Billboard Hot 100 charts 1965 - 2021 Billboard

Introduction

In this project, we analysed the Billboard Hot 100 data using Microsoft SQL Server to gain insights into the most popular artists and songs of all time. The purpose of this analysis was to provide Spotify with valuable insights that could help them improve their recommendation algorithms and user experience.

Data Collection

We obtained the Billboard Hot 100 data from <u>data.world</u> which contained information about the week position, song, performer, previous week position, peak position, and weeks on the chart for each entry.

Data Analysis

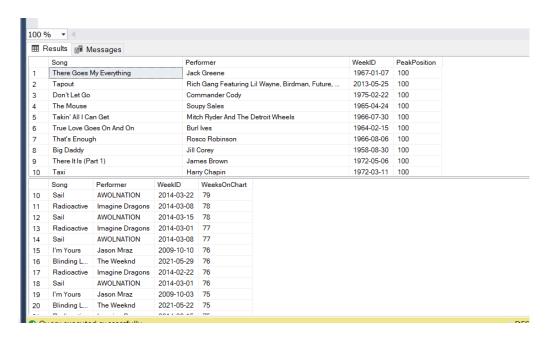
We used Microsoft SQL Server to analyse the data and extract valuable insights. Specifically, we used SQL queries to identify the topmost popular artists and the most popular songs of all time and of 2021.



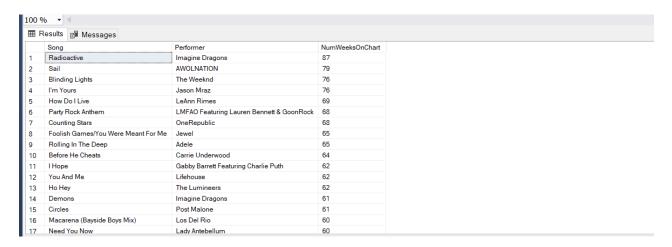
We also found the number of unique songs and unique performers in the dataset, the top.



songs with the highest peak position and longest weeks on chart,



and the number of weeks each song has been on the chart.



Finally, we found the number of songs that have dropped from a certain position to a lower position on the chart.



Results and Benefits

The results of our analysis can be of great benefit to Spotify's business. By incorporating these insights into their recommendation algorithms, they can improve the accuracy of their personalized recommendations and enhance the overall user experience. For example:

- By knowing the most popular artists of all time, Spotify can create custom playlists featuring their songs, which can help retain users and increase engagement.
- By knowing the most popular songs of all time and of 2021, Spotify can create
 playlists and recommendations based on these songs, which can help attract new
 users and increase user engagement.
- By knowing the number of unique songs and unique performers in the dataset,
 Spotify can better understand the diversity of music and artists that are popular among listeners.
- By knowing the top songs with the highest peak position, Spotify can create playlists
 and recommendations based on these songs, which can help attract new users and
 increase user engagement.
- By knowing the number of weeks each song has been on the chart, Spotify can
 create playlists and recommendations based on the longevity of songs, which can
 help attract users who prefer listening to classic hits.
- By knowing the number of songs that have dropped from a certain position to a
 lower position on the chart, Spotify can gain insights into the popularity and decline
 of songs and adjust their recommendation algorithms accordingly.

Overall, the insights gained from our analysis can help Spotify stay ahead of the competition and improve their position in the music streaming industry.