**Top 100 Trending Hindi Songs Dashboard**

**Overview**

This project aims to analyze and visualize the top 100 trending Hindi songs on Spotify. Using the Spotipy library, data is collected and processed into three distinct dataframes. A Tableau dashboard is then created to provide insights through various charts.

**Data Collection**

Data is sourced from Spotify using the Spotipy library. The following dataframes are created:

1. **Songs**: Contains a list of the top 100 trending Hindi songs.
2. **Artists**: Contains a list of artists for each song.
3. **Markets**: Contains a list of markets in which each song is available.

**Data Structure**

The dataframes are connected through the song\_id, which serves as the primary key.

* **Songs DataFrame**:
  + song\_id: Unique identifier for each song.
  + song\_name: Name of the song.
  + popularity: Popularity score of the song.
  + duration\_ms: Duration of the song in milliseconds.
  + Other relevant song metadata.
* **Artists DataFrame**:
  + song\_id: Unique identifier for each song.
  + artist\_name: Name of the artist.
  + Other relevant artist metadata.
* **Markets DataFrame**:
  + song\_id: Unique identifier for each song.
  + market: Market where the song is available.
  + Other relevant market metadata.

**Tableau Dashboard**

The Tableau dashboard consists of three main charts, providing comprehensive insights into the trending Hindi songs:

1. **Top 100 Most Trending Hindi Songs and Their Popularity**:
   * Displays the top 100 songs filtered by their duration.
   * Visual representation of the popularity score of each song.
2. **Top 5 Artists with Maximum Hits**:
   * Highlights the artists with the most songs in the top 100 list.
   * Comparative analysis of the number of hits by each artist.
3. **Hits by Veteran Indian Singers**:
   * Focuses on songs by veteran Indian singers, such as Lata Mangeshkar, that are still trending.
   * Analysis of the enduring popularity of these iconic singers.

**Prerequisites**

* Python 3.x
* Spotipy library
* Tableau

**Usage**

1. **Set up Spotify API credentials**:
   * Obtain your Spotify API credentials (client ID and client secret) from the [Spotify Developer Dashboard](https://developer.spotify.com/dashboard/).
   * Set your credentials as environment variables or directly in the script.

**Contributing**

Contributions are welcome! Please fork the repository and create a pull request with your changes.

**License**

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**Acknowledgements**

* Thanks to Spotify for providing the data through their API.
* Special thanks to the artists for their incredible music.

**Contact**

For any questions or feedback, please reach out to arnabm2007@gmail.com