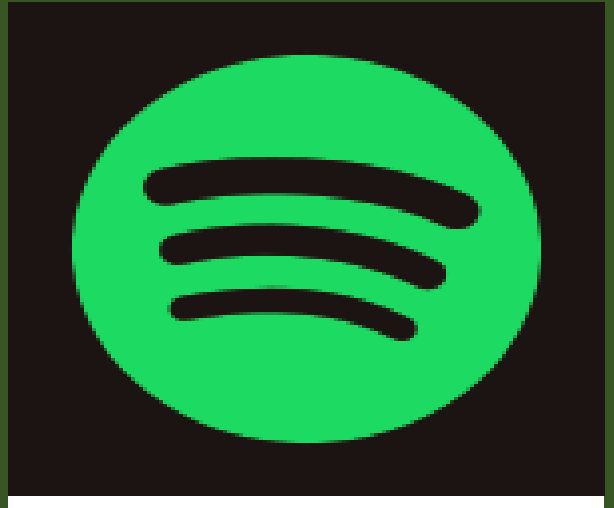


Spotify Songs Album Analysis



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Utilized MySQL for comprehensive Spotify song album analysis. Extracted and processed data to unveil trends in genres, artists, and popularity metrics. Delivered insights crucial for understanding user preferences and informing strategic decisions. Optimized queries for efficient data retrieval and analysis, enhancing project efficacy and depth.

Important Codes:

```
RENAME TABLE popular_spotify_songs TO T1;
```

```
select* from T1;
```

-- 1. Display all columns from the songs table

```
select * from T1;
```

-- 2. Count the total number of songs

```
SELECT COUNT(*) AS total_songs FROM T1;
```

--3. Find the average duration of songs

```
SELECT AVG(duration_ms) AS avg_duration FROM T1;
```

--4. Total number of artists

```
SELECT COUNT(DISTINCT `artist(s)_name`) AS total_artists FROM T1;
```

--5. Total number of tracks per artist

```
SELECT `artist(s)_name`, COUNT(*) AS total_tracks  
FROM T1  
GROUP BY `artist(s)_name`;
```

--6. Average number of streams per track

```
SELECT AVG(streams) AS avg_streams FROM T1;
```

--7. Total streams per artist

```
SELECT `artist(s)_name`, SUM(streams) AS total_streams  
FROM T1  
GROUP BY `artist(s)_name`;
```

--8. Tracks released by year

```
SELECT released_year, COUNT(*) AS total_tracks  
FROM T1  
GROUP BY released_year  
ORDER BY released_year;
```

--9. Top 10 tracks with the highest streams

```
SELECT track_name, `artist(s)_name`, streams  
FROM T1  
ORDER BY streams DESC
```

LIMIT 10;

--10. Tracks in Spotify playlists

```
SELECT COUNT(*) AS in_spotify_playlists  
FROM T1  
WHERE in_spotify_playlists = 1;
```

--11. Tracks in Apple playlists

```
SELECT COUNT(*) AS in_apple_playlists  
FROM T1  
WHERE in_apple_playlists = 1;
```

--12. Tracks in Spotify charts

```
SELECT COUNT(*) AS in_spotify_charts  
FROM T1  
WHERE in_spotify_charts = 1;
```

--13. Tracks by month

```
SELECT released_month, COUNT(*) AS total_tracks  
FROM T1  
GROUP BY released_month  
ORDER BY released_month;
```

--14. Average artist count per track

```
SELECT AVG(artist_count) AS avg_artist_count FROM T1;
```

--15. Total streams per year

```
SELECT released_year, SUM(streams) AS total_streams  
FROM T1
```

```
GROUP BY released_year  
ORDER BY released_year;
```

--16. Average streams per year

```
SELECT released_year, AVG(streams) AS avg_streams  
FROM T1  
GROUP BY released_year  
ORDER BY released_year;
```

--17. Average streams per month

```
SELECT released_month, AVG(streams) AS avg_streams  
FROM T1  
GROUP BY released_month  
ORDER BY released_month;
```

--18. Distribution of tracks in Spotify playlists by year

```
SELECT released_year, COUNT(*) AS in_spotify_playlists  
FROM T1  
WHERE in_spotify_playlists = 1  
GROUP BY released_year  
ORDER BY released_year;
```

--19. Distribution of tracks in Apple playlists by year

```
SELECT released_year, COUNT(*) AS in_apple_playlists  
FROM T1  
WHERE in_apple_playlists = 1  
GROUP BY released_year  
ORDER BY released_year;
```

--20. Top 10 artists by total streams

```
SELECT `artist(s)_name`, SUM(streams) AS total_streams
FROM T1
GROUP BY `artist(s)_name`
ORDER BY total_streams DESC
LIMIT 10;
```

--21. Tracks in both Spotify and Apple playlists

```
SELECT COUNT(*) AS in_both_playlists
FROM T1
WHERE in_spotify_playlists = 1 AND in_apple_playlists = 1;
```

--22. Tracks with multiple artists

```
SELECT track_name, `artist(s)_name`, artist_count
FROM T1
WHERE artist_count > 1;
```

```
SELECT released_year,
       AVG(track_count) AS avg_tracks_per_artist
FROM (
  SELECT released_year, `artist(s)_name`, COUNT(*) AS track_count
  FROM T1
  GROUP BY released_year, `artist(s)_name`
) AS subquery
GROUP BY released_year;
```