

Digital Music Store Analysis

Overview

The Digital Music Store Analysis project is a comprehensive exploration of database management and data analysis skills applied to the digital music industry. It encompasses the design of a relational database schema tailored for a digital music store, the implementation of SQL queries to extract meaningful insights from the database, and the generation of reports and recommendations based on analytical findings.

Key Components:

- Database Design

- Data Import and Manipulation

- SQL Queries and Analysis

- Reporting and Visualization

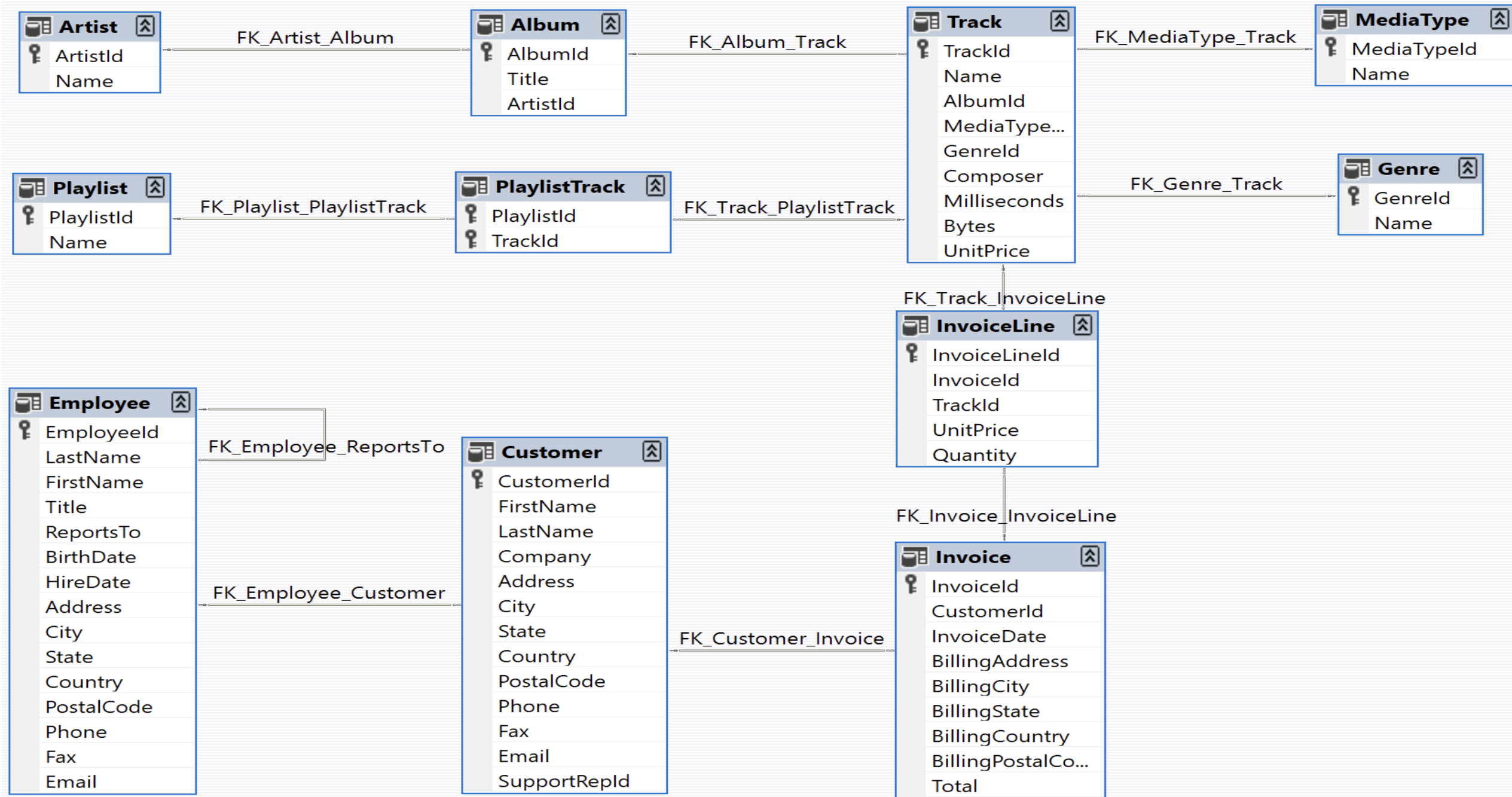
Skills Demonstrated:

- Database Design
- SQL Querying
- Data Import and Manipulation
- Data Analysis and Interpretation
- Report Generation and Presentation
- Critical Thinking and Problem-Solving in Business Contexts

Outcome and Impact:

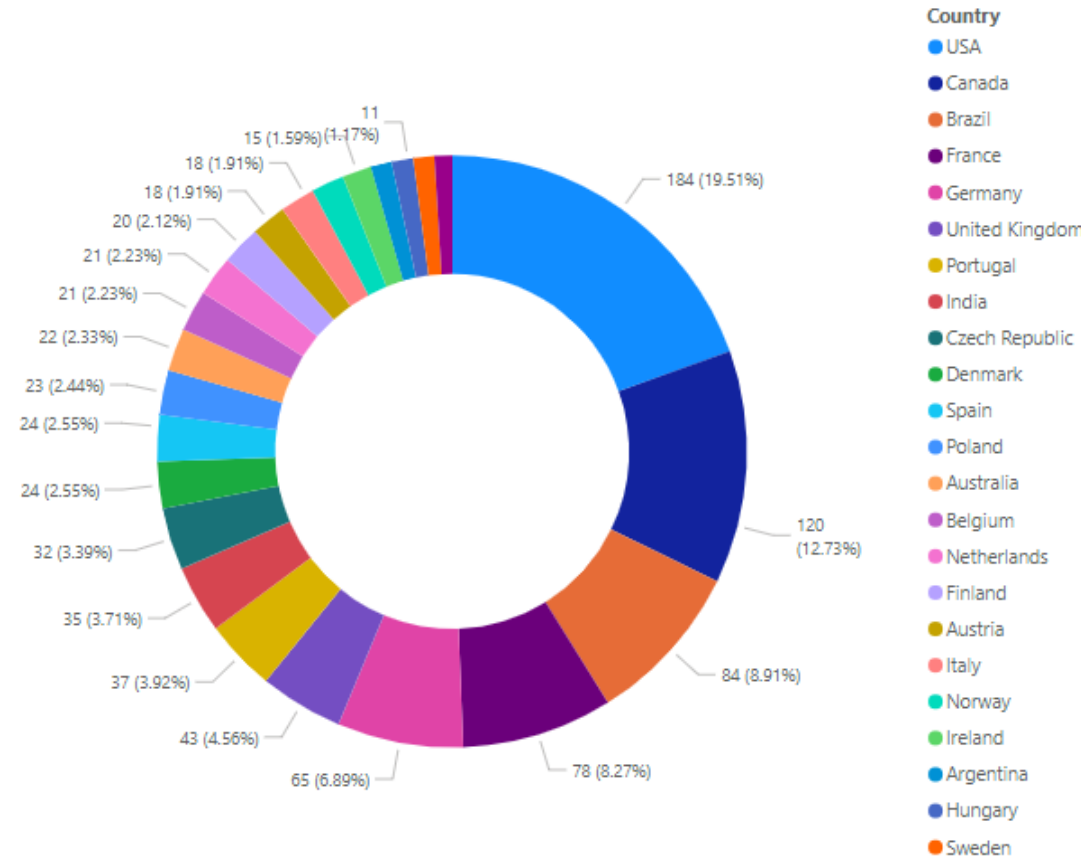
Through this project, proficiency in database management, SQL querying, data analysis, and potentially data visualization is demonstrated. The insights gained from the analysis contribute to informed decision-making within the digital music store environment, Identifying areas for improvement in sales strategies, inventory management, and customer engagement.

Schema



Query) Display name, email id, country of all listeners who love Jazz, Rock and Pop music.

Count of Country by Country



Name	Count of Name	Genre_Name
AaronMitchell	2	Jazz
AaronMitchell	9	Rock
AlexandreRocha	11	Rock
AstridGruber	2	Jazz
AstridGruber	1	Pop
AstridGruber	15	Rock
BjørnHansen	17	Rock
CamilleBernard	2	Jazz
CamilleBernard	13	Rock
DaanPeeters	21	Rock
DanMiller	4	Jazz
DanMiller	10	Rock
DiegoGutiérrez	2	Jazz
DiegoGutiérrez	9	Rock
DominiqueLefebvre	6	Jazz
DominiqueLefebvre	17	Rock
EduardoMartins	29	Rock
EdwardFrancis	2	Jazz
EdwardFrancis	19	Rock
EllieSullivan	19	Rock
EmmaJones	8	Rock
EnriqueMuñoz	2	Jazz
EnriqueMuñoz	22	Rock
FernandaRamos	1	Pop
FernandaRamos	11	Rock
FrançoisTremblay	5	Jazz
FrançoisTremblay	4	Rock
FrankHarris	2	Jazz
Total	943	

Q) Find the employee who has supported the most no of customers.
Display the employee name and designation

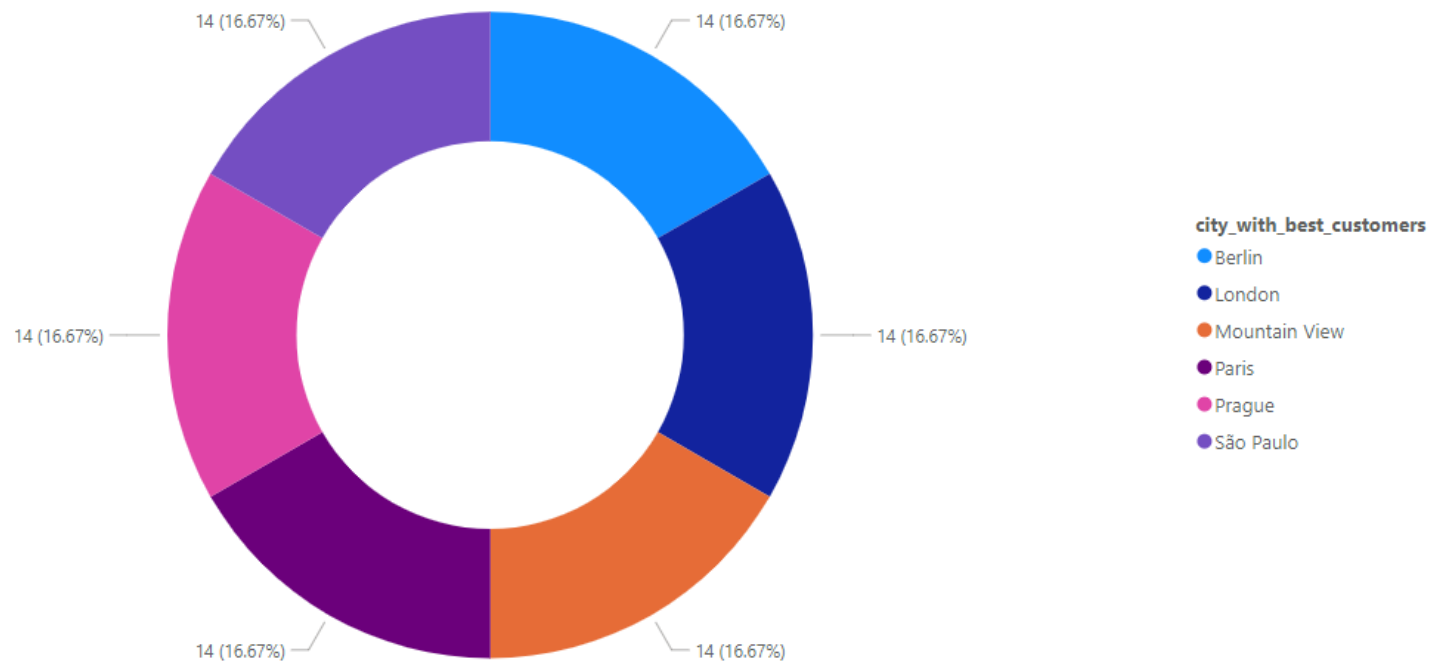
name	employee_id
Jane Peacock	3

Q) Find the artist who has contributed with the maximum no of songs
Display the artist name and the no of albums.

artist_name	no_of_songs
Iron Maiden	213

Q) Which city corresponds to the best customers?

Sum of no_of_customers by city_with_best_customers



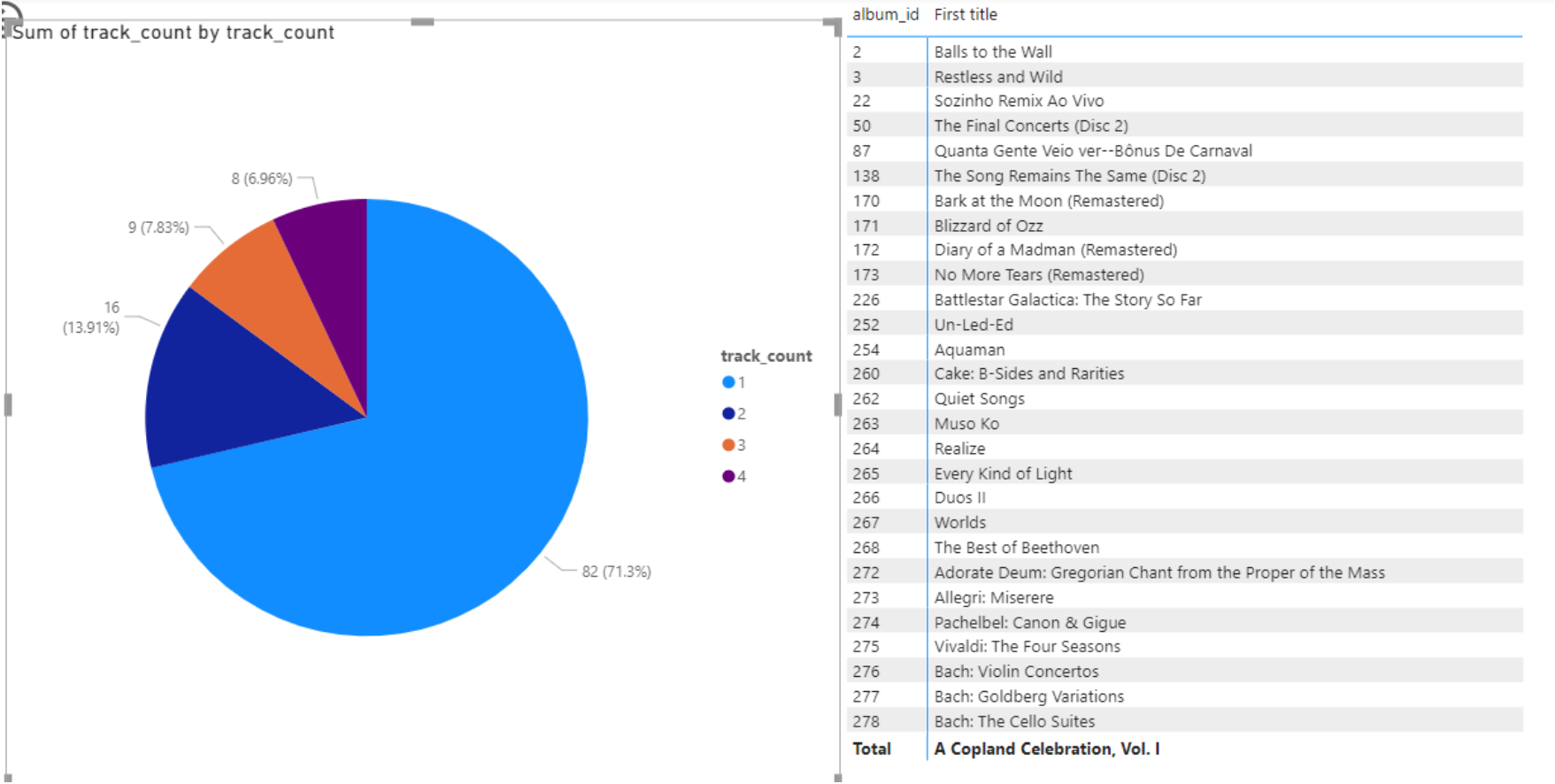
Q) Name the best customer (customer who spent the most money).

best_customer ▼	customer_id ▼	total_money_spent ▼
Helena Holý	6	49.62

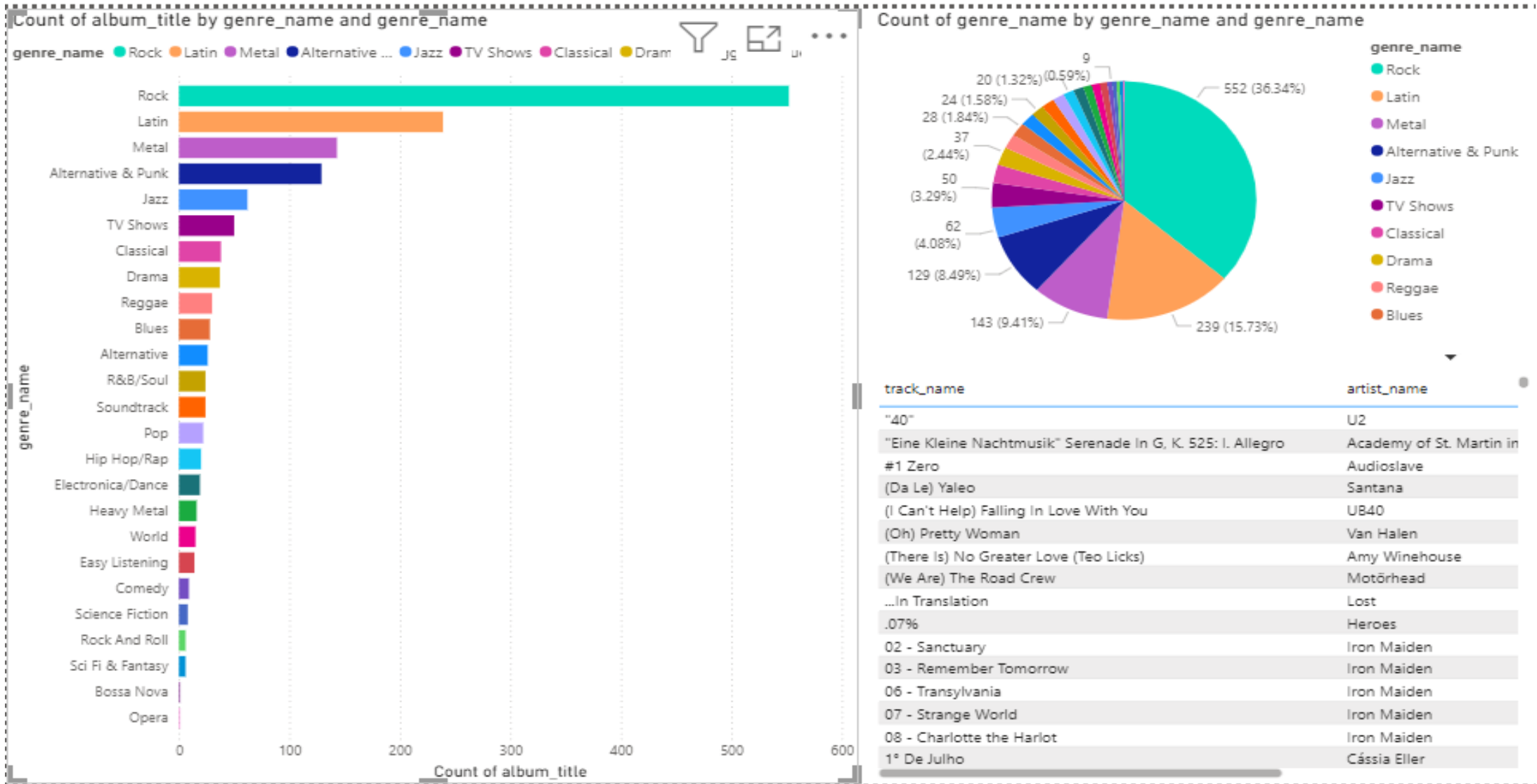
Q) Suppose you want to host a rock concert in a city and want to know which location should host it.

best_city_for_rock_concert ▾	highest_no_of_customers ▾
São Paulo	40

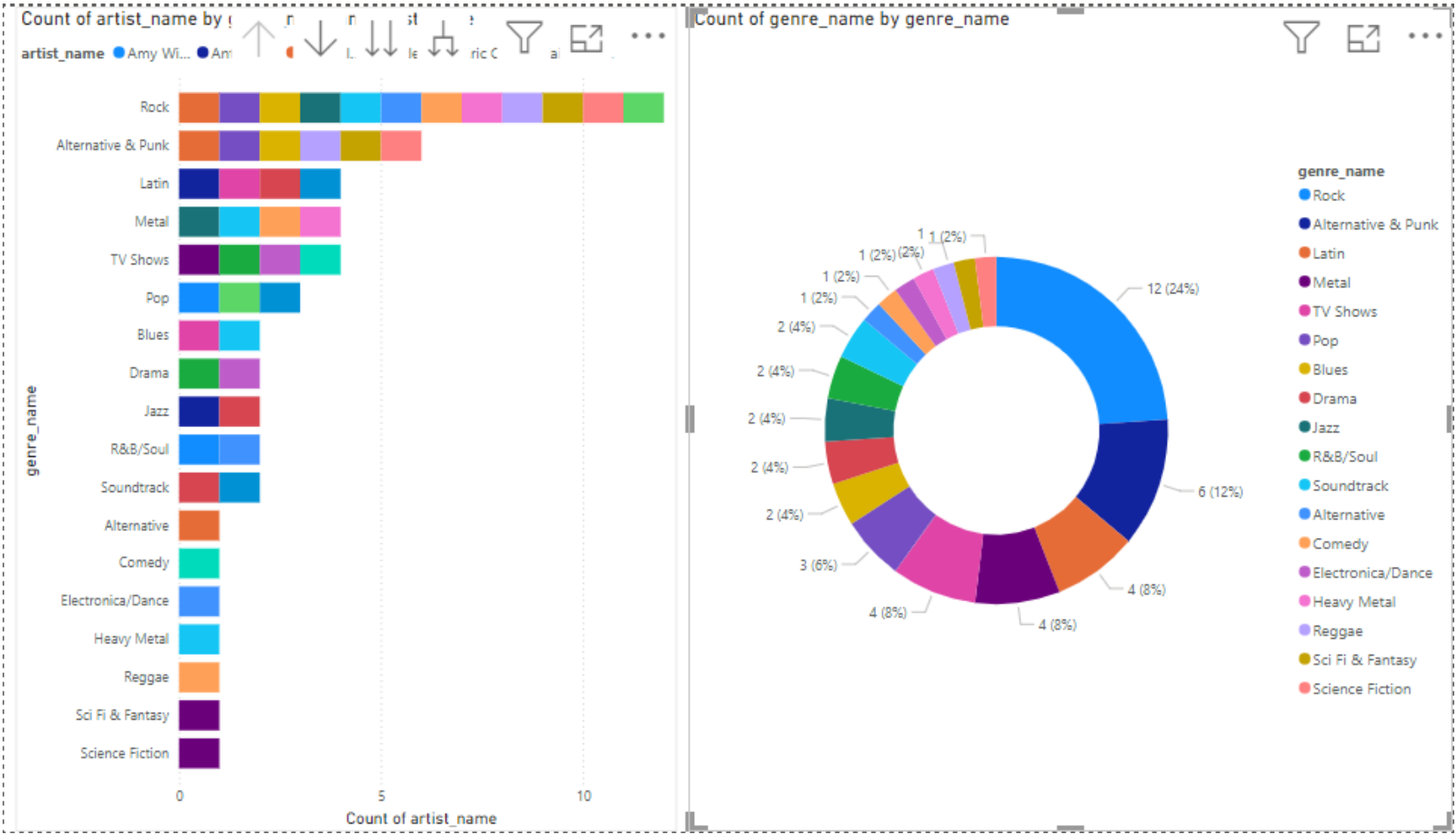
Q) Identify all the albums who have less then 5 track under them.



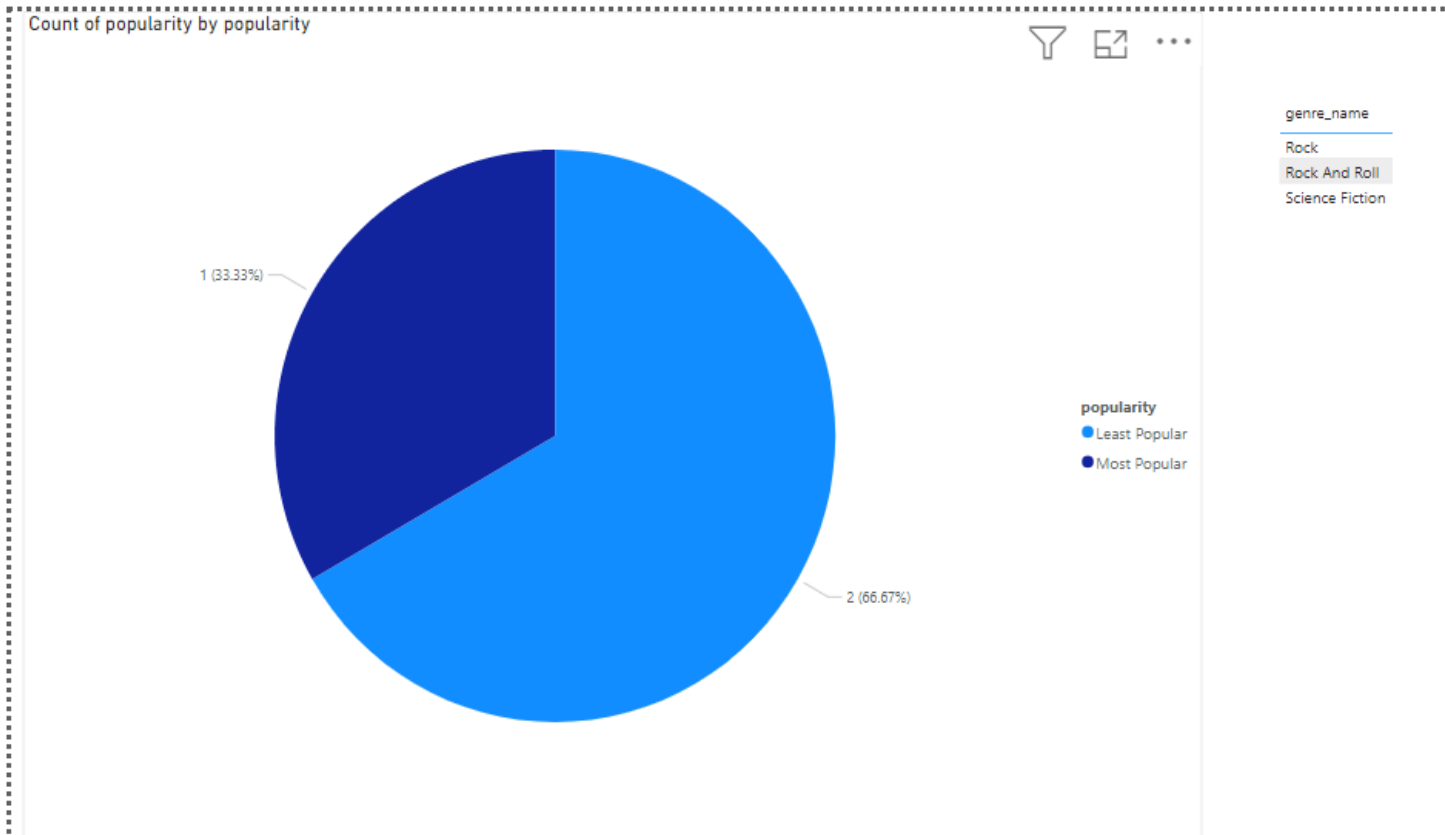
Q) Display the track, album, artist and the genre for all tracks which are not purchased.



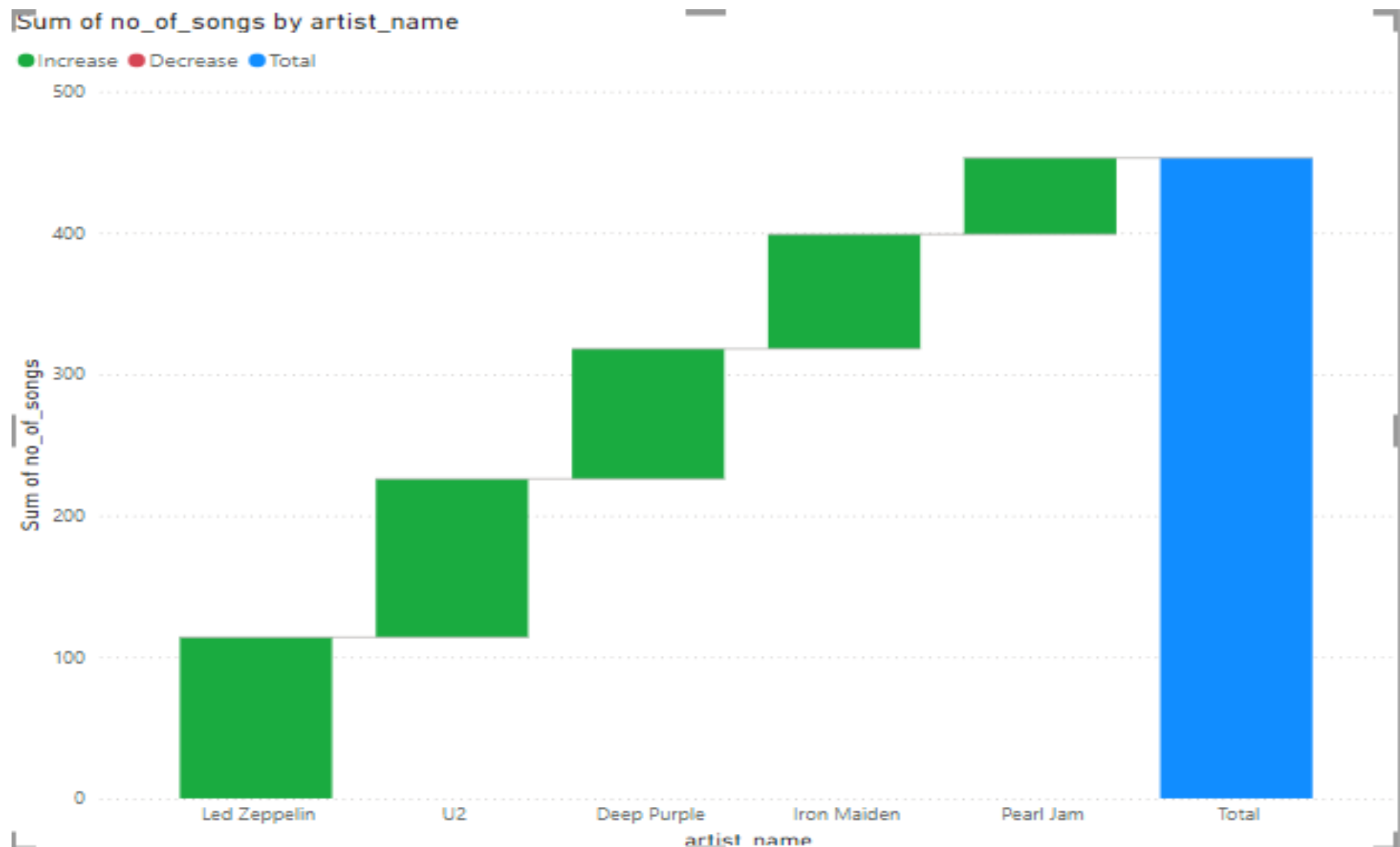
Q) Find artist who have performed in multiple genres. Display the artist name and the genre.



Q) Which is the most popular and least popular genre? (Popularity is defined based on how many times it has been purchased.)



Q) Identify the 5 most popular artist for the most popular genre. Display the artist name along with the no of songs. (Popularity is defined based on how many songs an artist has performed in for the particular genre.)



Conclusion :

- Based on the analysis of the customers and sales in the PostgreSQL digital music store, it was observed that certain customer segments are more likely to make high-value purchases, indicating potential opportunities for targeted marketing or promotions. Additionally, sales performance may be influenced by factors such as the timing of promotional activities, customer acquisition channels, and product preferences. These insights can inform strategic decisions to optimize sales and customer engagement.