# Assignment 5

Tableau Dashboard

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# Assignment 5- Tableau Dashboard

For this assignment I chose a Spotify dataset from Kaggle which gave a detailed view into genre, popularity, artists etc. I was able to create 3 distinct relationships from this dataset.

1. Genre vs Energy

To determine which genre produced the most energetic music, I analyzed the data by focusing on the 'genre' and 'energy' columns. I visualized this relationship using a tree map, where each genre is represented by a block. The size of each block correlates with the presence or popularity of that genre, and the color gradient provides insights into the energy levels of the music in each genre.

The color scale ranged from dark green to black, with dark green indicating the highest energy levels and black representing the lowest. This allowed me to quickly identify the genres that consistently produced the most energetic music.

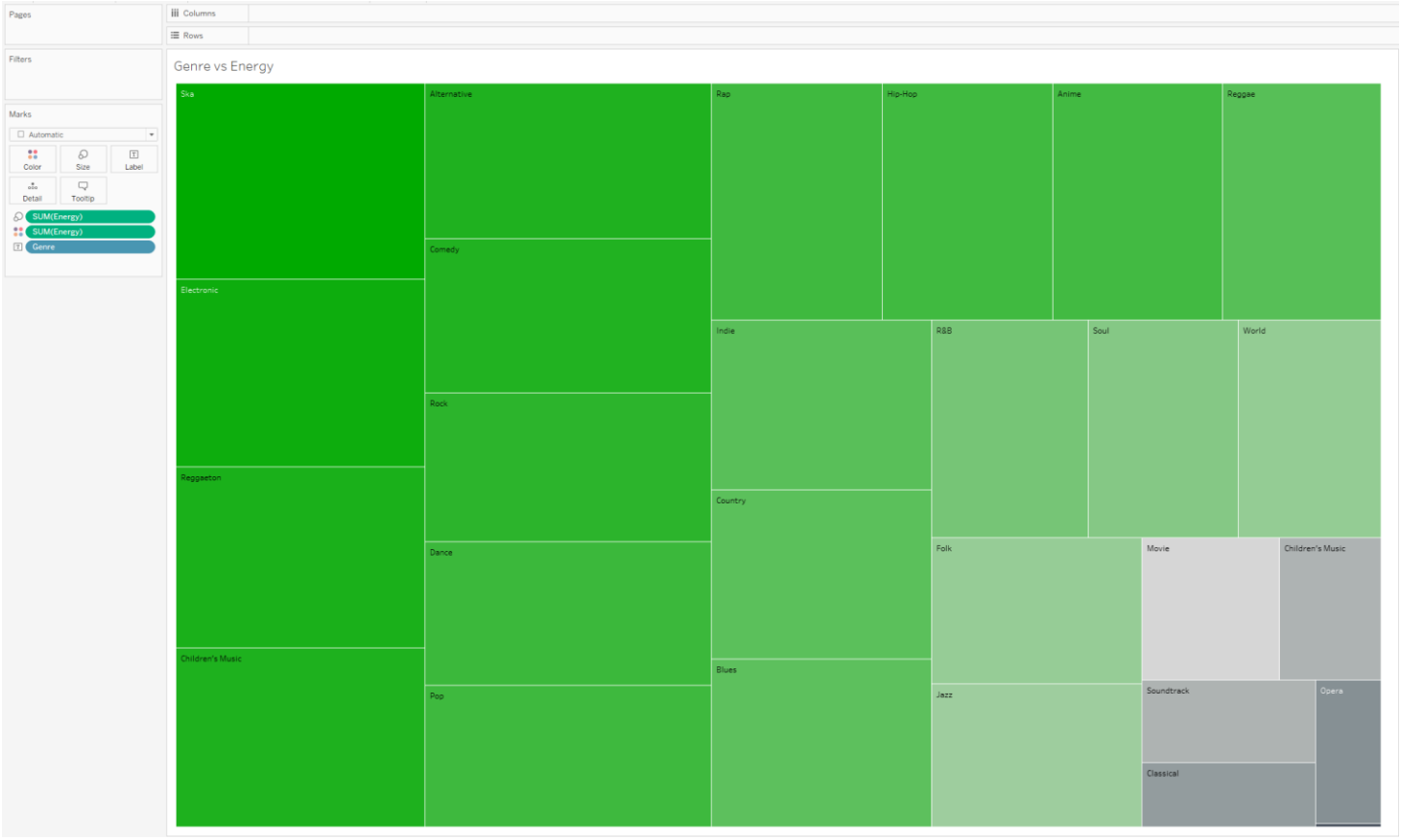


Figure 1: Tableau sheet for Genre vs Energy

2. Genre vs Popularity

To explore the relationship between musical genres and their popularity, I utilized a horizontal bar chart to visualize the data from the 'genre' and 'popularity' columns. In this chart, each bar represents a specific genre, with the length of the bar indicating the average popularity score associated with that genre.

This format makes it easy to compare the popularity of different genres side by side. By organizing the genres horizontally, I was able to clearly display variations in popularity, allowing for straightforward

identification of which genres resonated most with listeners. The longer the bar, the more popular the genre provides a clear visual representation of the music landscape in terms of audience engagement and preference.

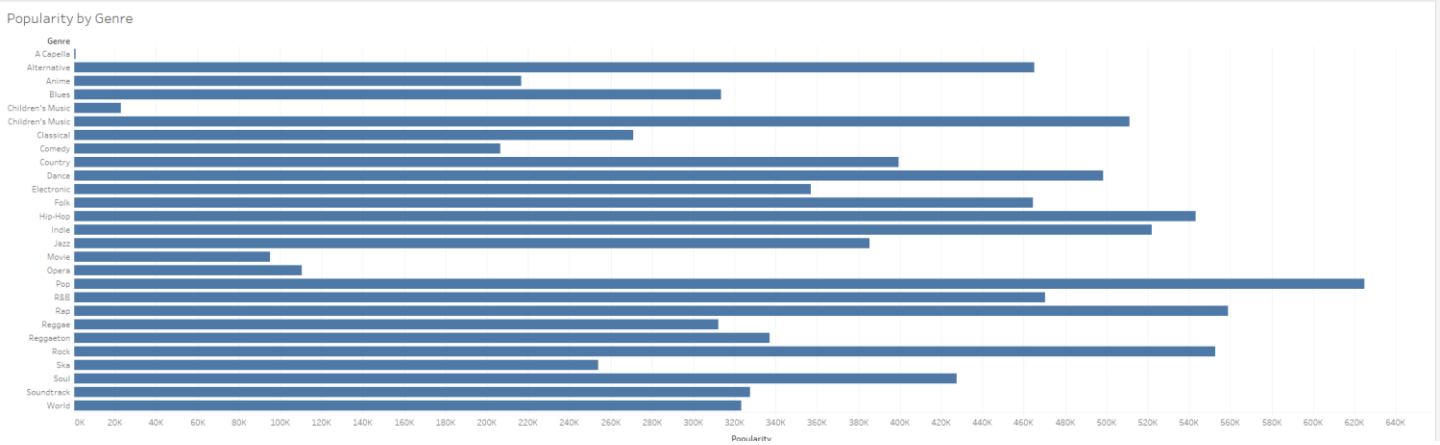


Figure 2: Tableau sheet for Genre vs Popularity

3. Top 10 tracks on Spotify

To showcase the top ten tracks on Spotify, I employed a highlight table that effectively presents the data in a visually appealing manner. In this table, the track names are listed on the left, while the average popularity scores are displayed on the right.

To emphasize the top ten tracks, I utilized a color gradient that transitions from dark blue to light blue. This color scheme serves to indicate the relative popularity of each track, with darker shades representing higher popularity and lighter shades indicating lower popularity within the top ten. This approach not only makes it easy to identify the most popular tracks at a glance but also allows for a quick comparison of their popularity levels, highlighting the standout songs within the Spotify landscape.

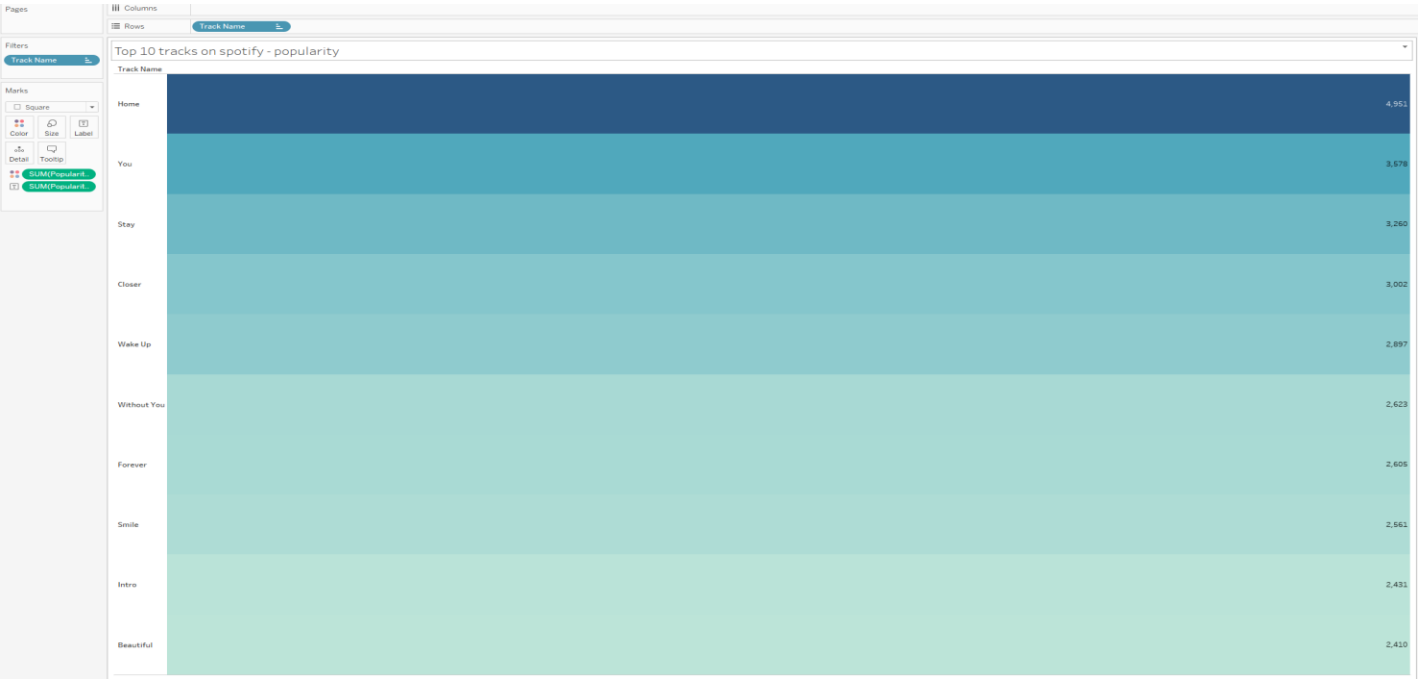

Figure 3: Tableau sheet for Top 10 tracks on Spotify

Combining all together dashboard comes out to be colorful and presentable.

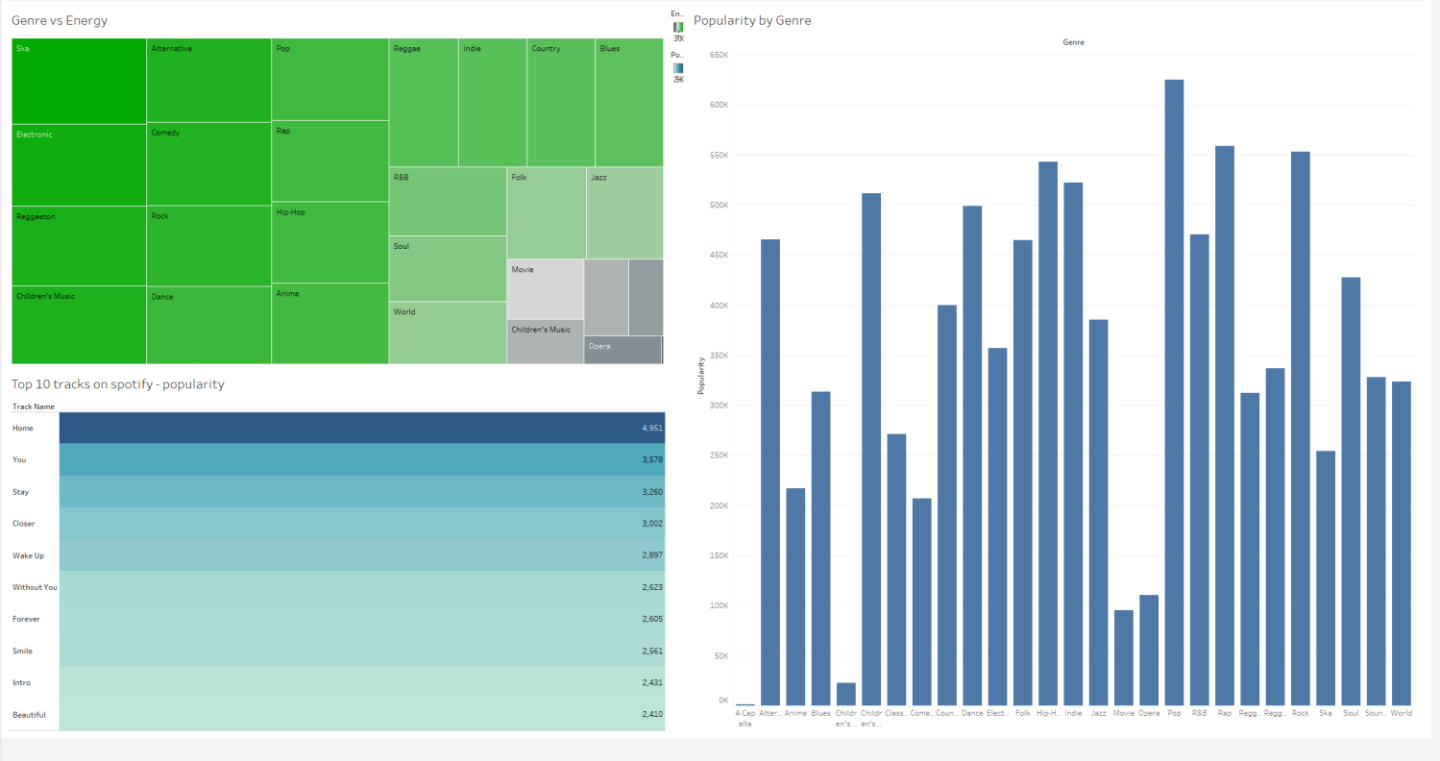


Figure 4: Tableau Dashboard for Spotify data analysis

References

Dataset: https://www.kaggle.com/datasets/zaheenhamidani/ultimate-spotify-tracks-db?ref=hackernoon.com

Tableau Software. (n.d.). Tableau: Business intelligence and analytics software. Retrieved [date], from https://www.tableau.com/