

# **Presentation on Song Analysis using Power BI**

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## Background

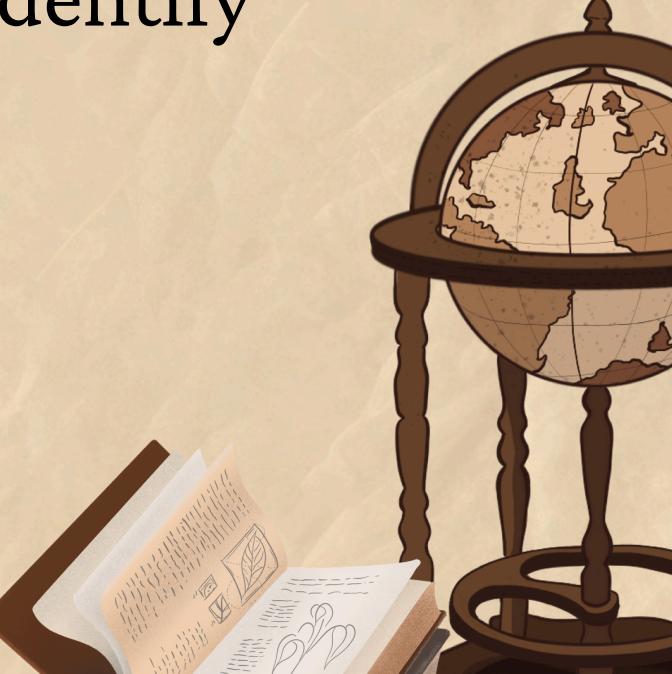
This internship project aims to conduct a comprehensive analysis of YouTube songs data using Power BI. The dataset contains key attributes such as video ID, channel title, title, description, tags, publisheddate, view count, like count, favorite count, commentcount, video duration, video definition, and caption details. The goal is to utilize Power BI to create insightful visualizations and reports that provide a deeper understanding of YouTube songs' 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.





# Project Goals

- 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:

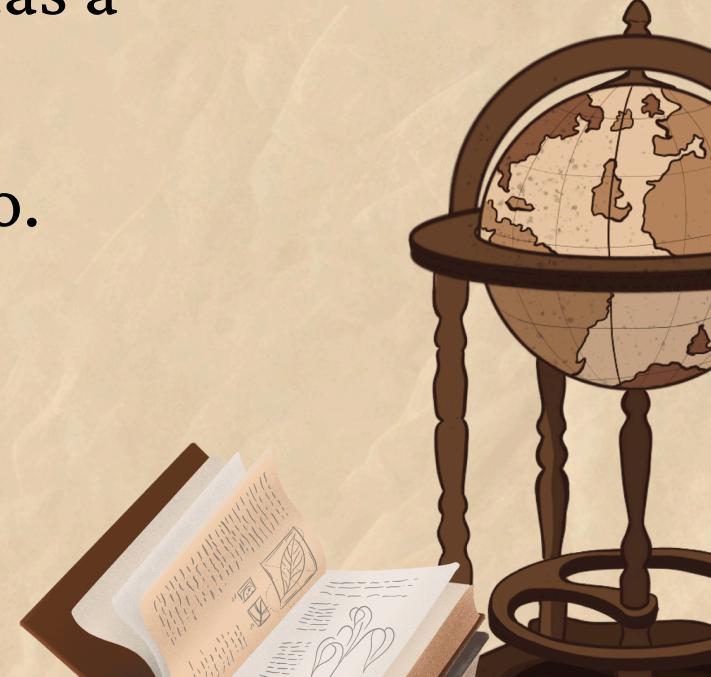
Investigate relationships between likes, comments, and views. Identify factors influencing user engagement with YouTube song videos.





# DATA DESCRIPTION

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



# SONG ANALYSIS

View\_Count

231bn

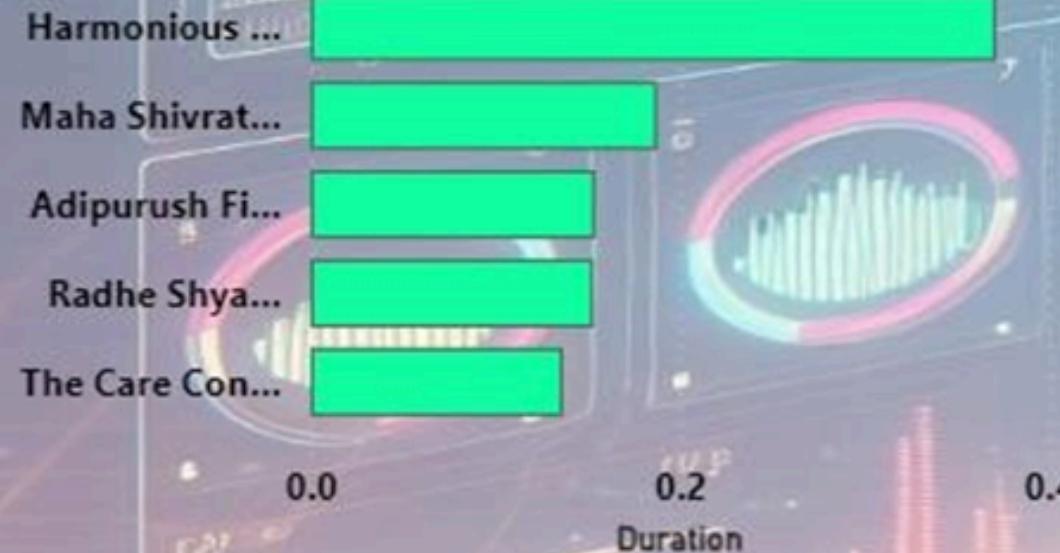
Comment\_Count

51M

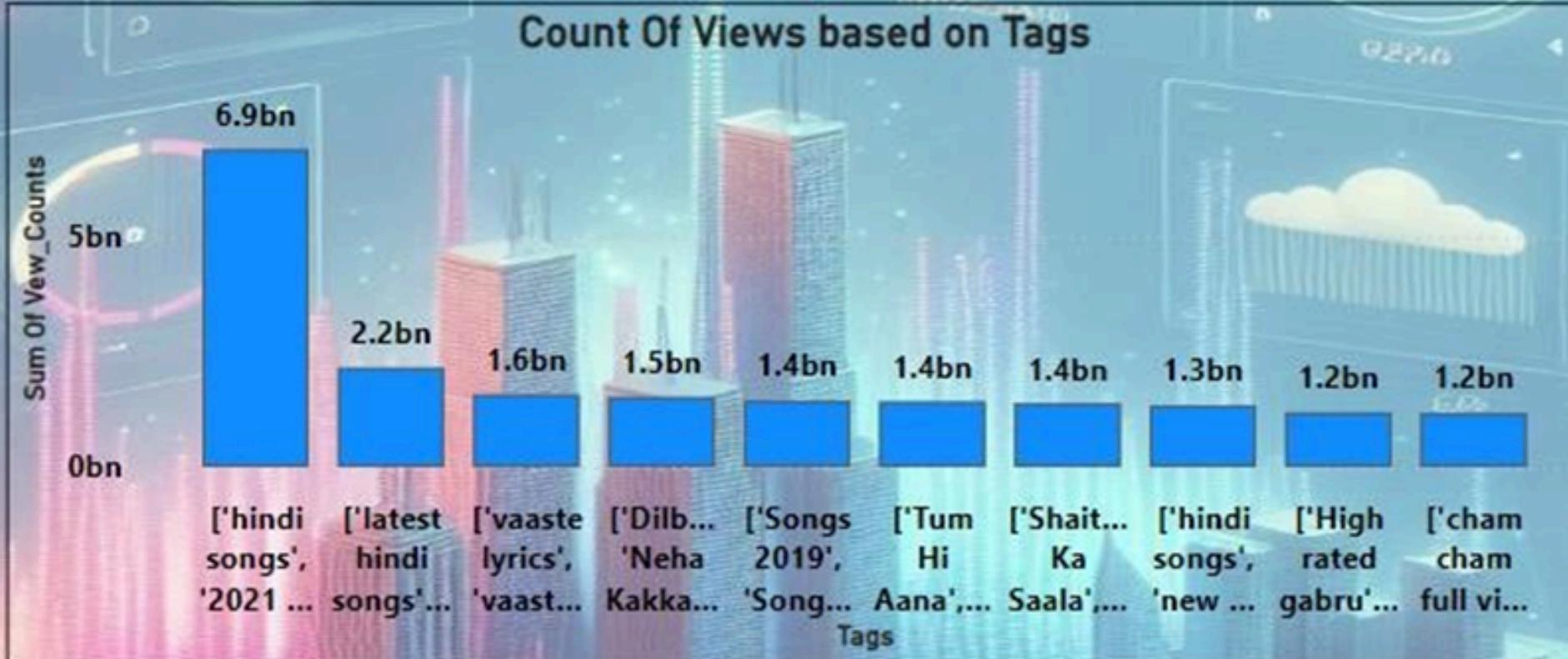
Like\_Count

2bn

Top 5 longest duration for songs



Count Of Views based on Tags

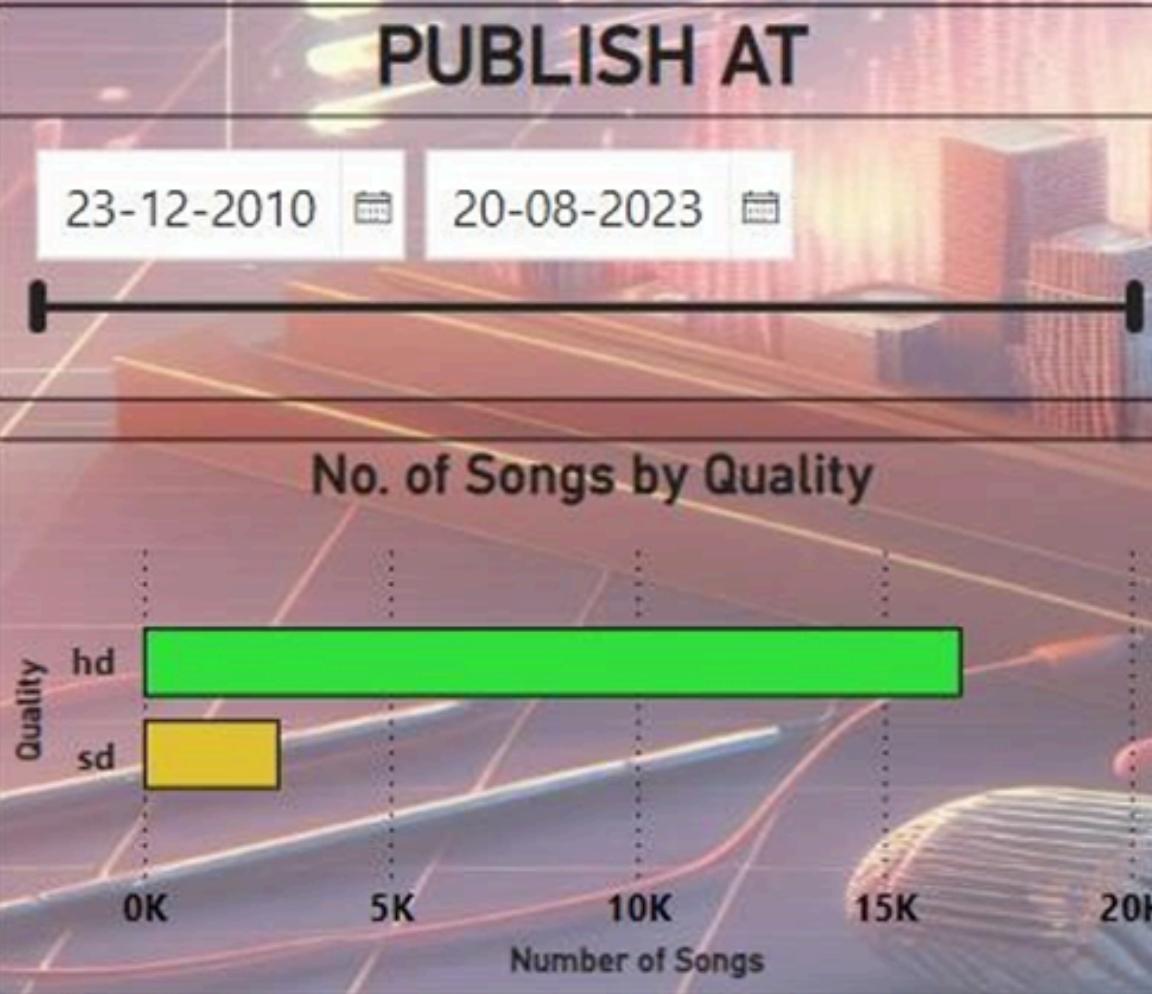


19345

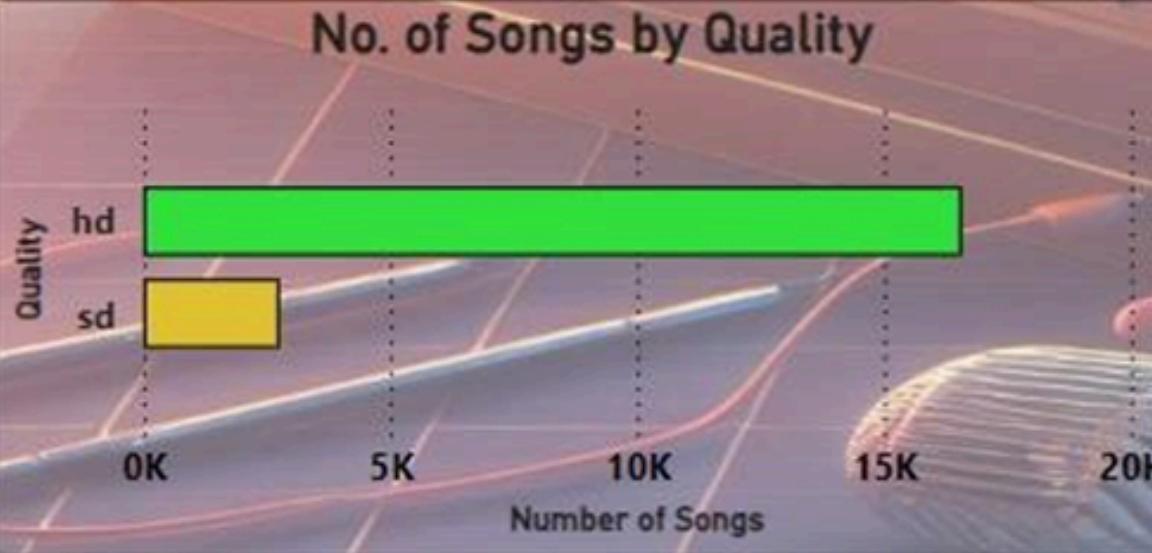
Total No. Of Songs

## PUBLISH AT

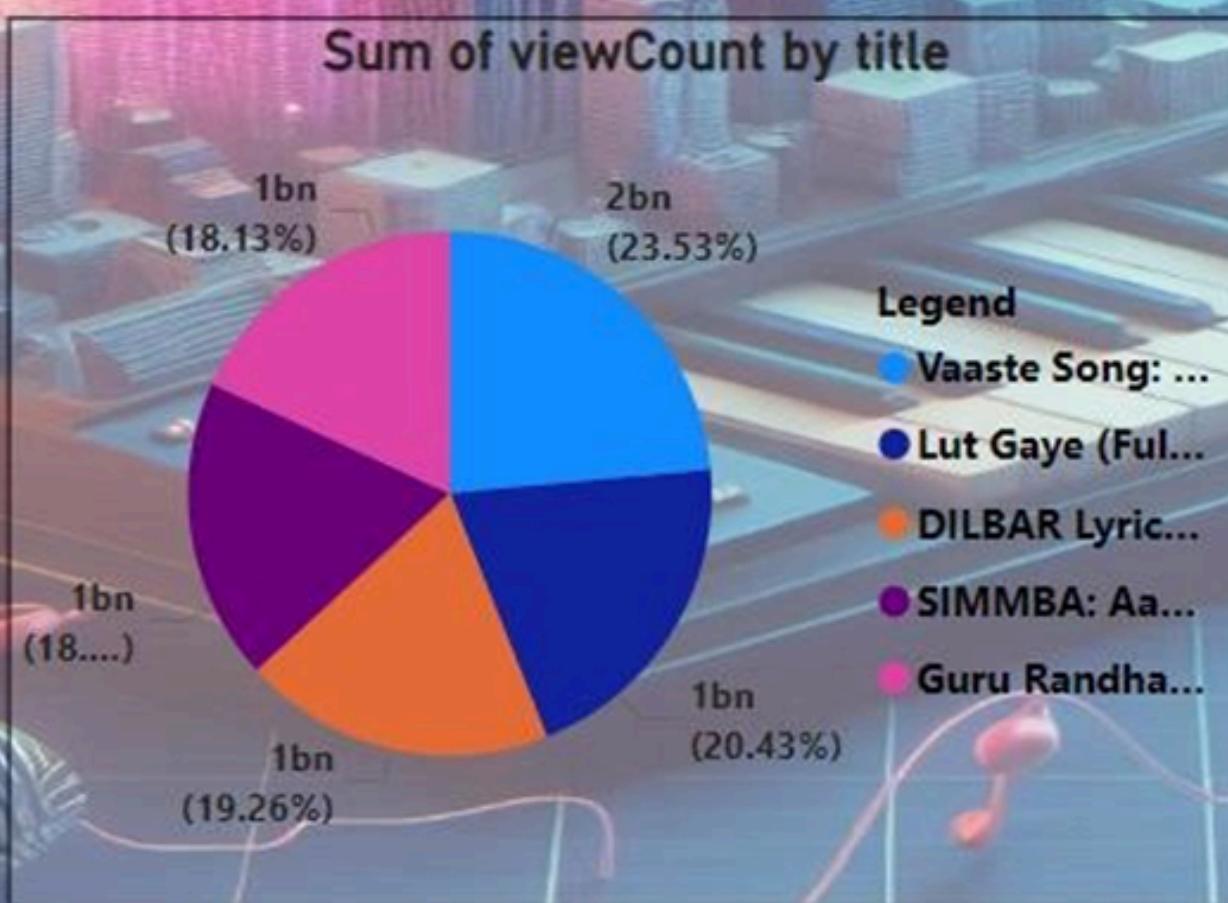
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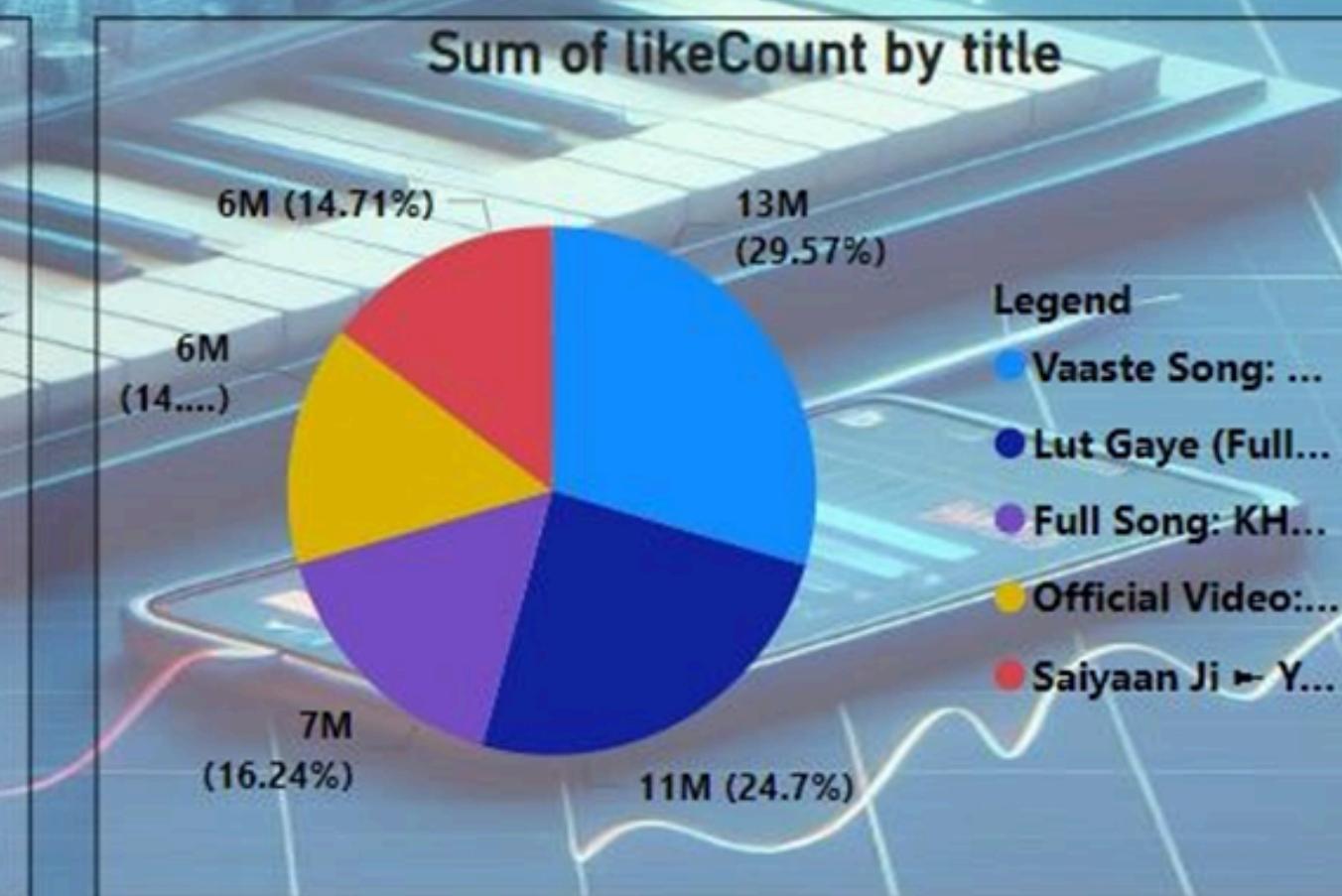
No. of Songs by Quality



Sum of viewCount by title



Sum of likeCount by title



# Thank You

