Project 1

STQD6114 – Unstructured Data Analytics

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Part 1 – Task 3

INTRODUCTION

For this task, we will be exploring lyrics from different genre by analysing text in the lyrics. The chosen lyrics for the analysis are "Blue" by Yung Kai (Genre: Pop), "Rap God" by Eminem (Genre: Hip-Hop), "Lemon Tree" by Fool's Garden (Genre: Soft Rock), "For the Rest of My Life" by Maher Zain (Genre: Nasheed), and "All too Well" by Taylor Swift (Genre: Country pop). By looking at the top five terms and their visualization in each word cloud, we can find out the theme of each song.

FINDINGS

Across all five songs, the frequency tables and word clouds in the shape of a star can immediately shows each lyric's theme.

2.1 ALL TOO WELL – TAYLOR SWIFT

Term	Frequency
Remember	18
Good	17
Cause	7
Hair	6
Wind	6

Table 1 Frequency Table of All too well – Taylor Swift

Figure 1 Word Cloud of All too well – Taylor Swift

The word cloud and frequency table highlights that the most frequent word is "remember" and "good" with frequency of 18 and 17 respectively. This shows that the lyrics from Taylor Swift emphasize on having a good memory and positive reflection. Words like "prayer", "like", and "sacred" indicates that there are also hints of emotional, spiritual elements. This implies that this lyric is about reminiscing the beautiful and meaningful experiences, relationship, and moments. Overall, the theme suggests a combination of nostalgia, appreciation, and emotional storytelling.

2.2   BLUE – YUNG KAI

Term	Frequency
Love	4
Think	3
Forever	3
Fall	2
Imagine	2

Table 2 Frequency Table of Blue – Yung Kai

Figure 2 Word Cloud of Blue – Yung Kai

From the figure above, we can see that terms like "love", "think", "forever", and "moonlight" stands out from the rest of the words. These words suggest that this lyric has a theme on romance, reflection, and lasting emotion. The presence of words like "heart", "always", "fly", and "imagine" shows that the lyric also contains a dreamy, emotional, and expression tone. Overall, the lyric shows that the writer express a deep emotional journey through sentimental language.

2.3   RAP GOD - EMINEM

Term	Frequency
Rap	14
Boy	12
Lookin	11
Feel	8
God	8

Table 3 Frequency Table of Rap God - Eminem

Figure 3 Word Cloud of Rap God – Eminem

Figure 3 illustrates the word cloud from the song Rap God from Eminem. This song has a genre of Hip-Hop. The word cloud has shown that this lyric has a strong linguistic and thematic profile consistent with its genre. Dominant words like "rap", "boy", "god", "feel", and an explicit word suggest this lyric contains expressive, assertive, and provocative language. These terms reflect themes of identity, emotion, confrontation, and power. It can also be seen that this lyric has some raw, personal, and bold storytelling as this lyric contains some slang like "lookin" and "yo" together with cultural preferences like "church" and "asgard". Overall, this song has a very wide vocabulary usage, exploring social and spiritual topics with rich and emotionally narrative.

2.4   LEMON TREE – FOOL'S GARDEN

Term	Frequency
Wonder	12
Turnin	12
Dip	8
Can	7
See	7

Table 4 Frequency Table of Lemon Tree – Fool's Garden

Figure 4 Word cloud of Lemon Tree – Fool's Garden

Figure 4 illustrates the word cloud of Lemon Tree by Fool's Garden. Words with the highest frequency is "wonder" and "turnin" both with 12 frequencies together with some other words with also has a high frequency like "can" and "see" suggest that this song has introspective and observational themes, possibly indicating feelings of curiosity, routine, or change. Other noticeable words like "blue", "sky", "yesterday", and "isolation" give a hint of nature, and emotional states. Overall, this song suggests a reflective and emotionally expressive piece, likely exploring everyday experiences and personal feelings.

2.5 FOR THE REST OF MY LIFE – MAHER ZAIN

Term	Frequency
Love	10
Life	6
Rest	6
Allah	5
Heart	4

Table 5 Frequency Table of For the Rest of My Life – Maher Zain

Figure 5 Word cloud of For the Rest of My Life – Maher Zain

This last song is For the Rest of My Life from Maher Zain. This song is a nasheed and religious song. From the word cloud from figure 5, we can see that the figure is highlighting words like "love", "life", "rest", "Allah", and "heart", all with 10, 6, 6, 5, and 4 frequencies respectively. This suggests that this song centred on theme of love, life, gratitude, and faith. The tone used for this song suggests spiritual and emotional tone linked with religious and reflective content. Next, words like "forever", "bless", "feel", "truth", and "change" reinforce message of sincerity, and personal transformation. Lastly, the appearance of "honest", "open", "pray", and "stay" further point out the values of integrity, devotion, and perseverance. Overall, this song expresses deep appreciation, spiritual reflection, and a heartfelt perspective of life and faith.

CONCLUSION

When properly preprocesses, term-frequency and word-cloud techniques reveal each song's emotional and concept. It can be said that "Blue" has romantic concept, introspective longing in "Lemon Tree," religious in "For the Rest of My Life", dominant and confidence from "Rap God" and nostalgia in "All too well" Addressing stemming artifacts, pruning non-thematic tokens, and extracting multi-word phrases transforms a raw frequency dump into a nuanced, reader-friendly portrait of lyrical intent.