

SCHEMA

TABLE NAME: SPOTIFY

Column	Type
◇ track_name	text
◇ artist_name	text
◇ artist_count	int
◇ released_year	int
◇ released_month	int
◇ released_day	int
◇ spotify_playlists	int
◇ spotify_charts	int
◇ streams	int
◇ apple_playlists	int
◇ apple_charts	int
◇ deezer_playlists	int
◇ deezer_charts	int
◇ shazam_charts	int
◇ bpm	int
◇ key	text
◇ mode	text
◇ danceability_%	int
◇ valence_%	int
◇ energy_%	int
◇ acousticness_%	int
◇ instrumentalness_%	int
◇ liveness_%	int
◇ speechiness_%	int

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Q1) What are the top 10 tracks with the highest number of streams?

```
SELECT track_name, artist_name, streams
FROM SPOTIFY ORDER BY streams
DESC
LIMIT 10;
```

track_name	artist_name	streams
Circles	Post Malone	2132335812
Levitating (feat. DaBaby)	Dua Lipa, DaBaby	1802514301
No Role Modelz	J. Cole	1791000570
Dakiti	Bad Bunny, Jhay Cortez	1763363713
When I Was Your Man	Bruno Mars	1661187319
Die For You	The Weeknd	1647990401
Before You Go	Lewis Capaldi	1608045237
Every Breath You Take - Remastered 2003	The Police	1593270737
Save Your Tears	The Weeknd	1591223784
Kiss Me More (feat. SZA)	SZA, Doja Cat	1575467011

Q2) Which artist has the most tracks in the dataset, and how many tracks do they have?

```
SELECT artist_name, count(track_name) AS Total_Tracks FROM SPOTIFY  
GROUP BY artist_name  
ORDER BY count(track_name) DESC  
LIMIT 1;
```

artist_name	Total_Tracks
Taylor Swift	33

Q3) How many tracks were released each year?

```
SELECT released_year, count(track_name) AS Total_Tracks FROM SPOTIFY  
GROUP BY released_year  
ORDER BY released_year DESC;
```

released_year	Total_Tracks
2023	170
2022	398
2021	102
2020	30
2019	26
2018	7
2017	13
2016	11
2015	7
2014	7
2013	5
2012	5
2011	5
2010	5
2007	1
2005	1
2004	2
2000	2

Q4) What percentage of tracks are included in Spotify, Apple, and Deezer playlists?

```
SELECT
    ROUND((SUM(spotify_playlists) / COUNT(spotify_playlists)) * 100, 2) AS `Spotify_%`,
    ROUND((SUM(apple_playlists) / COUNT(apple_playlists)) * 100, 2) AS `Apple_%`,
    ROUND((SUM(deezer_playlists) / COUNT(deezer_playlists)) * 100, 2) AS `Deezer_%`
FROM spotify;
```

Spotify_%	Apple_%	Deezer_%
305983.17	4859.20	9425.06

Q5) What is the average BPM (beats per minute) of tracks released in each year?

```
SELECT released_year, avg(bpm) as Avg_BPM FROM spotify  
GROUP BY released_year  
ORDER BY released_year desc;
```

released_year	Avg_BPM
2023	124.3647
2022	121.9849
2021	123.3529
2020	119.0333
2019	121.6538
2018	122.4286
2017	124.9231
2016	127.5455
2015	128.8571
2014	100.4286
2013	128.0000
2012	152.4000
2011	131.2000
2010	123.2000
2007	140.0000
2005	93.0000
2004	95.5000
2000	125.0000

Q6) What are the Top 5 Most Streamed Tracks Released in Each Year?

```
SELECT s1.track_name, s1.artist_name, s1.streams, s1.released_year FROM spotify s1
WHERE (
    SELECT COUNT(*)
    FROM spotify s2
    WHERE s2.released_year = s1.released_year AND s2.streams > s1.streams
)
< 5
ORDER BY s1.released_year DESC, s1.streams DESC;
```

track_name	artist_name	streams	released_year
Ella Baila Sola	Eslabon Armado, Peso Pluma	725980112	2023
Shakira: Bzrp Music Sessions, Vol. 53	Shakira, Bizarrap	721975598	2023
TQG	Karol G, Shakira	618990393	2023
La Bebe - Remix	Peso Pluma, Yng Lvcas	553634067	2023
Die For You - Remix	Ariana Grande, The Weeknd	518745108	2023
Me Porto Bonito	Chencho Corleone, Bad Bunny	1440757818	2022
Quevedo: Bzrp Music Sessions, Vol. 52	Bizarrap, Quevedo	1356565093	2022
Titi Me Pregunté	Bad Bunny	1264310836	2022
Unholy (feat. Kim Petras)	Sam Smith, Kim Petras	1230675890	2022
La Bachata	Manuel Turizo	1214083358	2022
Kiss Me More (feat. SZA)	SZA, Doja Cat	1575467011	2021
Easy On Me	Adele	1406111294	2021
Yonaguni	Bad Bunny	1260594497	2021
deja vu	Olivia Rodrigo	1256880657	2021
Enemy (with JID) - from the series Arcane	Imagine Dragons, League of Legends	1223481149	2021
Enemy - from the series Arcane League of Legends	Imagine Dragons, League of Legends	1223481149	2021
Levitating (feat. DaBaby)	Dua Lipa, DaBaby	1802514301	2020
Dakiti	Bad Bunny, Jhay Cortez	1763363713	2020
Save Your Tears	The Weeknd	1591223784	2020

Q7) How many tracks are classified as major vs. minor mode?

```
SELECT mode, count(mode) as Total_Mode FROM spotify  
GROUP BY mode  
ORDER BY count(mode) DESC;
```

mode	Total_Mode
Major	471
Minor	355

Q8) Which tracks have consistently appeared in the top charts across Spotify, Apple, and Deezer?

```
SELECT track_name, artist_name FROM spotify
WHERE track_name in (spotify_charts AND apple_charts AND deezer_charts);
```

track_name	artist_name
Dance The Night (From Barbie The Album)	Dua Lipa
Die For You	The Weeknd
(It Goes Like) Nanana - Edit	Peggy Gou
Left and Right (Feat. Jung Kook of BTS)	Charlie Puth, BTS, Jung Kook
Karma	Taylor Swift
Until I Found You (with Em Beihold) - Em Beihold...	Em Beihold, Stephen Sanchez
Back To December (Taylor's Version)	Taylor Swift
Fast Car	Luke Combs
What It Is (Solo Version)	Doechii
Don't Be Blame	Taylor Swift
Still With You	Jung Kook
Lover	Taylor Swift
Money Trees	Kendrick Lamar, Jay Rock
Tak Segampang Itu	Anggi Marito
No Role Modelz	J. Cole
Queencard	(G)I-DLE
Calling (Spider-Man: Across the Spider-Verse) (...)	Swae Lee, A Boogie Wit da Hoodie, Metro Boomin, NAV
Tere Vaaste (From "Zara Hatke Zara Bachke")	Sachin-Jigar, Shadab Faridi, Altamash Faridi, Amitabh Bhattacharya, Varun Jain
Romantic Homicide	d4vd

Q9) What is the average energy level of tracks by artist?

```
SELECT artist_name,AVG(`energy_%`) as Avg_Energy_Level from spotify  
GROUP BY artist_name;
```

artist_name	Avg_Energy_Level
Latto, Jung Kook	83.0000
Myke Towers	74.0000
Olivia Rodrigo	49.0000
Taylor Swift	56.0909
Bad Bunny	66.7368
Dave, Central Cee	58.0000
Eslabon Armado, Peso Pluma	76.0000
Quevedo	66.5000
Gunna	62.0000
Peso Pluma, Yng Lvcas	48.0000
Bad Bunny, Grupo Frontera	72.0000
NewJeans	75.6667
SZA	52.6842
Fifty Fifty	62.5000
Feid, Young Miko	66.0000
Jimin	77.0000
Gabito Ballesteros, Junior H, Peso Pluma	74.0000
Arctic Monkeys	63.5000
Bizarrap, Peso Pluma	67.0000

Q10) How has the average energy level of tracks changed from year to year?

```
SELECT released_year, AVG(`energy_%`) AS Avg_Energy_Level FROM spotify  
GROUP BY released_year  
ORDER BY released_year DESC;
```

released_year	Avg_Energy_Level
2023	68.7824
2022	63.4573
2021	64.3824
2020	66.4000
2019	58.6923
2018	54.0000
2017	60.6923
2016	60.0000
2015	62.8571
2014	71.7143
2013	66.0000
2012	53.2000
2011	55.0000
2010	70.4000
2007	85.0000
2005	88.0000
2004	75.0000
2000	49.5000

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