SONGS ANALYSIS WITH POWER BI

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OVERVIEW

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PROBLEM STATEMENT

- This project aims to conduct a comprehensive analysis of YouTube songs data using Power BI. The dataset contains key attributes such as video ID, channel title, title, description, tags, published date, view count, like count, favorite count, comment count, video duration, video definition, and caption details.
- The goal is to utilize Power BI to create insightful visualizations and reports that provide a deeper understanding of YouTube song's performance, popularity, and user engagement. The analysis aims to uncover trends, preferences, and patterns in the data to aid content creators and stakeholders in optimizing their YouTube song content.

DATASET DETAILS

- video_id: Unique identifier for each YouTube video.
- channelTitle: Title of the YouTube channel publishing the song.
- title: Title of the YouTube song video.
- description: Description provided for the YouTube song video.
- tags: Tags associated with the YouTube song video.
- publishedAt: Date and time when the YouTube song video was published.
- viewCount: Number of views received by the YouTube song video.
- likeCount: Number of likes received by the YouTube song video.
- favoriteCount: Number of times the YouTube song video has been marked as a favorite.
- commentCount: Number of comments posted on the YouTube song video.
- duration: Duration of the YouTube song video.
- definition: Video definition or quality (e.g., HD, SD).
- caption: Availability of captions for the YouTube song video.

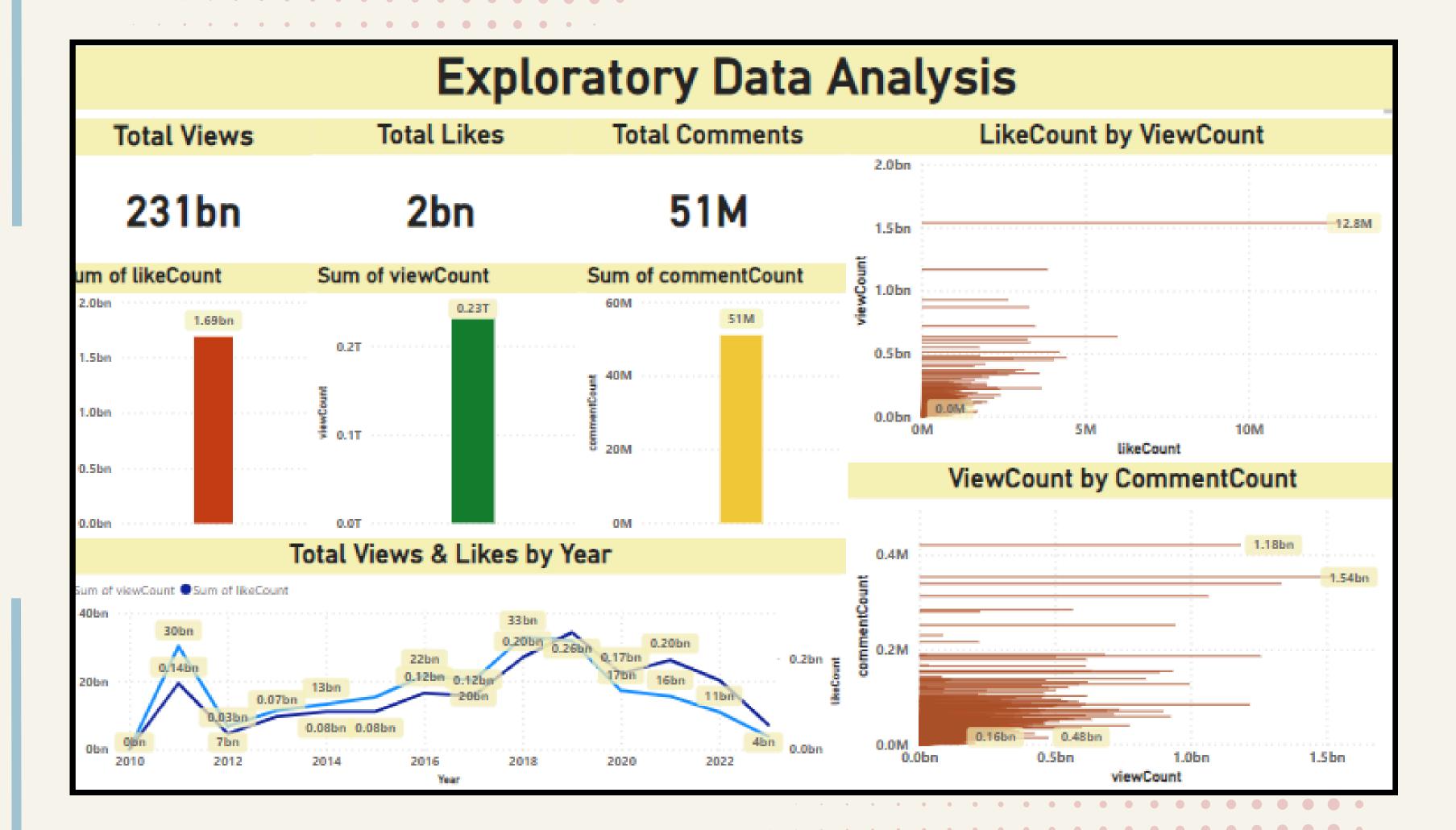
PROJECT OBJECTIVES

- Data Cleaning and Preparation:
 - Clean and preprocess the dataset, handling missing values or outliers.
 - Convert relevant columns to appropriate data types.
- **Exploratory Data Analysis (EDA):**
 - Explore patterns and distributions in view counts, like counts, and comments.
 - Identify trends in the popularity and engagement of YouTube song videos.
- Content and Channel Analysis:
 - Analyze the distribution of videos across different channels.
 - Identify popular tags and their correlation with view counts.

- Temporal Trends:
 - Explore how YouTube song video metrics vary over time.
 - Identify peak publishing times and their impact on engagement.

- User Engagement Insights:
 - Investigate relationships between likes, comments, and views.
 - Identify factors influencing user engagement with YouTube song videos.

POWER BI DASHBOARDS



Content Channel & Temporal Trends Analysis Total Songs Total Likes **Total Comments Total Views Total Duration** 66.47 19.35K 231bn 2bn 51M Songs by Channel Total Views by Tags Songs by Quality 2.76K (14.28%) Quality hd 16.58K (85.72%) T-Series Views by Month Total Comments by Year 22bn 15bn 2M 2014 2016 2018 2022

User Engagement Insights Total Likes **Total Duration Total Comments** Total Songs **Total Views** 231bn 19.35K 66.47 51M 2bn Top 5 songs by Views Top 5 songs by Likes Year 2010 Vaaste Song: Dhvani B... 1.54bm 11M 2011 Lut Gaye (Full Song) E ... 1.33bm 2012 DILBAR Lyrical | Satya.... 1.26bm 2013 SIMMBA: Aankh Mare.... 1.22bn 2014 Guru Randhawa: High... 1.18bm Vaaste Song: Lut Gaye (Full DILBAR SIMMBA: 2015 Song) Emraan Randhawa: Lyrical Aankh Marey 0.0bm 0.5bn 1.0bm 1.5bn 2.0bn Hashmi, Yuk... High Rated ... Satyameva J... Lyrical | Ran... 2016 viewCount. Top 5 songs by Duration Songs by Year 0.0034 4.1K 0.0031 0.00270.0025 0.002 0.00231.8K 28 1.6K 1.3K 1.4K 0.000 Lut Gaye (Full Vaaste Song: DILBAR Lyrical Guru 0.0K Song) Emraan Aankh Marey Randhawa: Satyameva 2010 2012 2014 2016 2018 2020 2022 Hashmi, Yukt... Bhanushali, T... Lyrical | Ranv... High Rated G... Jayate | John ...

RECOMMENDATIONS

- Recommendation 1
 - Publish videos during peak times when users are most active.
- Recommendation 2
 - Maintain a consistent publishing schedule to build a loyal audience who expects new content at specific times.
- Recommendation 3
 - Actively engage with viewers by responding to their comments.

Recommendation 4

Design visually appealing thumbnails that attract viewer's attention.

Recommendation 5

Use popular and relevant tags identified in the analysis to increase the discoverability of videos.

Recommendation 6

Partner with other YouTubers or influencers to cross-promote each other's content.

CONCLUSION

This project helped me with hands-on experience in leveraging Power BI for meaningful analysis in the dynamic domain of YouTube songs, contributing insights to optimize content strategy and engagement.

THANKYOU

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