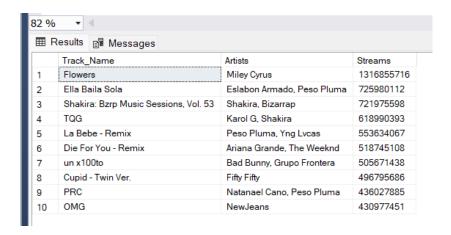
# SPOTSTREAM\_ANALYSIS

INTRO: Welcome to the "Most Streamed Songs of 2023 Data Analysis" project! This project delves into the world of music data to uncover insights into the most streamed songs of 2023. Leveraging the power of SQL queries in Microsoft SQL Server, we explore various aspects such as song popularity, artist performance, and trends within the dataset.

1. Retrieve Top 10 for songs released in 2023.

```
SELECT top 10 track_name AS Track_Name, artist_s_name as Artists, streams As Streams FROM song_data
WHERE released_year = 2023
ORDER BY streams DESC;
```



2. Find the top 5 most recent songs based on their release dates

```
SELECT Top 5 track_name AS Track_Name, artist_s_name As Artists, streams As Streams,

CONCAT(
FORMAT(released_day, '00'),
'-',
FORMAT(released_month, '00'),
'-',
FORMAT(released_year, '0000')
) AS Released_Date

FROM song_data

ORDER BY released_year DESC, released_month DESC, released_day DESC, streams desc;
```



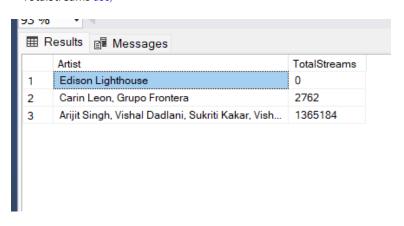
## 3. Find the Song with the highest number of streams.

Select top 1 track\_name AS Track\_name, artist\_s\_name As Artists, streams, released\_year from song\_data order by streams desc;



### 4. Find the artist with the least number of streams on their music.

```
SELECT TOP 3
artist_s_name AS Artist,
SUM(streams) AS TotalStreams
FROM
Song_data
GROUP BY
artist_s_name
ORDER BY
TotalStreams asc;
```



#### 5. Find songs as per high danceability percentage.

```
SELECT top 5
track_name AS Track_Name,
artist_s_name AS Artist,
streams,
danceability AS Danceability
FROM
song_data
ORDER BY
danceability DESC;
```



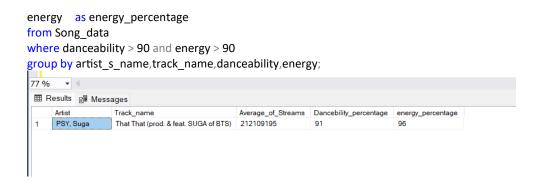
### 6. Find the song popular in Shazam Chart

```
SELECT TOP 1
track_name AS Popular_Deezer_Song,
artist_s_name AS Artist,
in_shazam_charts AS Shazam_Chart_Presence
FROM
song_data
ORDER BY
in_Shazam_charts DESC;
```

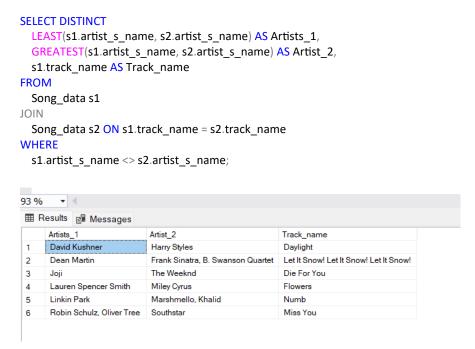


7. Find Artists whose songs have both danceability and energy percentages greater than 90.

```
Select artist_s_name AS Artist,
track_name as Track_name,
AVG(streams) AS Average_of_Streams,
danceability as Dancebility_percentage,
```



8. Identify Songs with the Same Title but Different Artists.



9. Retrieve a list of songs and their recommended tracks for artists whose names end with the letter 's'.

```
WITH RankedSongs AS (

SELECT

artist_s_name,

track_name,

LEAD(track_name, 1) OVER (PARTITION BY artist_s_name ORDER BY track_name) AS Next_track_1,

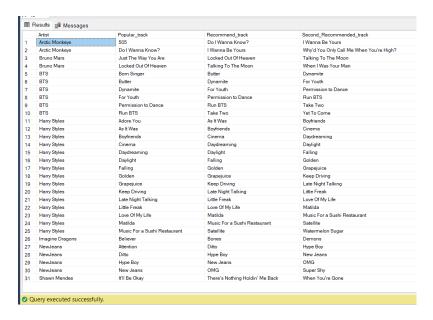
LEAD(track_name, 2) OVER (PARTITION BY artist_s_name ORDER BY track_name) AS Next_track_2

FROM

Song_data
```

```
SELECT DISTINCT

rs.artist_s_name AS Artist,
rs.track_name AS Popular_track,
rs.Next_track_1 AS Recommend_track,
rs.Next_track_2 AS Second_Recommended_track
FROM
RankedSongs rs
WHERE
rs.artist_s_name LIKE '%s'
AND rs.Next_track_1 IS NOT NULL
AND rs.Next_track_2 IS NOT NULL;
```



## 10. Find artist having more than 10 unique songs in 2020 to 2023.

select artist\_s\_name AS Artist,
Count(distinct track\_name) As uniques\_song\_count
from song\_data
where released\_year between 2020 and 2023
group by artist\_s\_name having count(distinct track\_name) > 10
order by 2 desc;



## 11. Find songs based on the average popularity across different charts

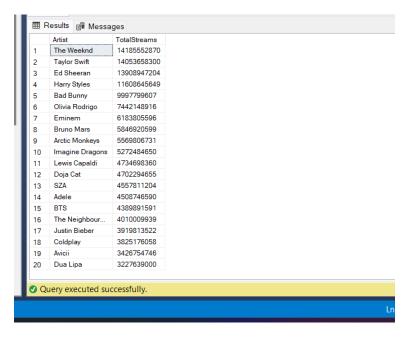
```
SELECT TOP 15

track_name AS Track_Name,
artist_s_name AS Artist,
AVG(in_spotify_charts + in_apple_charts + in_deezer_charts + in_shazam_charts) AS Avg_Popularity
FROM
song_data
GROUP BY
track_name, artist_s_name
ORDER BY
Avg_Popularity DESC;
```



# 12. Find the top 20 artists with the highest total streams on their music.

```
SELECT TOP 20
artist_s_name AS Artist,
SUM(streams) AS TotalStreams
FROM
Song_data
GROUP BY
artist_s_name
ORDER BY
TotalStreams Desc;
```



#### 13. How the monthly trend of streams for the chosen artist

```
SELECT released_year,

DATENAME(MONTH, DATEADD(MONTH, released_month, 0) - 1) as realeased_month,

SUM(streams) AS MonthlyTotalStreams

FROM

song_data

WHERE

artist_s_name= 'Ed Sheeran' and released_year = 2023

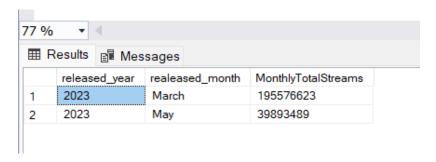
GROUP BY

released_year,

DATENAME(MONTH, DATEADD(MONTH, released_month, 0) - 1)

ORDER BY

released_year ASC,DATENAME(MONTH, DATEADD(MONTH, released_month, 0) - 1)ASC;
```



#### 14. Top 5 Artists with the Most Songs in Spotify and apple Playlists:

```
with songCount as(
select artist_s_name,
Sum(Case when in_spotify_playlists > 0 then 1 else 0 end) as Spotify_playlist_count,
Sum( Case when in_apple_playlists > 0 then 1 else 0 end) Apple_playlist_count
from song_data
```

```
group by artist_s_name
)

select top 5 sc.artist_s_name As Artists,
sum(spotify_playlist_count) As Total_Songs_in_Spotify_playlist,
sum(Apple_playlist_count) As Total_Songs_in_Apple_playlist
from songCount sc
group by artist_s_name , Spotify_playlist_count
order by (SUM(sc.Apple_playlist_count) + SUM(sc.Spotify_playlist_count)) DESC;
```

77 % 🔻 🖪					
	⊞ Results ☐ Messages				
		Artists	Total_Songs_in_Spotify_playlist	Total_Songs_in_Apple_playlist	
	1	Taylor Swift	34	34	
	2	The Weeknd	22	20	
	3	Bad Bunny	19	19	
	4	SZA	19	18	
	5	Harry Styles	17	17	