling hopeful infant
junior juvenile minor pubescent sapling slip sprig
stripling teenager
1256. young adolescent babyhood babyish boyhood
boyish brood callow childish childlike children
clutch crude dewy ever-new
1257. charateristics
1258. feature Technicolour act adjunctadvertise affection air
angle appurtenance aroma article merchandise aspect
1259. dressing ablation abrasion abrasive ammonia
apparelapplication array ass-reaming attire attrition band
bandage bandaging
1260. islam Moslemism Mohammedanism Islamism
1261. advantage accommodation account advance
advancement advantageously advantageousness advisability
allowance amenity answer appliance applicability
appropriateness appurtenance

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1262. fasting Lenten abstinence anchoritic monasticism anchoritism
asceticism austerity dog-hungry empty famished
famishing flagellation
1263. pray adjure appeal ask beg beseech brace
1264. health condition constitution euphoria fettle fitness form
healthfulness healthiness naturalism naturalness normalcy
normality order propriety
1265. obligation accountability affair agreement allegiance
appreciation appreciativeness aptitude aptnessarreange
1266. story clio account action adventures alibi allegation
allegory anecdote angle annals architectonics architecture
argument article
1267. hudud
1268. obey abide by accede accept acquiesce act agree
assent bow
1269. friday
1270. law a priori truth act appointment assize axiom ban bill
bobby brevet
1271. steal abstract acquire adopt and annex appropriate
assume bag bargain boost borrow burglary buy cabbage
1272. female distaff feminine girlish her kittenish ladylike
little-girlish maidenly matronly petticoat she
womanish womanlike womanly
1273. woman Frau adult common-law wife concubine dame
distaff distaff side dowager femininity femme gentlewoman
1274. illicit actionable anarchic anarchistic anomic back-door
banned barred black-market bootleg chargeable clandestine
contraband contrary to law
1275. marry accumulate affiliate agglutinate ally amalgamate
amass articulate assemble associate band
1276. greatness accomplishment ampleness amplitude area
ascendancy authority bigheartedness bigness body
breadth broadness brooding bulk calibre
1277. allah
1278. creation aboriginal abundant all almighty alpha
anatomy antenatal architectonics
1279. mountains
1280. sea abundance acres bags barrels big drink billow blue
blue water bore breakers brine briny bushel chop
1281. kuran
1282. ability address adeptness adequacy adroitness aptitude
aptness artfulness artistry bravura brilliance bump
calibre capability capableness
1283. sentence acquittal act on action adage address adjudge
adjudicate affirmation allegation analects anathematize
anathematizing answer
1284. creed affirmation allegation announcement annunciation
assertion asseveration avowal belief catechism church
communion conclusion

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1285. pray adjure appeal ask beg beseech brace clamour for
conjure
1286. fasting Lenten abstinence anchoritism asceticism austerity
dog-hungry empty famished famishing flagellation hair
shirt
1287. obligatory absolute binding compulsory conclusive
decisive demanded dictated entailed essential
exigentfinal hard-and-fast imperative imperious
1288. hajj
1289. solat
1290. circumcision adoption agape aspersion auricular
confession celebration confession confirmation conversion
incenseinvocation
1291. difference aberration abnormality about-face
accommodation account achievement adaptation
adjustment aggregate alienation alteration amelioration
amount
1292. islam Moslemism Mohammedanism Islamism
1293. christian accepted accepter adoring affectionate
approved authentic authoritative becoming befitting
believer believing benign benignant
1294. jew judaic judaical hebraism hebrewisraelite
judahite judaism judean levite pharisee rabbi
sadducee semite yid
1295. relation affiliation affinityalliance association
consanguinity kin kindred kinshipkinsperson liaison
propinquity relationship relativesibling similarity
1296. similarity accord addition adjunctaffairs affiliation
affinityaliveness alliance analogousness analogy
approximation assemblage association balance
1297. descentabasement advance affiliation array articulation
ascending ascent backing
1298. prophets
1299. history account adventures annals antiquity
autobiography background biography bygone days catalogue
chronicle chronicles
1300. war Ares AthenaMars Minerva Odin all-out war
altercation appeal to arm argument arms attack
1301. marriage addition affiliation agglomeration agglutination
aggregation agreement alliance amalgamation articulation
assimilation association bans blend blending
1302. story adventure allegory anecdote apologue
article autobiography beat biography book chronicle
cliffhanger comedy conte description drama epic fable
fairy tale fantasyfeature fiction folktale gag history
information legend memoir myth narration narrative
nonfiction novel parablepotboiler recital record relation
report romance saga scoop sequel serial spiel tale
tragedyversion yarn

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1303. male Clio account action adventures alibi allegation
allegory anecdote angle annals architectonics architecture
argument article
1304. sleeping abeyant apathetic asleep breathless
carrion cataleptic catatonic comatose covert croaked
1305. cave air-raidshelter bend bomb shelter bombproof bow bowl
break breakdown breakup buckle bunker burrow
1306. years hundred archbishopric archdiocese bailiwick
bicentenary bicentennial bishopric borough canton
centenarian centenary centennial centimetre centipede
centred
1307. hundred
1308. year annum calendar month centuryday decade fortnight
hour
1309. situation abode allocation ambience ambit angle
appointment area assignment bargainbasis bearings berth
1310. heaven Eden Pandemonium Zion acme aerial heights air apex
apogee azure beatification beatitude bewitchment
1311. hell Babel Hades Pandemonium abyss affliction agony
anguish bedlambowels cacophony
1312. holly aestival chartreuse ebony emerald glaucous
grassy green ivy leafy leaved oak olive shrub springlike
1313. self I alter breath collective unconscious conscience
ego
1314. claim affirmation allegation application assertion
birthright call case counter claim declaration demand
dibs due entreaty interestlien part petition plea
postulation prerogative pretense pretension privilege
profession protestation reclamation request requirement
requisition suit title ultimatum
1315. action affray altercation argument battle battle royal bout
brawl broil brush clash combatconflict confrontation
contention contest controversy difficulty disagreement
dispute dissension dogfight duel engagement exchange
feud fisticuffs fracas fray fuss hostility joust
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struggle tiff to-do tussle war wrangling
1316. way ability access action actions activityacts addressadmission
advance advancement advancing affectation
1317. Allah
1318. preach addressadmonish advise advocate catechize
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1319. obligation accountability affair agreement allegiance
appreciation appreciativeness aptitude aptnessarreange
1320. calamity accident adversity affliction bane blow
bugbear burden casualty cataclysm catastrophe
collapse collision contretemps crack-up

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1321. earth
1322. sign abandon abnormality accent accept accredit
adumbration advertisement affection affirm accepting
accommodation accordant acquiescent acquiescing
affirmative agreeable agreed agreeing amenable
amusement appease
1323. content
1324. friday

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APPENDIX C

Query Words

No.	Malay	English	Arabic
1	Kelahiran nabi isa	The birth of prophet Isa	ميلاد عيسى عليه السلام
2	Raja-raja beriman	The faithful kings	الملوك المؤمنون
3	Mata	Eye	العين
4	Tanda-tanda hari kiamat	The signs of day of judgement	علامات الساعة الكبرى
5	Membuktikan kewujudan alam	Prove the existence of universe	إثبات وجود الكون
6	Wajibnya wanita menutup aurat	Obligation of women to cover the awrah	وجوب الحجاب للنساء المسلمة
7	Kepentingan ilmu	The benefit of knowledge	أهمية العلم
8	Tanggungjawab sebagai anak dan ibubapa	The responsibility of parents and children	مسؤولية الأبناء والآباء
9	Tanggungjawab sebagai abang, kakak, dan adik.	The responsibility of brothers and sisters	مسؤولية الإخوة والأخوات
10	Ciri-ciri berpakaian Islam	The believers' garment	ملابس المؤمنين
11	Kelebihan berpuasa sembahyang, kesihatan dan kewajipan	Benefits of fasting, prayer, health, and compliance with obligations	فوائد الصيام، والصلاة، والصحة، والالتزام بالواجبات
12	Cerita nabi-nabi	The prophets' story	قصص الأنبياء
13	Hudud	Hudud law	الحدود الشرعية
14	Kewajipan sembahyang jumaat	The obligation of Friday Prayer	فرضية صلاة الجمعة
15	Kewujudan makhluk, tempat dan planet	The existence of creatures, places and planets	وجود المخلوقات، والأرض، والكواكب
16	Hukum mencuri	The thief's punishment	عقوبة للسارق

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No.	Malay	English	Arabic
17	Perempuan-perempuan yang haram dikahwini	Women to whom marriage is prohibited	المحرمات من النساء في الزواج
18	Kebesaran Allah, kejadian gunung-ganang, dan laut	The Greatness of Allah, creation of mountains and sea	عظمة الله، خلق الجبال والبحار
19	Mukjizat al-Quran	The miracles of Quran	إعجاز القرآن الكريم
20	Kalimah syahadah	Confession of faith	كلمة التوحيد
21	Sembahyang	Prayer	الصلاة
22	Puasa	Fasting	الصيام
23	Zakat	Charity	الزكاة
24	Haji	Hajj	الحج
25	Sembahyang-semahyang sunat	Additional(nawafil) prayers	الصلوات النافلة
26	Perbezaan di antara Islam, Kristian dan Yahudi	The differences between Muslims, Christians and Jews	الفرق بين المسلمين والمسيحيين واليهوديين
27	Perkaitan nabi, persamaan keturunan dan ciri-ciri rasul	Relevance of the Prophet, in common descent and the characteristics of the Messenger	أهمية بالنسبة للنبي، وفي أصل مشترك وخصائص الرسول
28	Hari Kiamat	The day of resurrection	يوم القيامة
29	Sejarah peperangan	The history of war	تاريخ الحرب
30	Perkahwinan	Marriage	الزواج
31	Kisah lelaki tertidur gua beratus-ratus tahun	The people of cave (Ashabul Kahf) and their sleeping for hundred years	نومهم في أصحاب الكهف وقصة مائة سنين
32	Keadaan syurga dan neraka	The situation in Heaven and Hell	أحوال الجنة و النار

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33	Menyucikan diri	Purifying yourself	تطهير النفوس
34	Tuntutan berperang di jalan allah	Claims of fighting for the sake of Allah	وجوب الجهاد في سبيل الله
35	Tuntutan berdakwah	Claims of preaching	وجوب الدعوة إلى الله
36	Kewajiban dan malapetaka di bumi Allah menjadi petunjuk al-Quran yang membuktikan kandungannya	Duties and catastrophe on Allah's Earth translate the Quran which proved its contents	الواجبات وكارثة على الأرض ترجم القرآن الكريم الذي ثبت محتوياته

APPENDIX D

Questionnaire

User Feedback

Position: Lecturer() Student()

Sex: Male() Female()

Religion: Muslim() Non-Muslim()

Please tick (√) only **ONE** method as the best method of the following methods based on the system that you tested?

Method	tick (√) one
Semantic query	
Stemmed query	
Stemmed semantic query	
Semantic translated query	
Stemmed translated query	
Stemmed semantic translated query	
User right thought query	
Query translation	
Multilingual query translation	
Visualizing Semantic query	
Visualizing Stemming query	
Visualizing Stemming semantic query	
Visualizing Semantic translated query	
Visualizing Stemmed translated query	
Visualizing Stemmed semantic translated query	
Visualizing User right thought query	
Visualizing Query translation	
Visualizing Multilingual query translation	

What is your suggestion to enhance your understanding electronically on The Holy al-Qur'an?

END

APPENDIX E

Benchmark

The Manual Search Results Base on Each Query

Query No.	Total	Relevant Documents (TRE)
1	19	q003045 q003046 q003047 q019019 q019023 q019024 q019025 q019026 q019027 q019028 q019029 q019030 q019031 q019032 q019033 q019034 q021091 q023050 q066012
2	74	q002102 q002247 q002248 q002249 q002250 q002251 q004163 q006084 q018083 q018084 q018085 q018086 q018087 q018088 q018089 q018090 q018091 q018092 q018093 q018094 q018095 q018096 q018097 q018098 q018099 q018100 q018101 q021078 q021079 q021081 q021082 q027015 q027016 q027017 q027018 q027019 q027020 q027021 q027022 q027023 q027024 q027025 q027026 q027027 q027028 q027030 q027031 q027032 q027033 q027034 q027035 q027036 q027037 q027038 q027039 q027040 q027041 q027042 q027043 q027044 q034012 q034013 q034014 q038030 q038031 q038032 q038033 q038034 q038035 q038036 q038037 q038038 q038039 q038040
3	26	q003013 q005045 q005083 q007116 q007179 q007195 q008044 q009092 q011031 q012084 q015088 q018028 q018101 q020131 q028009 q032017 q033019 q036066 q037048 q040019 q043071 q052020 q054037 q056022 q090008 q102007
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5	43	q002022 q002029 q002164 q006001 q007054 q010003 q010005 q010006 q017044 q021030 q024041 q025059 q030022 q030025 q031010 q031025 q032004 q035001 q035041 q036081 q039005 q039038 q039046 q041009 q041010 q041011 q041012 q041037 q042011 q042049 q043009 q044038 q045022 q046033 q050006 q050007 q050038 q057004 q059024 q064003 q065012 q067003 q071015
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7	13	q002269 q003018 q003081 q012068 q016027 q018065 q027040 q030056 q034006 q047016 q058011 q096004 q096005
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11	39	q002043 q002083 q002110 q002183 q002184 q002185 q002187 q002196 q002238 q002239 q004092 q004101 q004102 q004103 q005006 q005089 q005095 q007170 q010087 q011114 q014031 q015098 q015099 q017078 q020014 q020132 q022078 q024056 q029045 q030031 q031017 q033033 q035018 q058004 q058013 q062009 q073020 q098005 q108002
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		q012008	q012009	q012010	q012011	q012012	q012013
		q012014	q012015	q012016	q012019	q012020	q012021
		q012022	q012023	q012024	q012025	q012026	q012027
		q012028	q012029	q012030	q012031	q012032	q012033
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		q021062	q021063	q021064	q021065	q021066	q021067
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		q026170	q026171	q026172	q026173	q026174	q026175
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		q029021	q029022	q029023	q029024	q029025	q029026
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		q037112	q037113	q037114	q037115	q037116	q037117
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		q046026	q046027	q046028	q051024	q051025	q051026
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		q051033	q051034	q051035	q051036	q051037	q051038
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12	1252	q051045 q051046 q054009 q054010 q054011 q054012 q054013 q054014 q054015 q054016 q054017 q054018 q054019 q054020 q054021 q054022 q054023 q054024 q054025 q054026 q054027 q054028 q054029 q054030 q054031 q054032 q054033 q054034 q054035 q054036 q054037 q054038 q054039 q054040 q054041 q054042 q071001 q071002 q071003 q071004 q071005 q071006 q071007 q071008 q071009 q071010 q071011 q071012 q071013 q071014 q071015 q071016 q071017 q071018 q071019 q071020 q071021 q071022 q071023 q071024 q071025 q071026 q071027 q071028 q079015 q079016 q079017 q079018 q079019 q079020 q079021 q079022 q079023 q079024 q079025 q079026
13	8	q002187 q002229 q002230 q004013 q009097 q009112 q058004 q065001
14	3	q062009 q062010 q062011
15	51	q001002 q002131 q002251 q003097 q005028 q006045 q006071 q006162 q007054 q007061 q007067 q007104 q007121 q010006 q010010 q010037 q012104 q016049 q022018 q026016 q026047 q026077 q026098 q026109 q026127 q026145 q026164 q026180 q026192 q027008 q027044 q028030 q029006 q032002 q037087 q037182 q038087 q039075 q040064 q040065 q040066 q041009 q042029 q043046 q045022 q045036 q056080 q059016 q069043 q081027 q083006
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25	1	q017079
26	395	q002010 q002042 q002051 q002053 q002054 q002061 q002065 q002075 q002078 q002079 q002080 q002083 q002084 q002085 q002087 q002088 q002089 q002090 q002091 q002092 q002093 q002094 q002095 q002096 q002100 q002101 q002102 q002104 q002105 q002111 q002112 q002113 q002116 q002120 q002132 q002140 q002144 q002145 q002146 q002174 q002176 q002208 q002211 q002213 q002246 q002247 q003003 q003004 q003007 q003019 q003020 q003023 q003024 q003051 q003060 q003061 q003062 q003064 q003065 q003066 q003067 q003075 q003078 q003079 q003080 q003084 q003085 q003093 q003094 q003181 q003183 q003184 q003187 q004046 q004047 q004051 q004054 q004080 q004113 q004125 q004136 q004140 q004154 q004155 q004156 q004157 q004158 q004159 q004160 q004161 q004171 q004172 q005003 q005013 q005014 q005015 q005017 q005018 q005019 q005032 q005041 q005042 q005043 q005044 q005045 q005046 q005047 q005048 q005049 q005050 q005051 q005057 q005060 q005061 q005062 q005063 q005064 q005068 q005070 q005072 q005073 q005074 q005075 q005076 q005077 q005078 q005079 q005080 q005081 q005082 q005110 q005116

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26	395	q005117 q006005 q006070 q006071 q006072 q006073 q006089 q006090 q006091 q006092 q006093 q006115 q006125 q006146 q006148 q006154 q006155 q006156 q006161 q006162 q006163 q006164 q006165 q007002 q007003 q007029 q007033 q007052 q007138 q007148 q007152 q007163 q007169 q007196 q008035 q008036 q009029 q009030 q009031 q009033 q010068 q010069 q010076 q010078 q010084 q010093 q010104 q010106 q010108 q011001 q011002 q011017 q011109 q011110 q012001 q012002 q012003 q013001 q013036 q013037 q013043 q014001 q015090 q015091 q016036 q016064 q016089 q016090 q016118 q016124 q017002 q017003 q017004 q017022 q017023 q017039 q017040 q018001 q018021 q018027 q019030 q020014 q020088 q020091 q021003 q021005 q021010 q021025 q021048 q021049 q021050 q021092 q021108 q022067 q022078 q023023 q023032 q023048 q023049 q023052 q025008 q025009 q025011 q025035 q026108 q026110 q026126 q026131 q026132 q026144 q026150 q026153 q027045 q027091 q028002 q028043 q028048 q028052 q028053 q028054 q028086 q029016 q029017 q029018 q029036 q029045 q029046 q029047 q029051 q030030 q030031 q030032 q031006 q031022 q032002 q032003 q032023 q033033 q033071 q034043 q034045 q035031 q036002 q036003 q036004 q036005 q036014 q036015 q036018 q037014 q037015 q037016 q037017 q037036 q038004 q038005 q038006 q038007 q038008 q038029 q038065 q038066 q038067 q038068 q039001 q039002 q039003 q039011 q039012 q039013 q039014 q039022 q039023 q039027 q039028 q039041 q039054 q039055 q040002 q040053 q040054 q040065 q040066 q041002 q041003 q041004 q041006 q041033 q041044 q041045 q041053 q041054 q042007 q042013 q042015 q042017 q042024 q042052 q043002 q043003 q043004 q043015 q043016 q043017 q043018 q043019 q043020 q043021 q043022 q043023 q043024 q043030 q043031 q043043 q043044 q043045 q043049 q043057 q043058 q043059 q043063 q043064 q043065 q043081 q044002 q044003 q044014 q045002 q045016 q046002 q046007 q046008 q046011 q046012 q048028 q049014 q056075 q056076 q056077 q056078 q056079 q056080 q057016 q057027 q059004 q061005 q061006 q061007 q061008 q061009 q061011 q061014 q062002 q062003 q062005 q062006 q072020 q072023 q076023 q098001 q098002 q098003 q098005
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28	550	q002048 q002113 q002148 q002174 q003025 q003055 q003161 q003180 q003185 q004087 q004109 q004141 q004159 q005014 q005036 q006012 q006015 q006073 q006128 q006158 q007032 q007051 q007167 q007172 q007187 q010028 q010045 q010060 q010093 q011003 q011060 q011098 q011099 q011103 q011104 q011105 q011106 q011107 q011108 q012107 q013002 q014041 q014042 q014043 q014044 q014045 q014048 q014049 q014050 q014051 q015035 q015036 q015037 q015038 q015085 q016001 q016025 q016027 q016028 q016029 q016077 q016092 q016111 q016124 q017013 q017014 q017058 q017062 q017071 q017072 q017097 q017098 q018008 q018021 q018047 q018048 q018049 q018098 q018099 q018100 q018101 q018105 q019037 q019038 q019039 q019040 q019095 q020015 q020100 q020101 q020102 q020103 q020104 q020105 q020106 q020107 q020108 q020109 q020110 q020111 q020112 q020124 q020125 q020126 q020127 q021001 q021039 q021040 q021047 q021049 q021096 q021097 q021098 q021099 q021100 q021101 q021102 q021103 q021104 q022001 q022002 q022007 q022009 q022017 q022055 q022056 q022069 q023016 q023101 q023102 q023103 q023104

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		q025018	q025021	q025022	q025023	q025024	q025025
		q025026	q025027	q025028	q025029	q025030	q026082
		q026090	q026091	q026092	q026093	q027082	q027083
		q027084	q027085	q027086	q027087	q027088	q027089
		q027090	q028041	q028042	q028061	q028062	q028063
		q028064	q029013	q029025	q030012	q030013	q030014
		q030015	q030016	q030025	q030043	q030044	q030055
		q030056	q030057	q031034	q032025	q033021	q033063
		q034003	q034009	q034029	q034030	q034040	q034051
		q034052	q035014	q036048	q036049	q036050	q036051
		q036052	q036053	q036054	q039015	q039024	q039031
		q039047	q039060	q039067	q039068	q039069	q039070
		q039071	q039072	q039073	q039074	q039075	q040010
		q040046	q040051	q041040	q041047	q042017	q042018
		q042045	q042046	q042047	q043038	q043061	q043065
		q043066	q043067	q043085	q044040	q044041	q045017
		q045026	q045032	q046005	q050020	q050021	q050022
		q050023	q050024	q050025	q050026	q050027	q050028
		q050029	q050030	q050031	q050032	q050033	q050034
		q050035	q050036	q050037	q050038	q050039	q050040
		q050041	q050042	q050043	q050044	q051012	q051013
		q052007	q052008	q052009	q052010	q052011	q052012
		q052013	q052014	q052015	q052016	q052044	q052045
		q052046	q052047	q053057	q053058	q054001	q054006
		q054007	q054008	q054046	q054047	q054048	q055037
		q055038	q055039	q055040	q055041	q055042	q055043
		q055044	q056001	q056002	q056003	q056004	q056005
		q056006	q056007	q058007	q060003	q064009	q064010
		q067026	q067027	q068039	q069001	q069002	q069003
		q069004	q069013	q069014	q069015	q069016	q069017
		q069018	q070008	q070009	q070010	q070011	q070012
		q070013	q070014	q070015	q070016	q070017	q070018
		q070043	q070044	q073017	q073018	q074008	q074009
		q074010	q075001	q075002	q075003	q075004	q075005
		q075006	q075007	q075008	q075009	q075010	q075011
		q075012	q075013	q075014	q075015	q075022	q075023
		q075024	q075025	q077008	q077009	q077010	q077011
		q077012	q077013	q077014	q077015	q077029	q077030
		q077031	q077032	q077033	q077034	q077035	q077036
		q077037	q077038	q077039	q077040	q077041	q077042
		q077043	q077044	q077045	q077046	q077047	q077048
		q077049	q077050	q078017	q078018	q078019	q078020
		q078038	q078039	q078040	q079006	q079007	q079008
		q079009	q079010	q079011	q079012	q079013	q079014
		q079034	q079035	q079036	q079037	q079038	q079039
		q079040	q079041	q079042	q079043	q079044	q079045
		q079046	q080033	q080034	q080035	q080036	q080037
		q080038	q080039	q080040	q080041	q080042	q081001
		q081002	q081003	q081004	q081005	q081006	q081007

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28	550	q081008 q081009 q081010 q081011 q081012 q081013 q081014 q082001 q082002 q082003 q082004 q082005 q082006 q082007 q082008 q082009 q082010 q082011 q082012 q082013 q082014 q082015 q082016 q082017 q082018 q082019 q083004 q083005 q083006 q083007 q083008 q083009 q083010 q083011 q083012 q083013 q083014 q083015 q083016 q083017 q083018 q083019 q083020 q083021 q083022 q083023 q083024 q083025 q083026 q083027 q083028 q084001 q084002 q084003 q084004 q084005 q084006 q084007 q084008 q084009 q084010 q084011 q084012 q084013 q084014 q084015 q086009 q086010 q088001 q088002 q088003 q088004 q088005 q088006 q088007 q088008 q088009 q088010 q088011 q088012 q088013 q088014 q088015 q088016 q099001 q099002 q099003 q099004 q099005 q099006 q099007 q099008 q100009 q100010 q100011 q101001 q101002 q101003 q101004 q101005 q101006 q101007 q101008 q101009 q101010 q101011
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30	90	q002187 q002221 q002222 q002223 q002224 q002225 q002226 q002227 q002228 q002229 q002230 q002231 q002232 q002233 q002234 q002235 q002236 q002237 q002240 q002241 q004001 q004002 q004003 q004004 q004005 q004006 q004019 q004020 q004021 q004022 q004023 q004024 q004025 q004026 q004034 q004035 q004127 q004128 q004129 q004130 q005005 q007189 q013038 q016072 q024002 q024003 q024004 q024005 q024006 q024007 q024008 q024009 q024010 q024026 q024032 q024033 q025074 q026166 q030021 q033004 q033028 q033037 q033049 q033050 q033051 q033052 q033059 q035011 q036036 q039006 q042011 q051049 q058001 q058002 q058003 q058004 q060010 q060011 q065001 q065002 q065003 q065004 q065005 q065006 q065007 q066001 q066002 q066003 q066004 q066005

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..to be continued..

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33	8	q002129 q062002	q002151 q087014	q004043	q005006	q009103	q035018
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35	36	q003023 q010104 q012108 q023073 q040042 q061007	q003104 q010105 q013036 q026213 q040065 q071005	q006041 q010106 q016125 q028087 q041033 q071006	q006071 q010107 q017110 q033046 q042015 q071007	q007029 q010108 q018014 q040014 q046031 q071008	q008024 q010109 q022067 q040041 q057008 q071009
36	10	q004079 q016034	q008051 q030036	q008052 q045014	q008053 q045015	q008054	q016033

APPENDIX F

Research Publications

Journal (s)

Yunus, M. A., Zainuddin, R., & Abdullah, N. *Semantic Method for Query Translation*. The International Arab Journal of Information Technology, Vol.10, No. 3, pp. 254-260, May 2013.

Conference Paper(s)

Yunus, M. A., Zainuddin, R., & Abdullah, N. (2011). *A Framework of Hybrid Semantic Speech Query via Stemmer for Quran Documents Results*. Informatics Engineering and Information Science. In A. Abd Manaf, S. Sahibuddin, R. Ahmad, S. Mohd Daud & E. El-Qawasmeh (Eds.), (Vol. 254, pp. 91-101): Springer Berlin Heidelberg.

Yunus, M. A., Zainuddin, R., & Abdullah, N. (2010a, 5-7 Dec. 2010). *Semantic query for Quran documents results*. Paper presented at the Open Systems (ICOS), 2010 IEEE Conference on.

Yunus, M. A., Zainuddin, R., & Abdullah, N. (2010b, 5-7 Dec. 2010). *Semantic query with stemmer for Quran documents results*. Paper presented at the Open Systems (ICOS), 2010 IEEE Conference on.

Yunus, M. A., Zainuddin, R., & Abdullah, N. (2010c, 13-15 Dec. 2010). *Visualizing Quran documents results by stemming semantic speech query*. Paper presented at the User Science and Engineering (i-USEr), 2010 International Conference on.

Yunus, M. A., Zainuddin, R., & Abdullah, N. (2011, 25-27 April 2011). *Semantic speech query via stemmer for Quran documents results*. Paper presented at the Electronic Devices, Systems and Applications (ICEDSA), 2011 International Conference on.