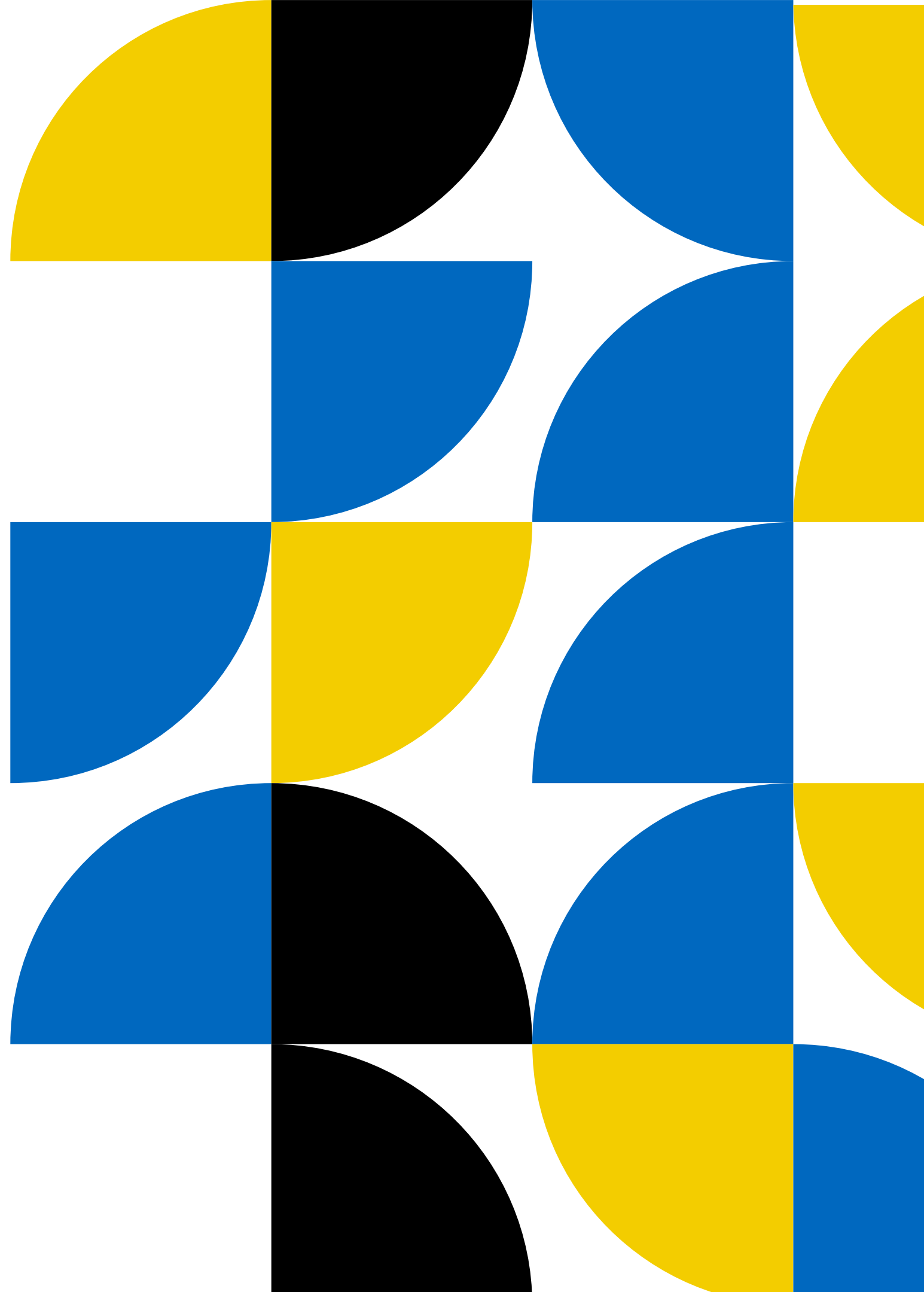




# YouTube Songs Analysis

A Project on Power BI

Lets Roll



# Problem Statement:

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 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.





# Dataset 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.

# Project Objectives:

01

## Data Cleaning and Preparation:

- Clean and preprocess the dataset, handling missing values or outliers.
- Convert relevant columns to appropriate data types.

02

## 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.

03

## Content and Channel Analysis:

- Analyze the distribution of videos across different channels.
- Identify popular tags and their correlation with view counts.

04

## Temporal Trends:

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

05

## User Engagement Insights:

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

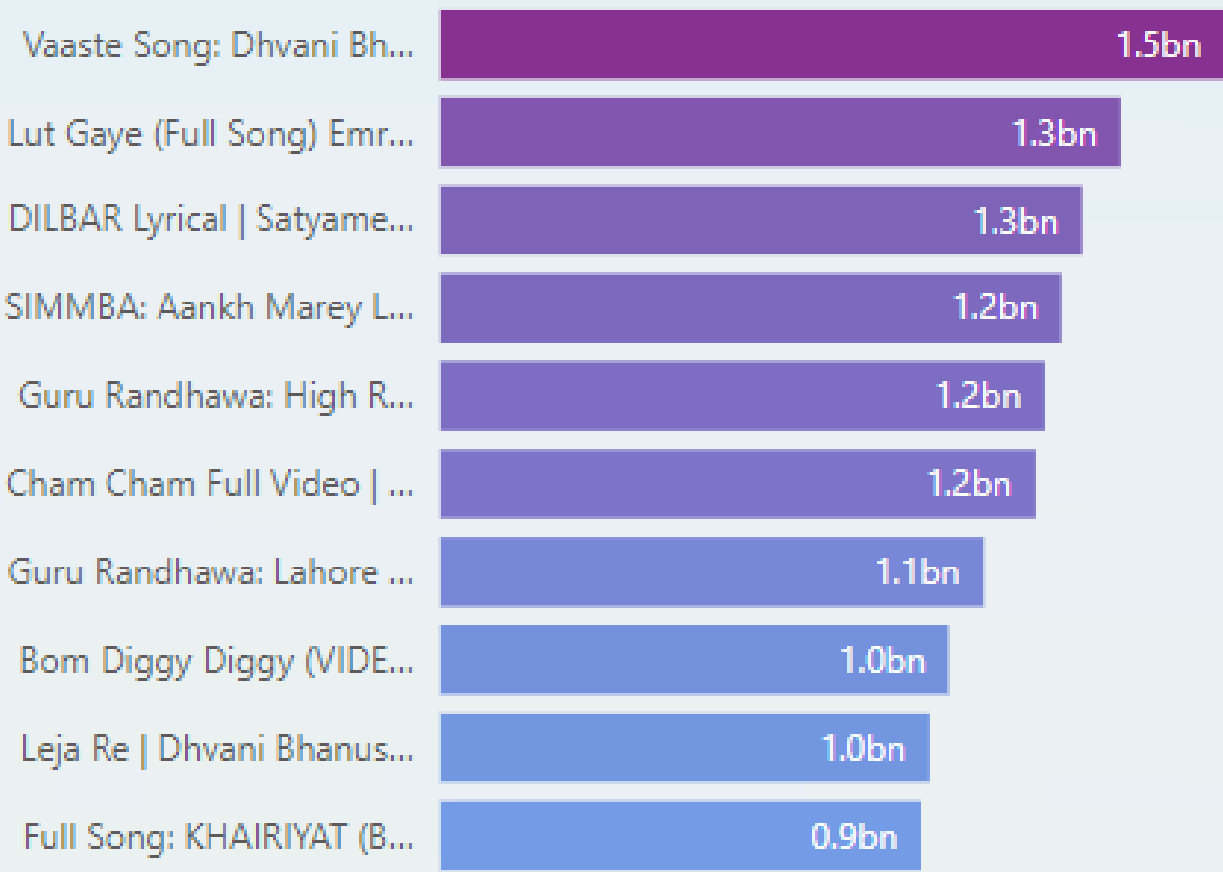
# YouTube Songs Analysis

Year

All



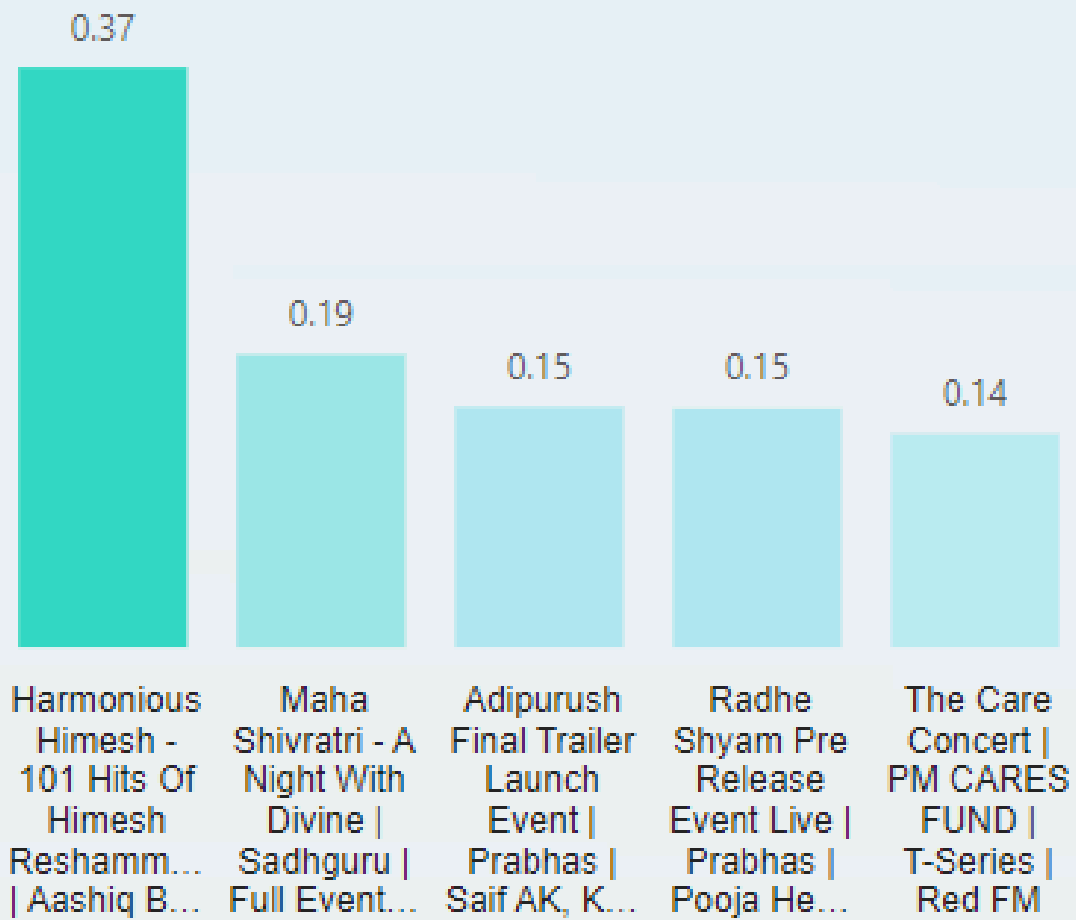
TOP 10 Most Played



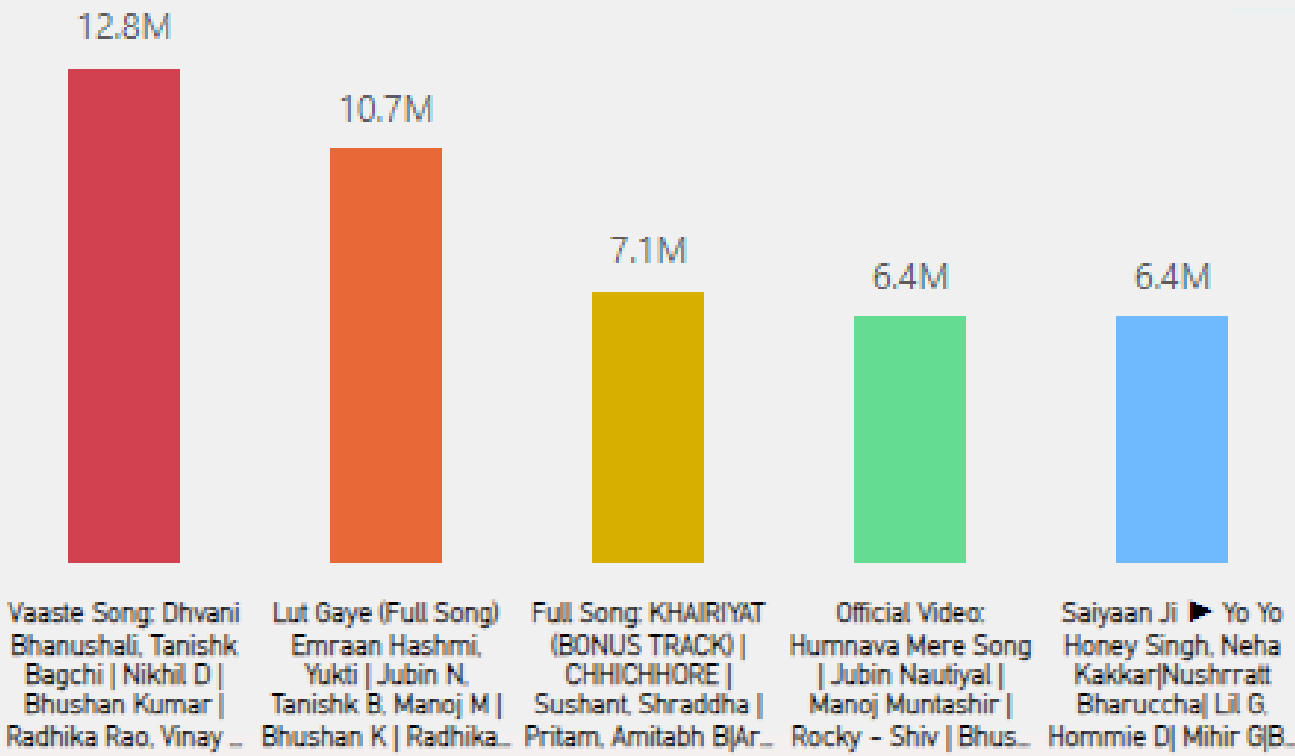
TOP 5 with Highest no. of Comments



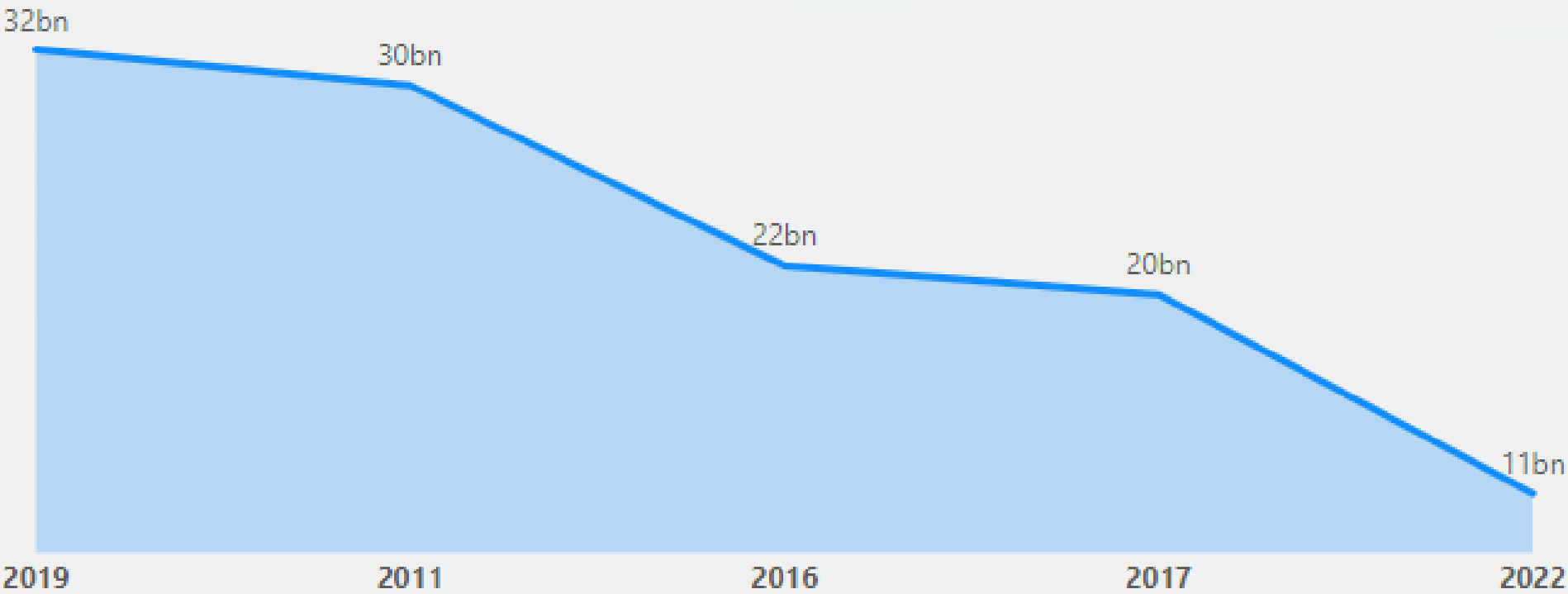
TOP 5 with Longest Duration



TOP 5 Most Liked



Total View Count by Year

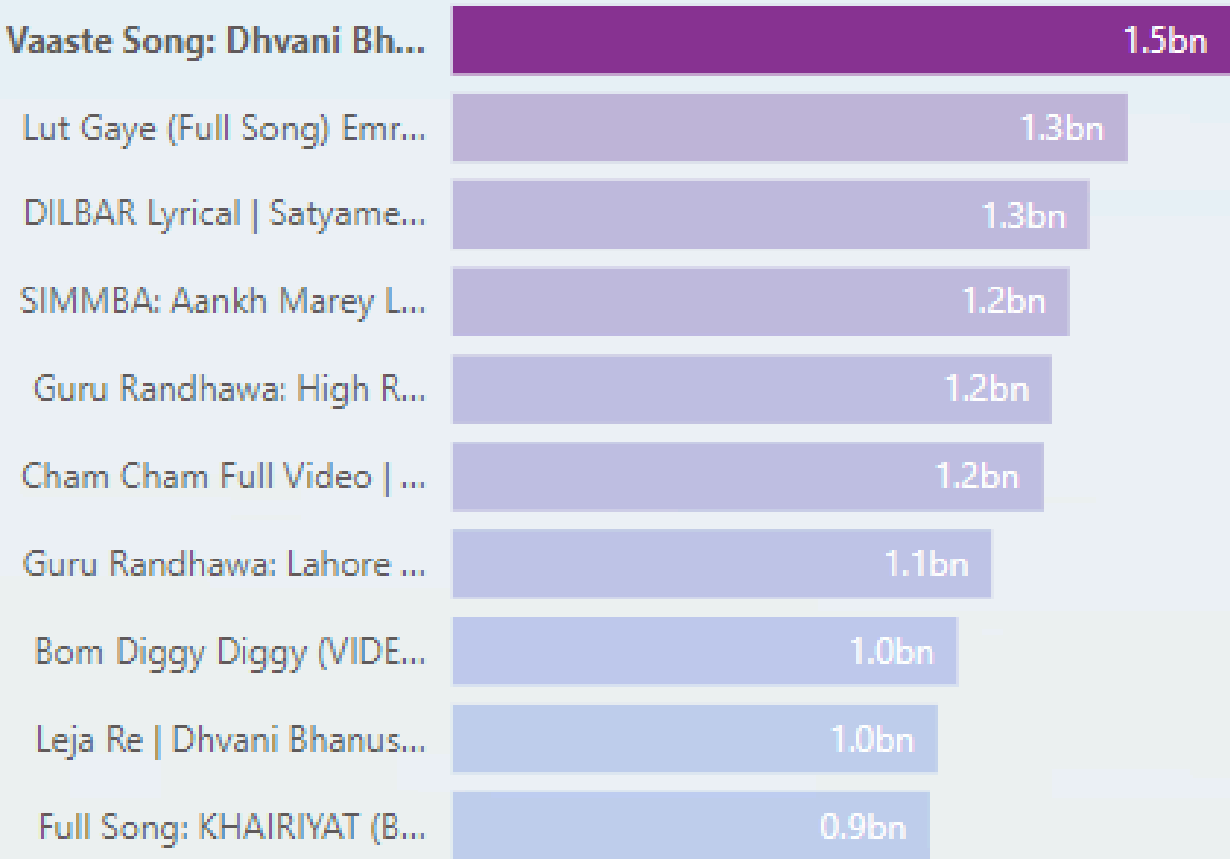


# YouTube Songs Analysis

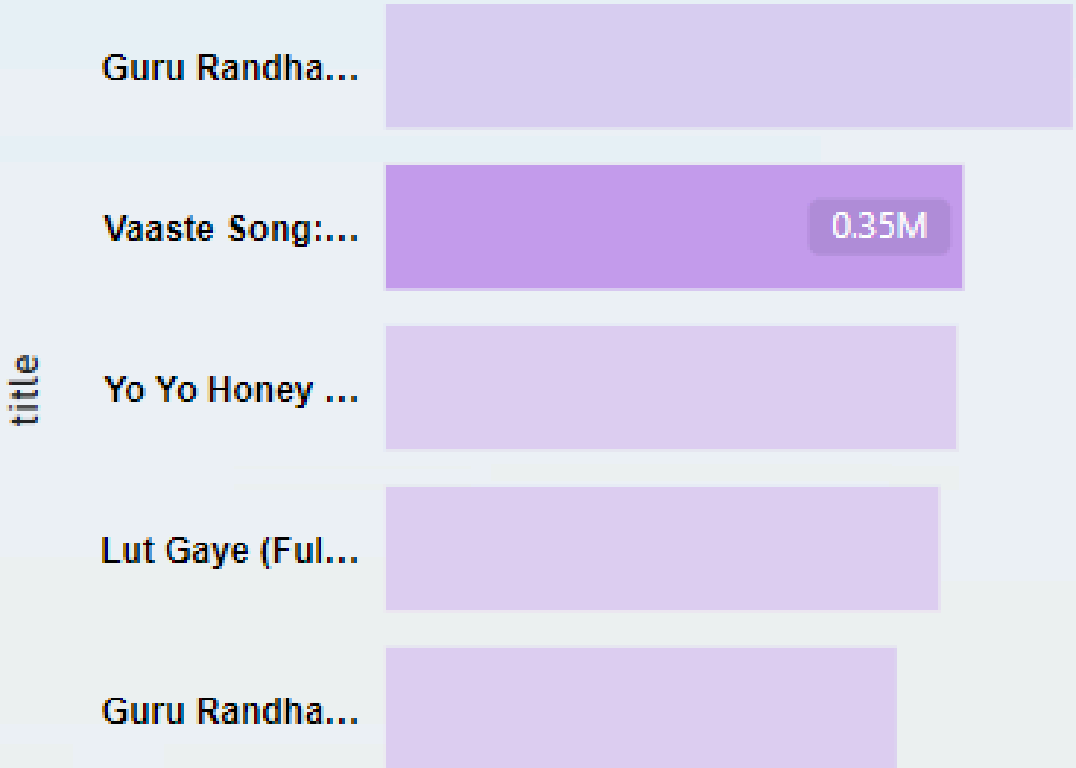
Year

All

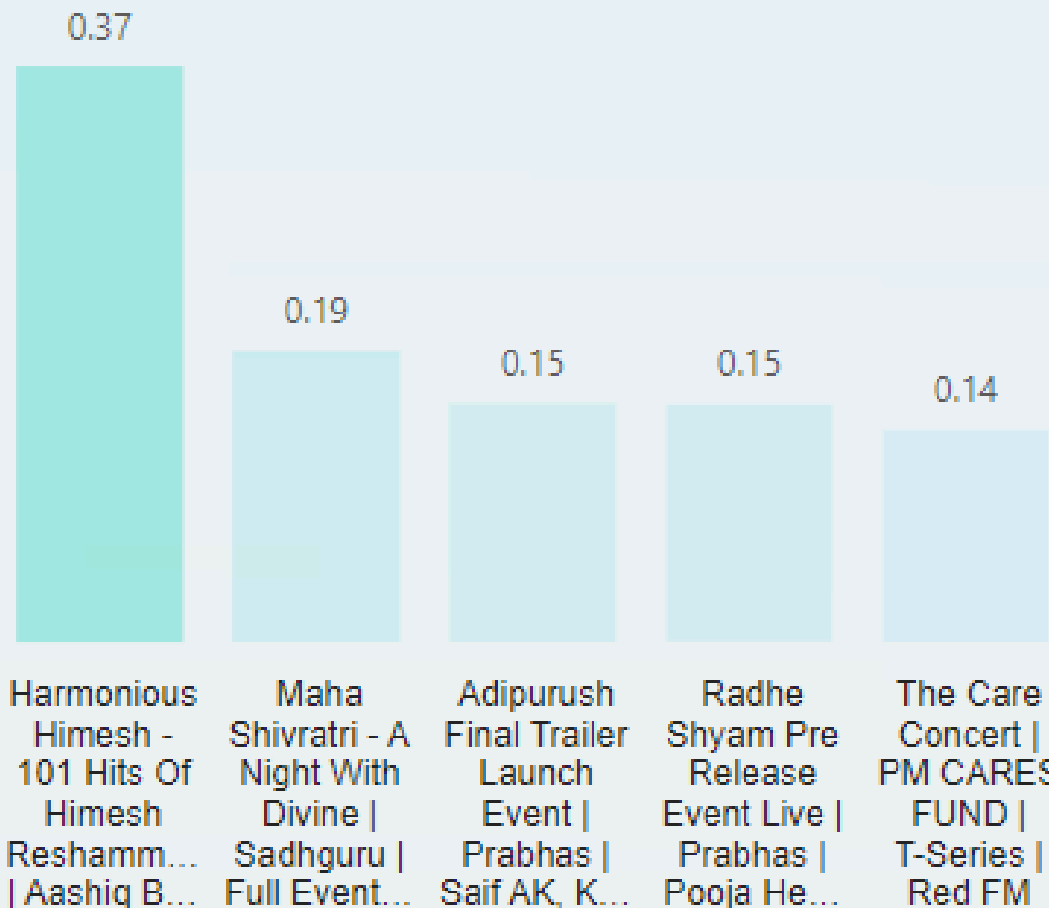
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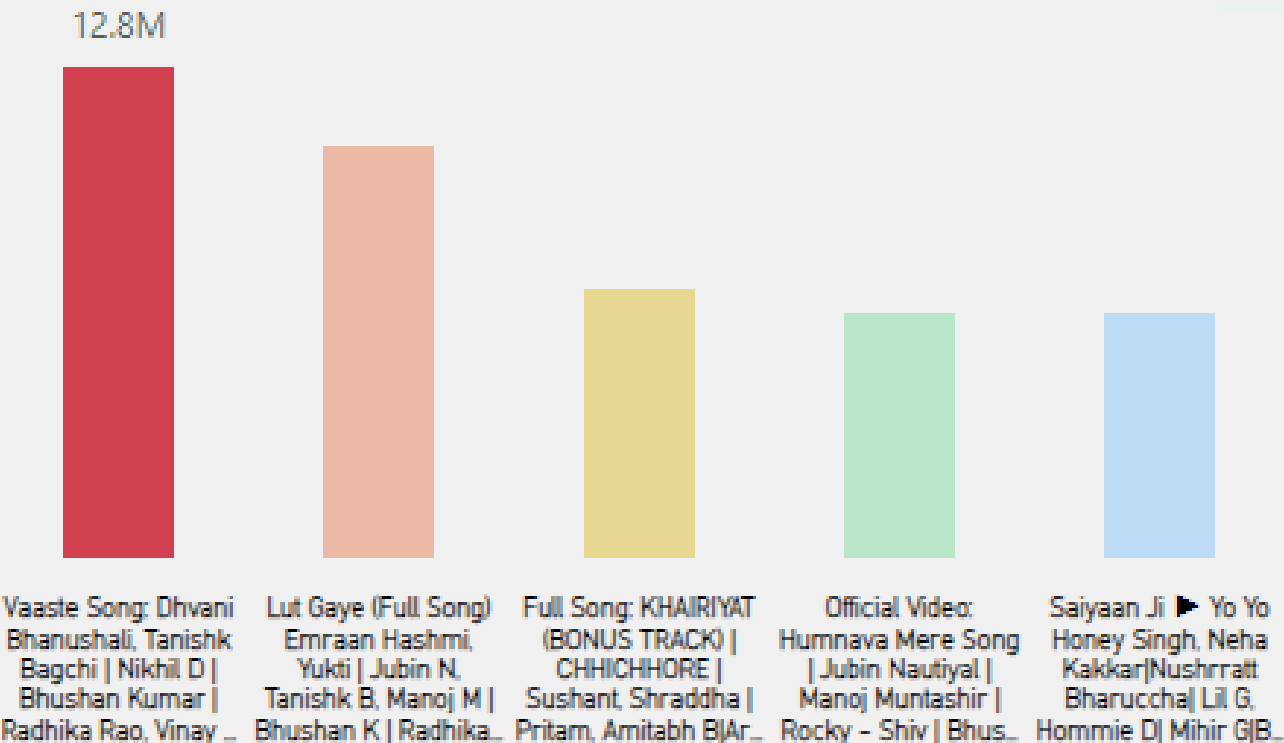
TOP 5 with Highest no. of Comments



TOP 5 with Longest Duration



TOP 5 Most Liked



Total View Count by Year

2bn

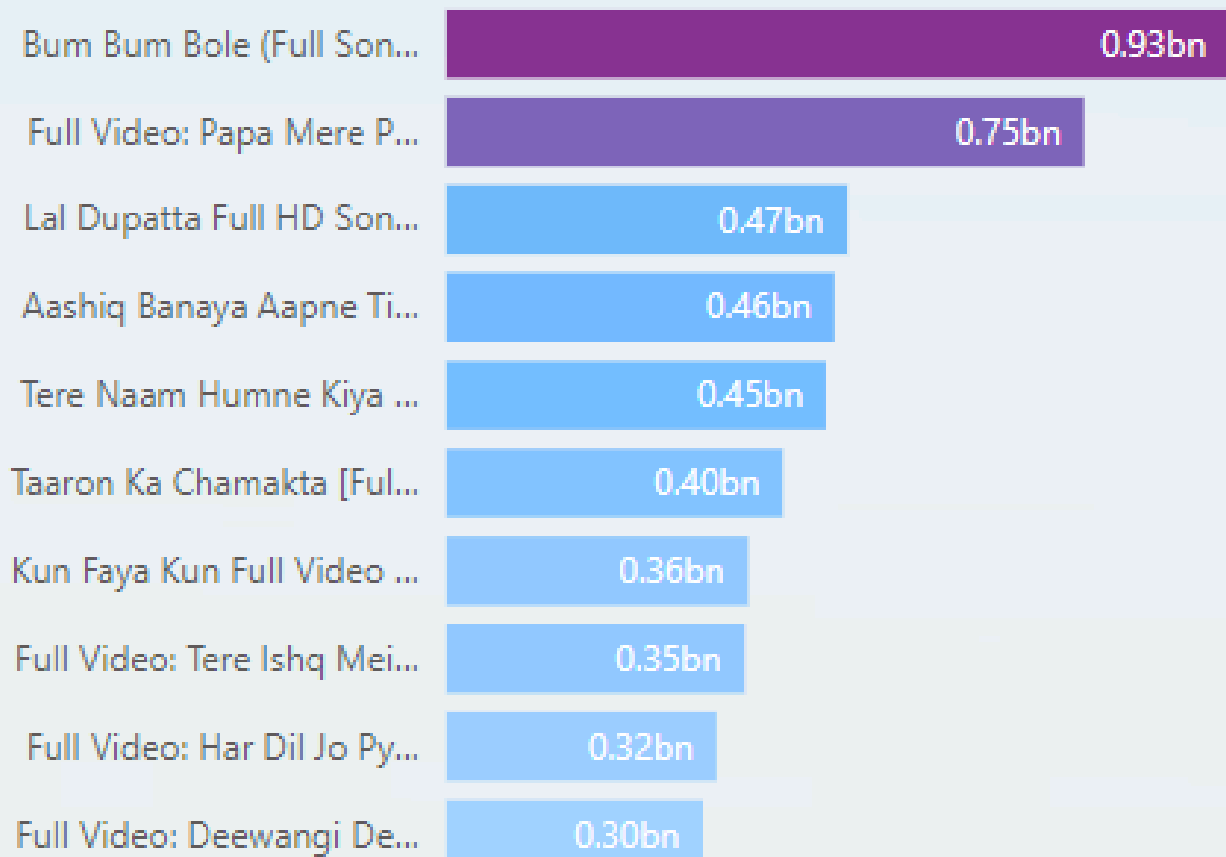
2019

# YouTube Songs Analysis

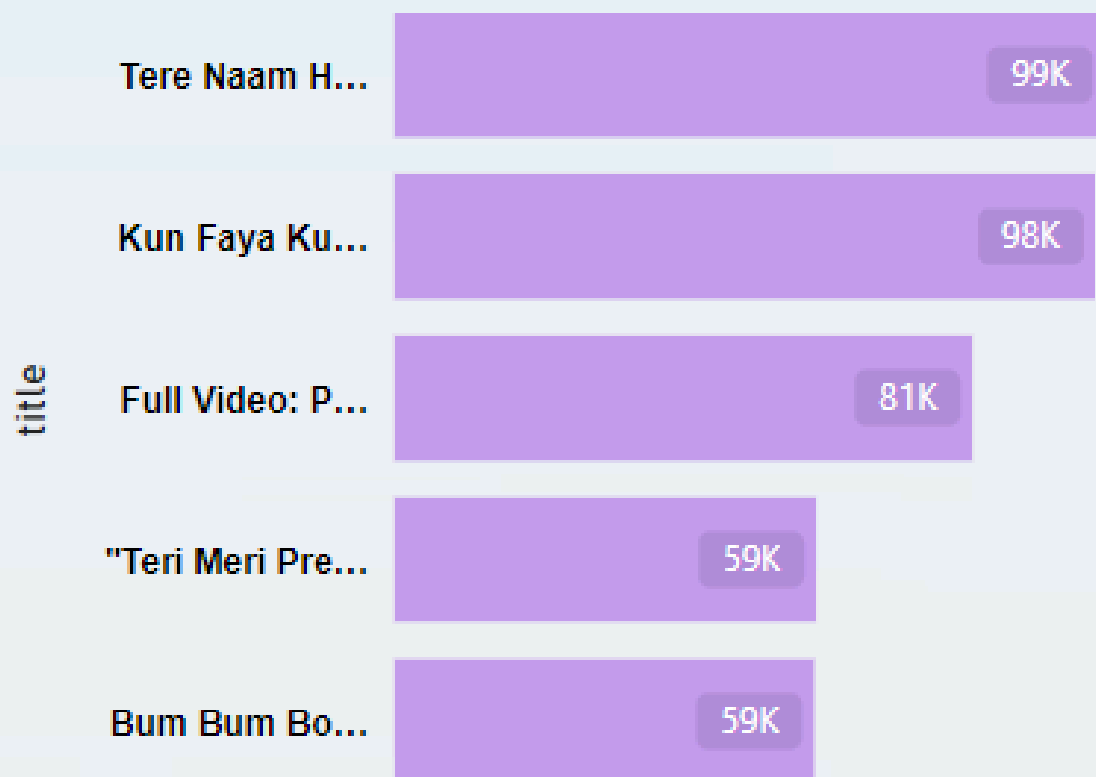
Year

2011

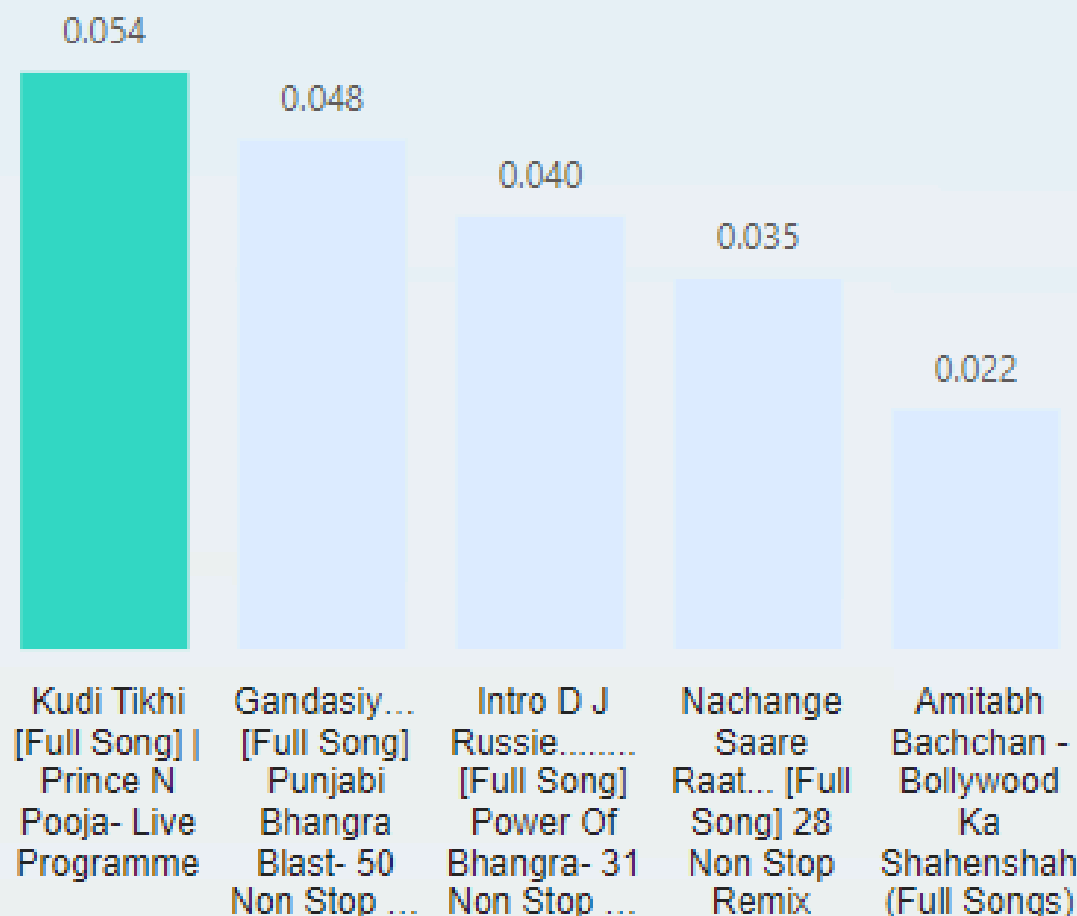
### TOP 10 Most Played



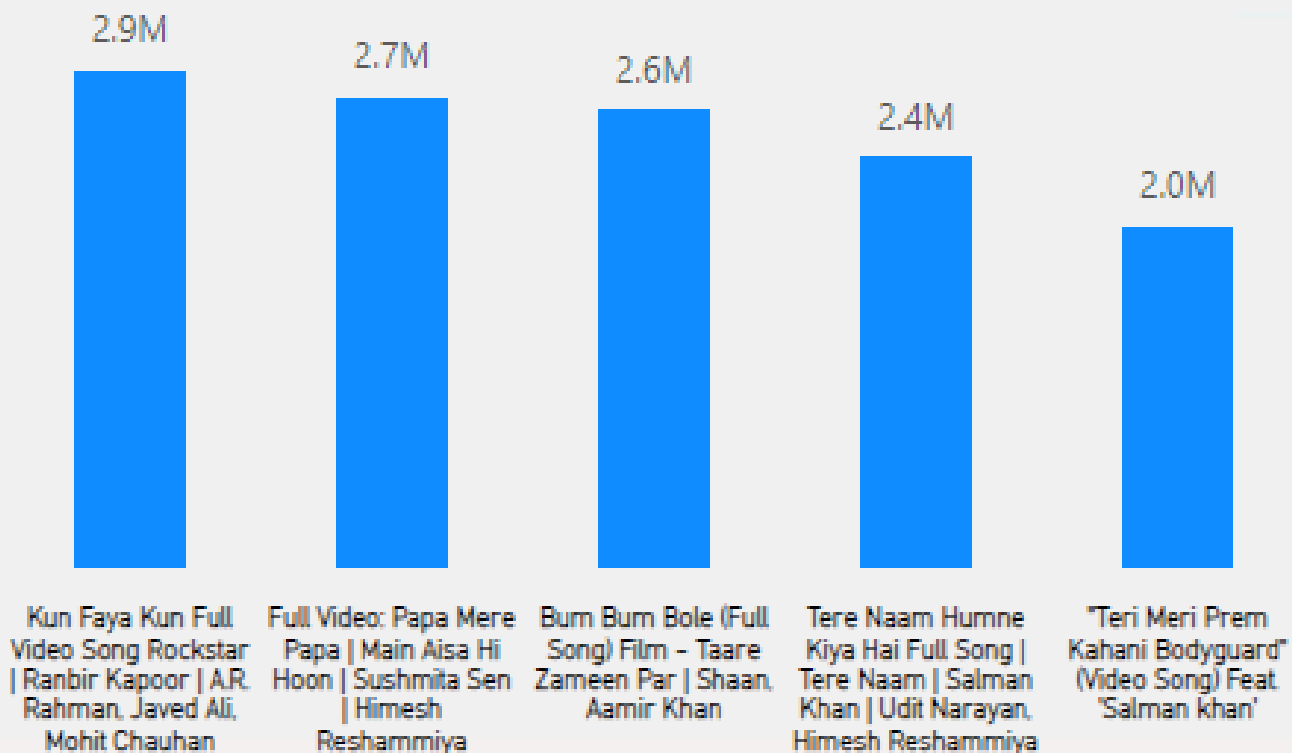
### TOP 5 with Highest no. of Comments



### TOP 5 with Longest Duration



### TOP 5 Most Liked



### Total View Count by Year

30bn

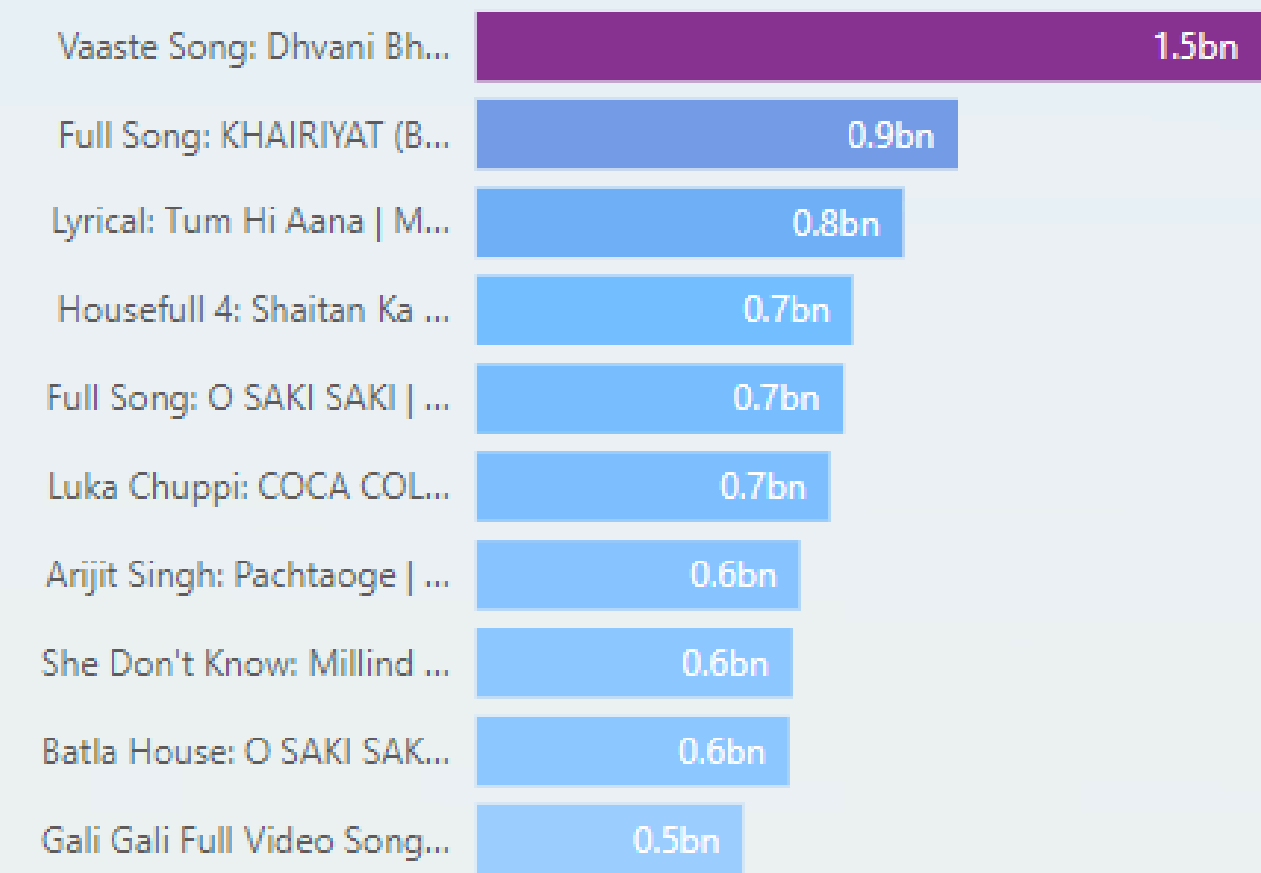
2011

# YouTube Songs Analysis

Year

2019

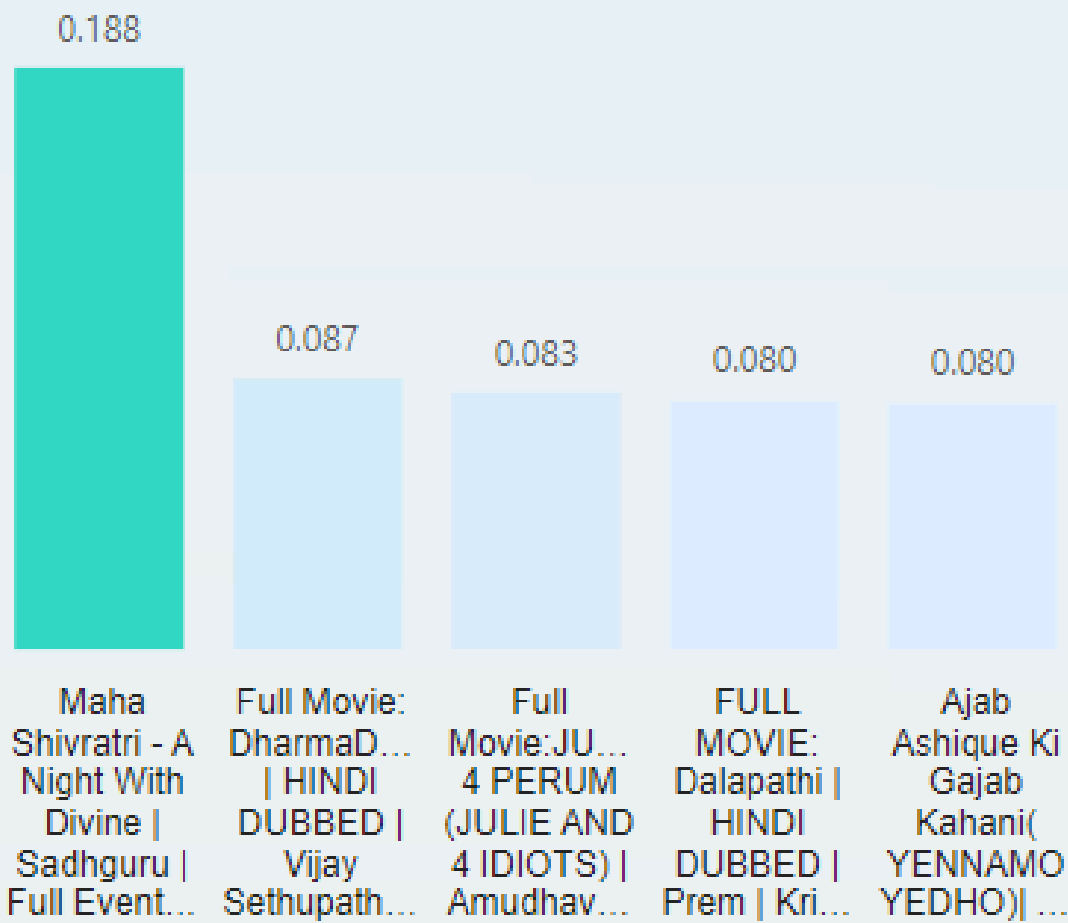
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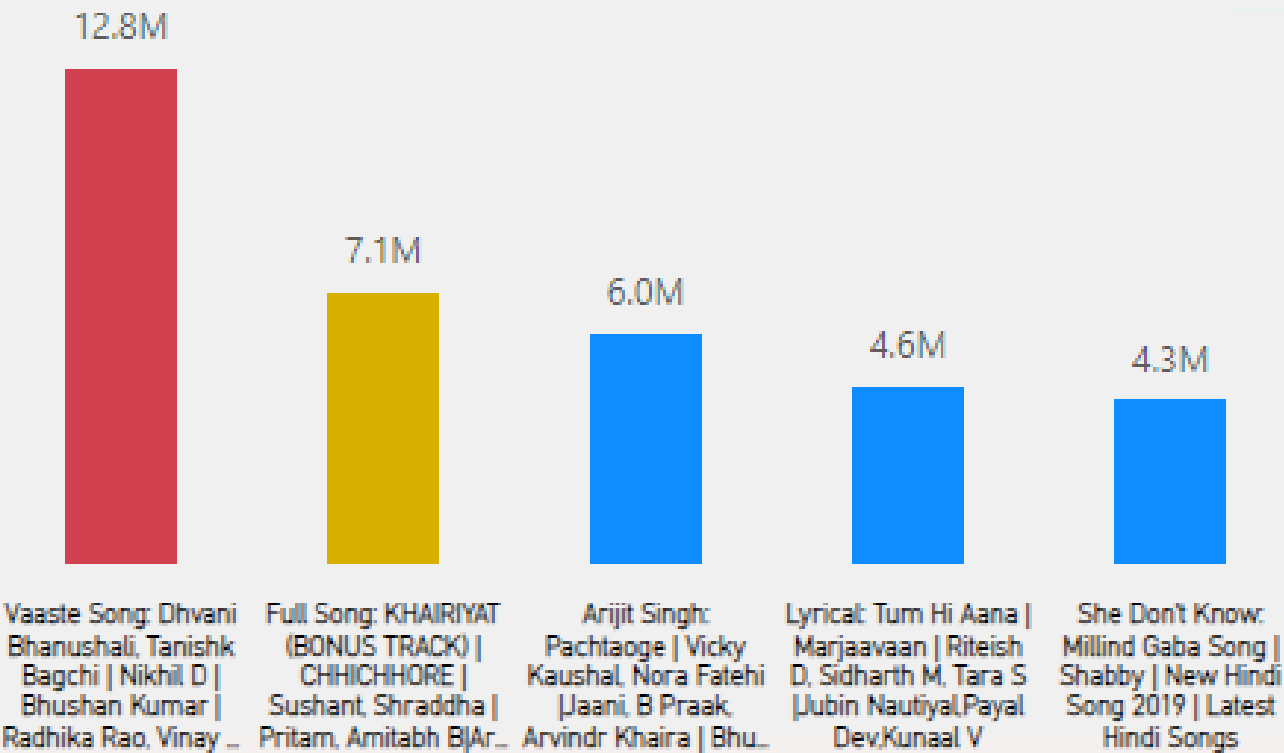
TOP 5 with Highest no. of Comments



TOP 5 with Longest Duration



TOP 5 Most Liked



Total View Count by Year

32bn

2019



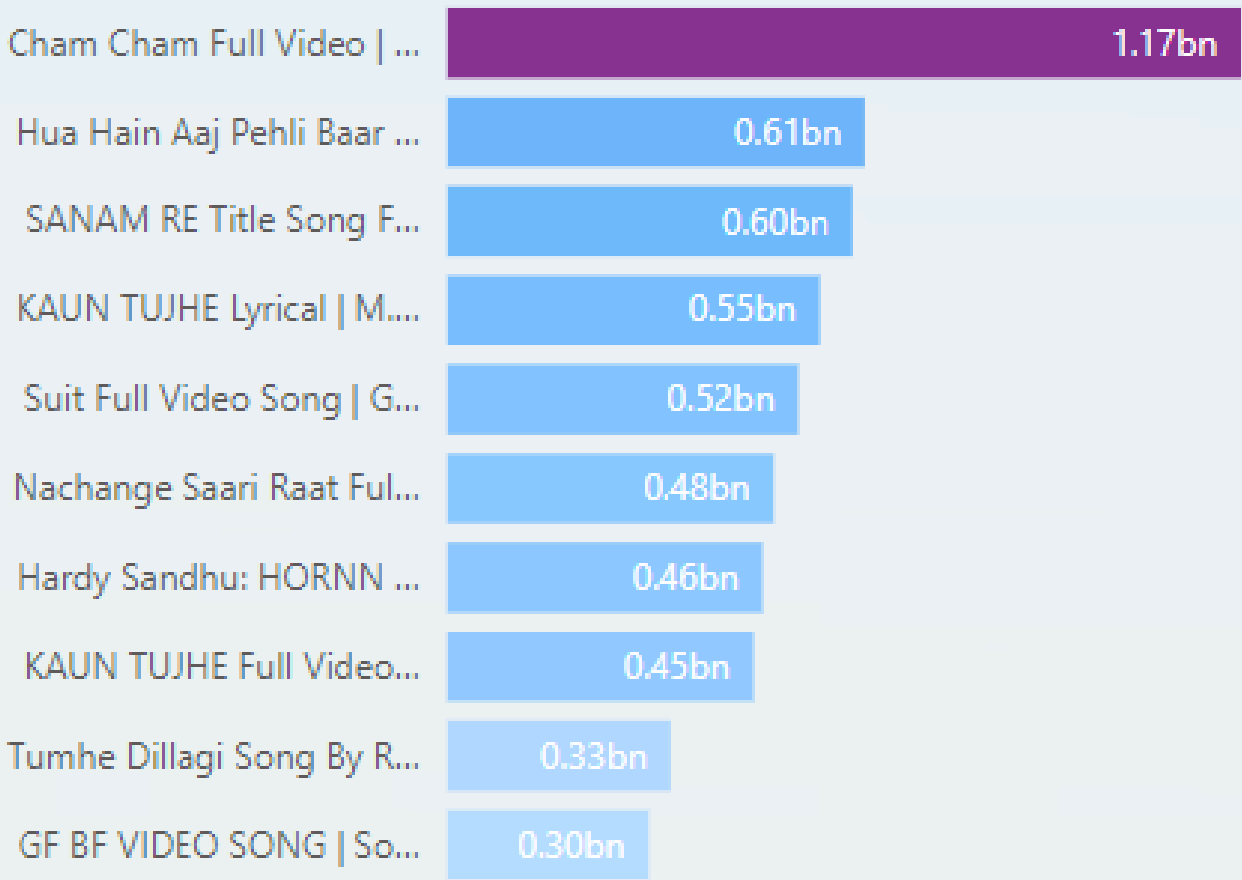
# YouTube Songs Analysis

Year

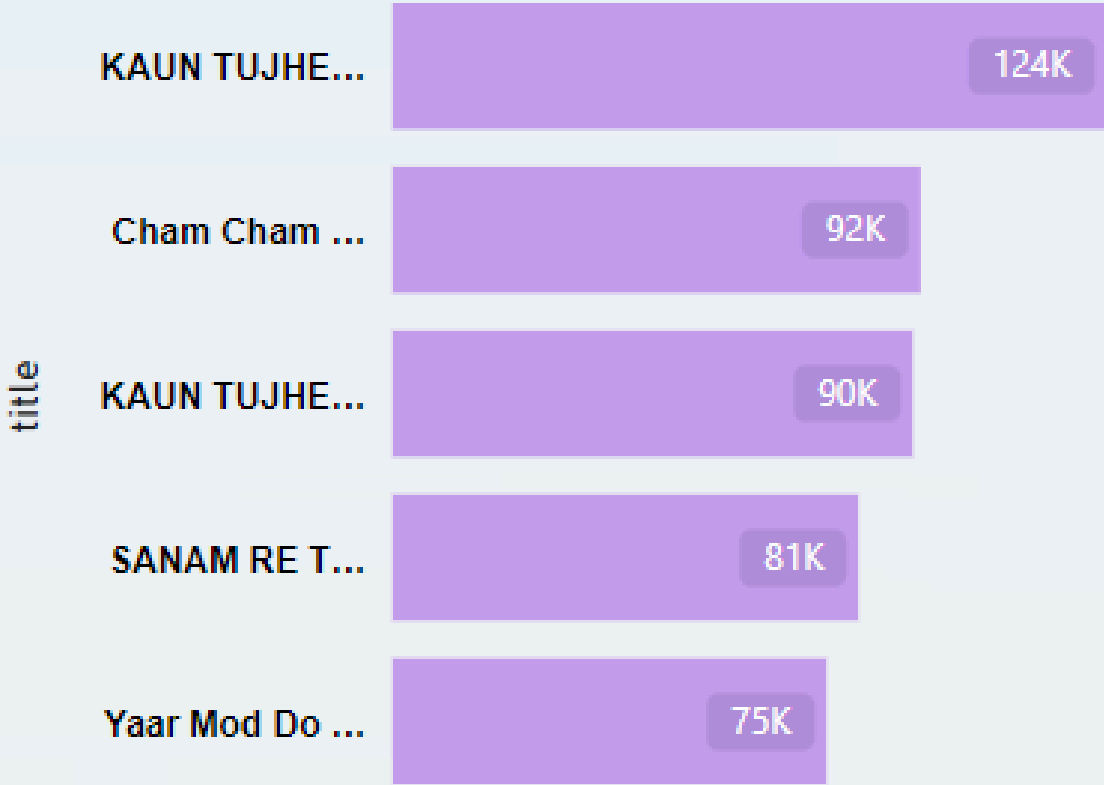
2016



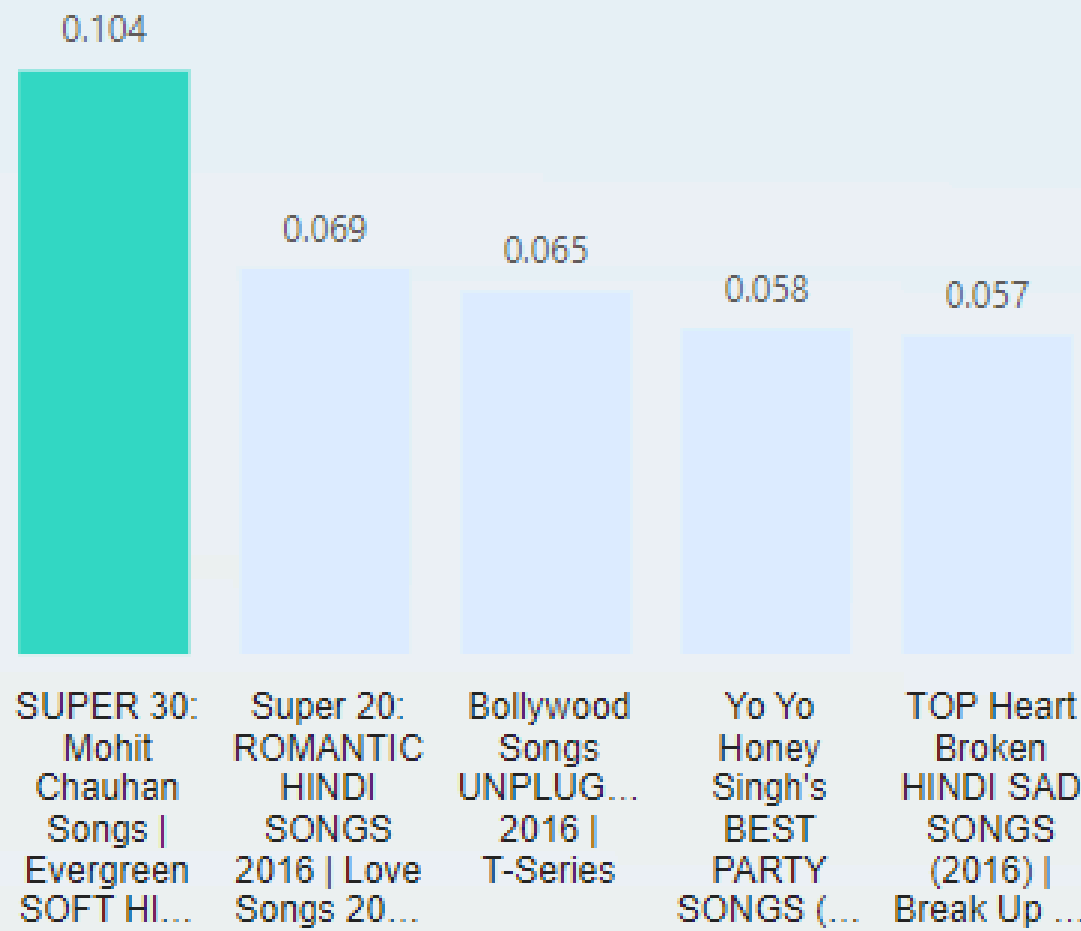
TOP 10 Most Played



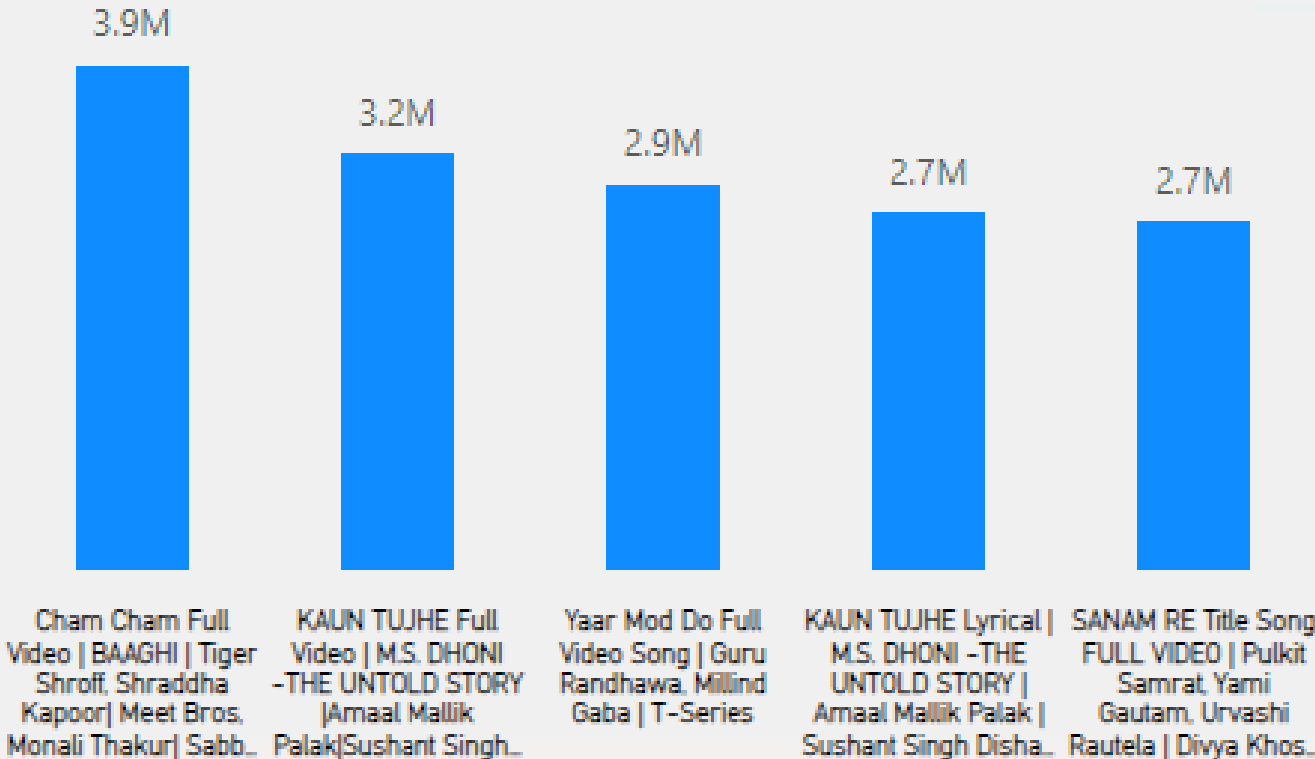
TOP 5 with Highest no. of Comments



TOP 5 with Longest Duration



TOP 5 Most Liked



Total View Count by Year

22bn

2016



**Thank You**

