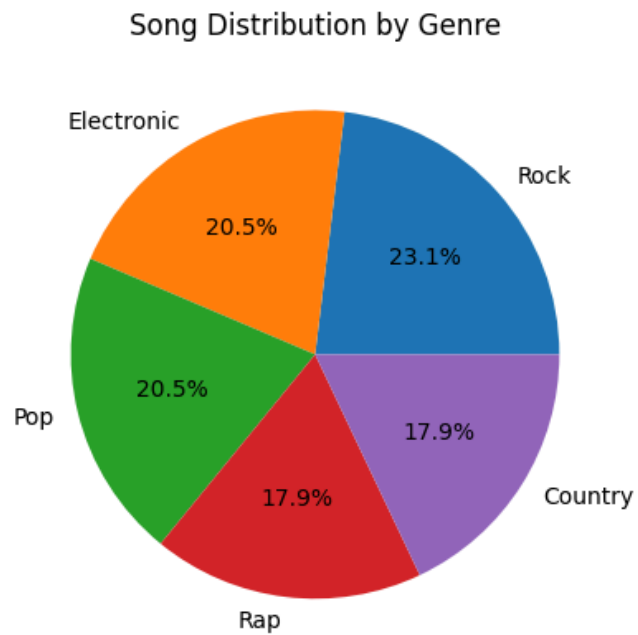


Data Visualizations

1. Pie Chart

```
SELECT g.genre_name,  
COUNT(s.song_id) AS song_count  
FROM  
genres g  
JOIN  
songs s ON g.genre_id = s.genre_id  
GROUP BY  
G.genre_name  
ORDER BY  
song_count DESC;
```

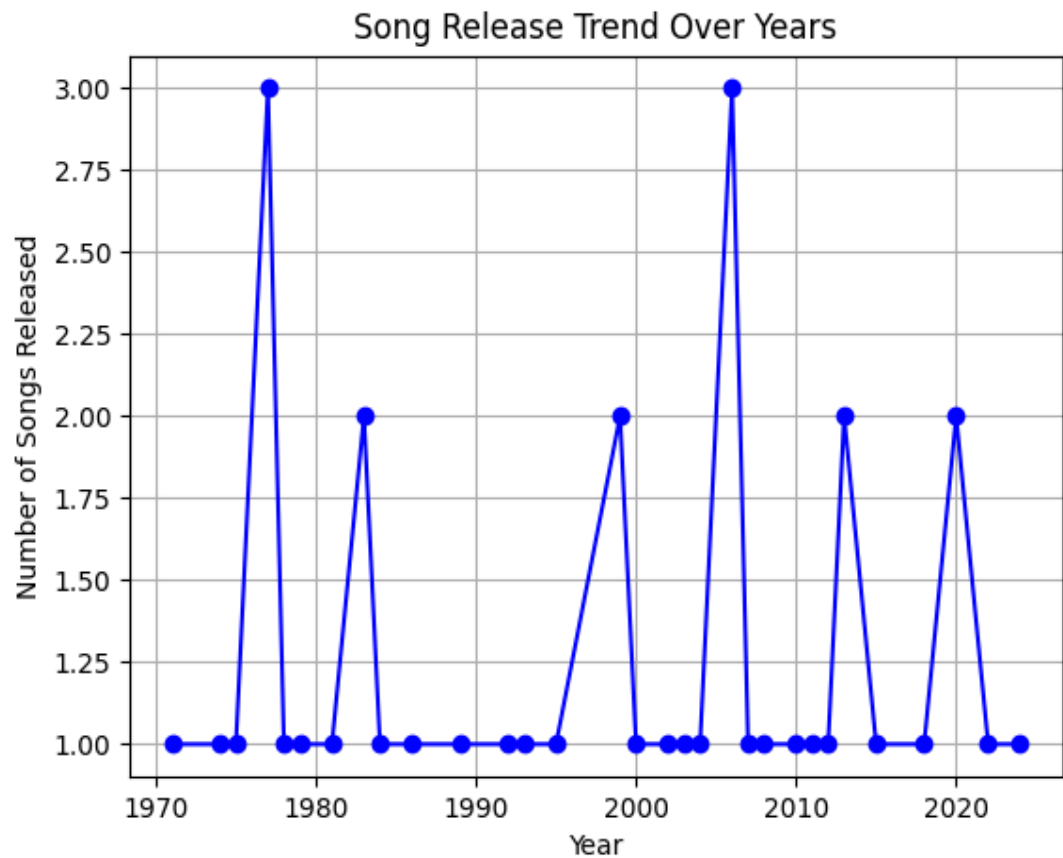


Pie chart : Helps understand the most dominant genres.

- a. **Rock** is the most popular genre, constituting **23.1%** of the total songs.
 - b. **Electronic** and **Pop** each account for **20.5%** of the total songs.
 - c. **Country** and **Rap** are slightly less common, both making up **17.9%** of the songs.
-

2. SELECT

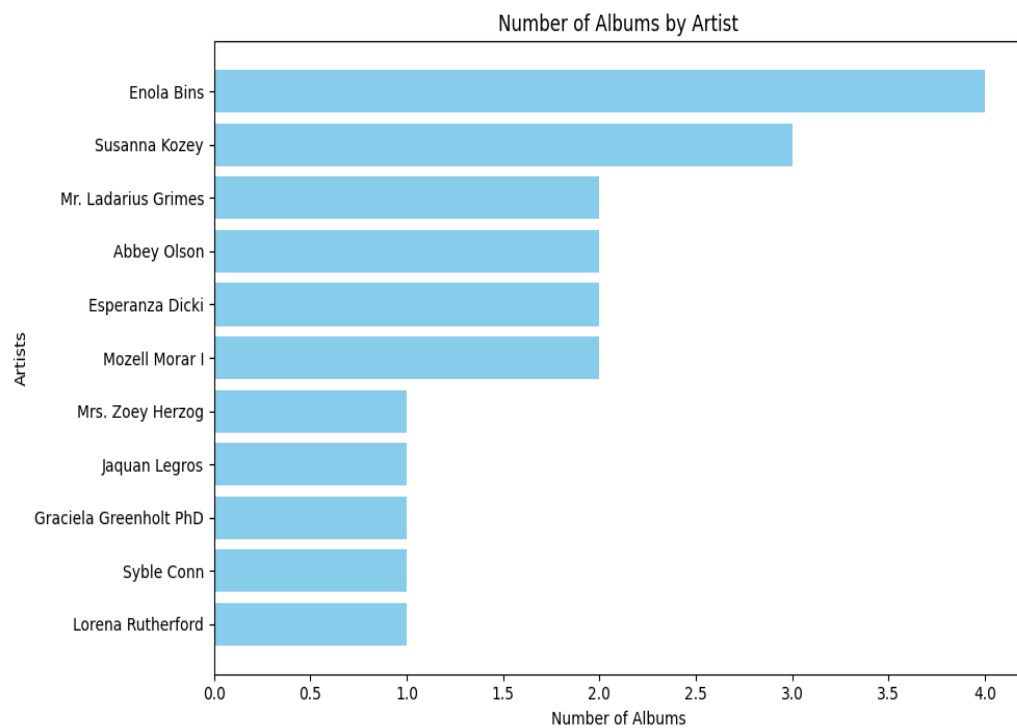
```
YEAR(s.release_date) AS release_year,  
COUNT(s.song_id) AS song_count  
FROM  
songs s  
GROUP BY  
YEAR(s.release_date)  
ORDER BY  
release_year;
```



Line chart : Highlights peaks in song releases during specific years.

- The x-axis represents the year, and the y-axis shows the number of songs released.
- For example, peaks can be observed in the late 1970s, early 2000s, and 2010s, indicating bursts of music production during these times.

```
3.      SELECT
        artist_name,
        COUNT(album_id) AS AlbumCount
      FROM
        Artist a
      JOIN
        Album al
      ON
        a.artist_id = al.artist_id
      GROUP BY
        artist_name
      ORDER BY
        AlbumCount DESC;
```



Bar chart : Reveals prolific artists and their contributions.

- The x-axis represents the number of albums, while the y-axis lists the artists.
- **Enola Bins** has the highest number of albums, followed by **Susanna Kozey**.
- Artists like **Lorena Rutherford** and **Syble Conn** have comparatively fewer albums.