

SQL Data Analyst Project

By Yuva Teja

➤ Retrieve the names of all tracks that have more than 1 billion streams

- `SELECT track_name FROM Spotify WHERE streams>1000000000;`

| Result Grid | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-------------------------------------|--------------|---------|--------------------|
| | track_name | | | |
| ▶ | Seven (feat. Latto) (Explicit Ver.) | | | |
| | LALA | | | |
| | vampire | | | vampire |
| | Cruel Summer | | | |
| | WHERE SHE GOES | | | |
| | Sprinter | | | |

➤ List all albums along with their respective artists

- `SELECT track_name, artist(s)_name as artist FROM spotify ;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-------------------------------------|-------------------|--------------|---------|--------------------|
| | track_name | artist | | | |
| ▶ | Seven (feat. Latto) (Explicit Ver.) | Latto, Jung Kook | | | |
| | LALA | Myke Towers | | | |
| | vampire | Olivia Rodrigo | | | |
| | Cruel Summer | Taylor Swift | | | |
| | WHERE SHE GOES | Bad Bunny | | | |
| | Sprinter | Dave, Central Cee | | | |

➤ Count the total number of tracks by each artist

- `SELECT artist(s)_name as Artist ,count(track_name) as Total_Tracks FROM spotify GROUP BY artist(s)_name;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-------------------|--------------|--------------|---------|--------------------|
| | Artist | Total_Tracks | | | |
| ▶ | Latto, Jung Kook | 1 | | | |
| | Myke Towers | 1 | | | |
| | Olivia Rodrigo | 7 | | | |
| | Taylor Swift | 34 | | | |
| | Bad Bunny | 19 | | | |
| | Dave, Central Cee | 1 | | | |

➤ Find all tracks that belong to the album type single

- `SELECT track_name, `artist(s)_name` as Artist FROM spotify WHERE artist_count=1 ;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|----------------|----------------|--------------|---------|--------------------|
| | track_name | Artist | | | |
| ▶ | LALA | Myke Towers | | | |
| | vampire | Olivia Rodrigo | | | |
| | Cruel Summer | Taylor Swift | | | |
| | WHERE SHE GOES | Bad Bunny | | | |
| | Columbia | Quevedo | | | |
| | fukumean | Gunna | | | |

➤ Calculate the average danceability of tracks in each album

- SELECT track_name, avg(`danceability_%`) as Avg_danceability FROM spotify GROUP BY track_name;

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-------------------------------------|------------------|--------------|---------|--------------------|
| | track_name | Avg_danceability | | | |
| ▶ | Seven (feat. Latto) (Explicit Ver.) | 80.0000 | | | |
| | LALA | 71.0000 | | | |
| | vampire | 51.0000 | | | |
| | Cruel Summer | 55.0000 | | | |
| | WHERE SHE GOES | 65.0000 | | | |
| | Sprinter | 92.0000 | | | |

➤ Find the top 5 tracks with the highest energy values

- `SELECT track_name,artist(s)_name as Artist,energy_% as Energy FROM spotify ORDER BY energy_% DESC LIMIT 5;`

Result Grid





Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:



| | track_name | Artist | Energy_levels |
|---|---------------------------------------|--------------------------------|---------------|
| ▶ | I'm Good (Blue) | Bebe Rexha, David Guetta | 97 |
| | Murder In My Mind | Kordhell | 97 |
| | That That (prod. & feat. SUGA of BTS) | PSY, Suga | 96 |
| | TÃ~Â¿Ã¿Ã½Ã~Â¿ | dennis, MC Kevin o Chris | 96 |
| | Bombonzinho - Ao Vivo | Israel & Rodolffo, Ana Castela | 95 |

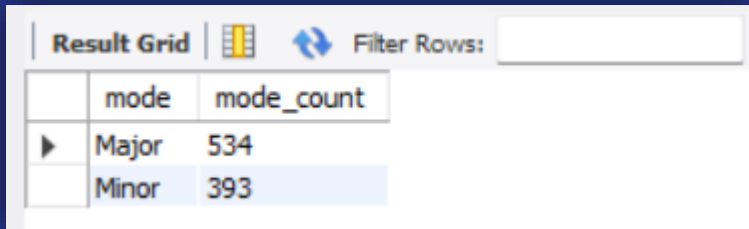
➤ What is the total number of streams for songs released each year

- `SELECT released_year, SUM(streams) AS total_streams FROM spotify
GROUP BY released_year
ORDER BY released_year ASC;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|---------------|---------------|--------------|---------|--------------------|
| | released_year | total_streams | | | |
| ▶ | 1930 | 90598517 | | | |
| | 1942 | 395591396 | | | |
| | 1946 | 389771964 | | | |
| | 1950 | 473248298 | | | |
| | 1952 | 395591396 | | | |
| | 1957 | 919962022 | | | |

➤ How many songs are in major or minor mode?

- `SELECT mode, COUNT(*) AS mode_count FROM spotify GROUP BY mode;`



The screenshot shows a database interface with a 'Result Grid' tab. It contains a table with two columns: 'mode' and 'mode_count'. There are two rows: 'Major' with a count of 534, and 'Minor' with a count of 393. The 'Minor' row is highlighted. Above the table is a 'Filter Rows:' input field.

| | mode | mode_count |
|---|-------|------------|
| ▶ | Major | 534 |
| | Minor | 393 |

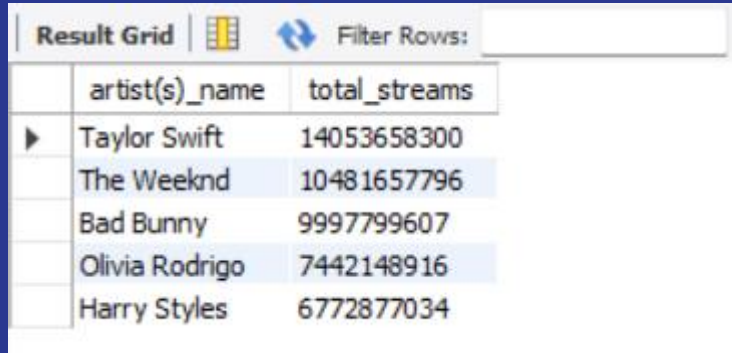
➤ Which platform has most playlists

- ```
SELECT SUM(in_spotify_playlists) AS spotify_count,
SUM(in_apple_playlists) AS apple_count,
SUM(in_deezer_playlists) AS deezer_count
FROM spotify;
```

| Result Grid |               |             |              | Filter Rows: |  | Export: | Wrap Cell Content: |
|-------------|---------------|-------------|--------------|--------------|--|---------|--------------------|
|             | spotify_count | apple_count | deezer_count |              |  |         |                    |
| ▶           | 4352835       | 56148       | 308407       |              |  |         |                    |

## ➤ Which artist have highest total streams

- ```
SELECT artist(s)_name, SUM(streams) AS total_streams FROM spotify  
GROUP BY artist(s)_name  
ORDER BY total_streams DESC LIMIT 5;
```






The screenshot shows a database interface with a 'Result Grid' tab. It contains a table with two columns: 'artist(s)_name' and 'total_streams'. The table lists the top 5 artists by total streams in descending order. The first row is Taylor Swift with 14053658300 streams, followed by The Weeknd with 10481657796 streams, Bad Bunny with 9997799607 streams, Olivia Rodrigo with 7442148916 streams, and Harry Styles with 6772877034 streams.

| | artist(s)_name | total_streams |
|---|----------------|---------------|
| ▶ | Taylor Swift | 14053658300 |
| | The Weeknd | 10481657796 |
| | Bad Bunny | 9997799607 |
| | Olivia Rodrigo | 7442148916 |
| | Harry Styles | 6772877034 |

➤ Which songs have the highest number of streams?

- `SELECT track_name, artist(s)_name, streams FROM spotify ORDER BY streams DESC LIMIT 5;`

| Result Grid   Filter Rows: <input type="text"/> | | | | Export:  | |
|---|-------------------|----------------|------------|---|--|
| | track_name | artist(s)_name | streams | | |
| ▶ | Take Me To Church | Hozier | 2135158446 | | |
| | Circles | Post Malone | 2132335812 | | |
| | Love Yourself | Justin Bieber | 2123309722 | | |
| | All of Me | John Legend | 2086124197 | | |
| | Counting Stars | OneRepublic | 2011464183 | | |

➤ How many songs were released in each year

- `SELECT released_year, COUNT(*) AS song_count FROM spotify
GROUP BY released_year ORDER BY released_year ASC;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|---------------|------------|--------------|---------|--------------------|
| | released_year | song_count | | | |
| ▶ | 1930 | 1 | | | |
| | 1942 | 1 | | | |
| | 1946 | 1 | | | |
| | 1950 | 1 | | | |
| | 1952 | 1 | | | |
| | 1957 | 2 | | | |

➤ How has the average number of streams per song changed over the years

- `SELECT released_year, AVG(streams) AS avg_streams FROM spotify GROUP BY released_year ORDER BY released_year ASC;`

| Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|---------------|----------------|--------------|---------|--------------------|
| | released_year | avg_streams | | | |
| ▶ | 1930 | 90598517.0000 | | | |
| | 1942 | 395591396.0000 | | | |
| | 1946 | 389771964.0000 | | | |
| | 1950 | 473248298.0000 | | | |
| | 1952 | 395591396.0000 | | | |
| | 1957 | 459981011.0000 | | | |