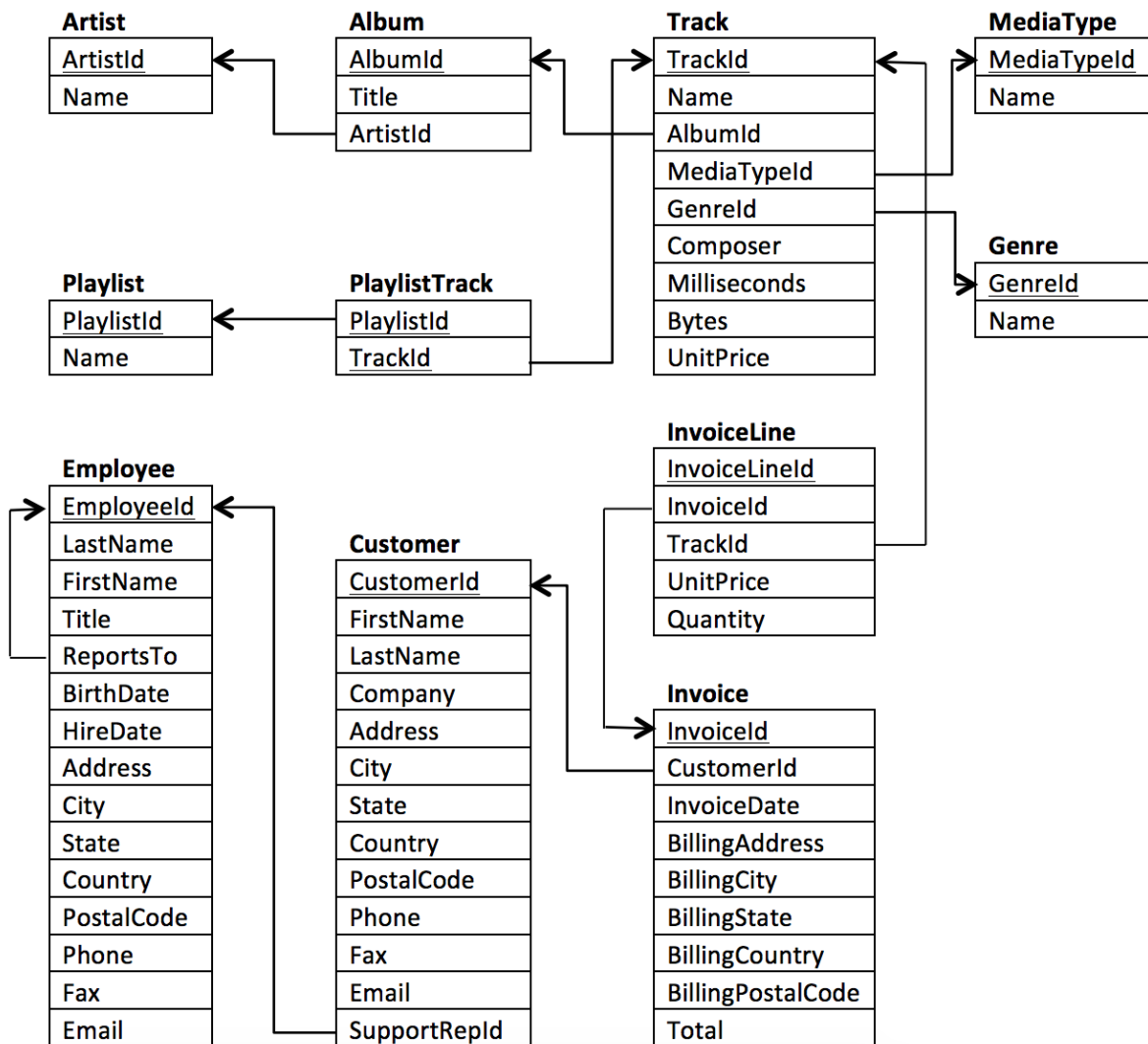


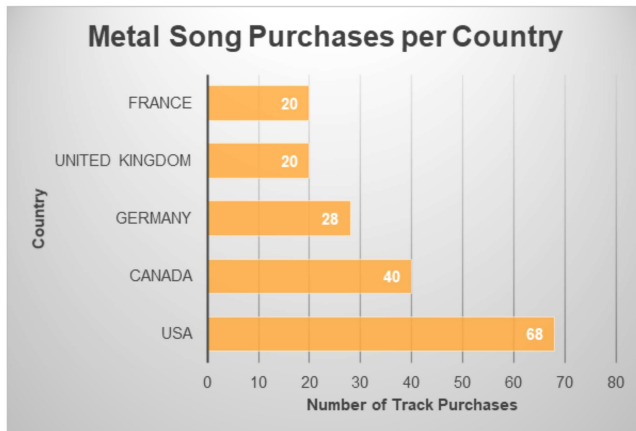
SQL Project: Query a Digital Music Store Database

Introduction

In this project, I used SQLite (DB Browser) to query the Chinook Database, which holds information about a music store. The database includes information about the store media, customers, employees, and invoices. I used four queries to investigate different questions about how the company might optimize business practices. The schema for the Chinook Database is provided below.



Which countries have the most track purchases in the Metal* genre?



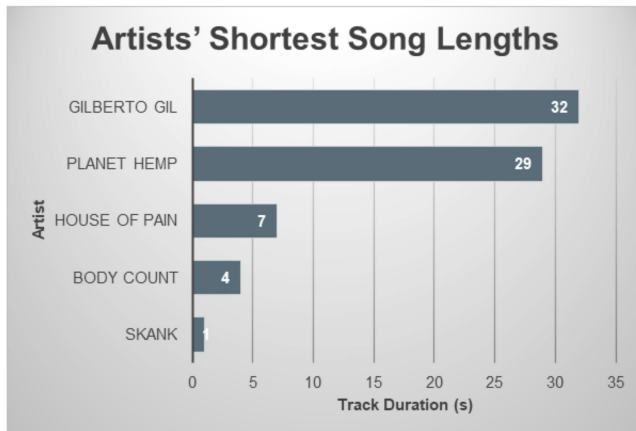
The United States has the most purchases in the Metal genre, at 68 purchases. Canada has the second most, with 40 purchases. The rest of the countries have significantly lower numbers.

However, it must be noted that both the U.S. and Canada also have a higher overall number of purchases, regardless of genre.

*The query includes both GenreID #3, "Metal" and GenreID #13, "Heavy Metal"

```
SELECT c.Country, COUNT(InvoiceLineId) "Metal Track Purchases"
FROM Customer c
JOIN Invoice i
ON c.CustomerId = i.CustomerId
JOIN InvoiceLine il
ON i.InvoiceId = il.InvoiceId
JOIN Track t
ON t.TrackId = il.TrackId
JOIN Genre g
ON g.GenreId = t.GenreId
WHERE g.Name = "Metal" OR g.Name = "Heavy Metal"
GROUP BY 1
ORDER BY 2 DESC
LIMIT 5;
```

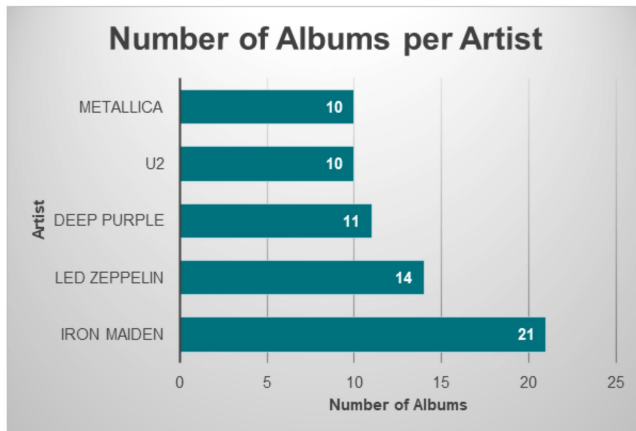
Which artists have the shortest tracks in the Chinook database?



Skank has the shortest track length, at just over 1 second. The five artists with the shortest tracks in the database all have songs under 35 seconds.

```
SELECT a.Name "Artist", MIN(t.Milliseconds)/1000 "Duration (s)"
FROM Track t
JOIN Album al
ON al.AlbumId = t.AlbumId
JOIN Artist a
ON a.ArtistId = al.ArtistId
GROUP BY 1
ORDER BY 2
LIMIT 5;
```

Which artists have the most albums within the Chinook Database?



Iron Maiden has the most albums in the database, with 21 albums. It has 1.5x the number of the artist with the second-most highest number (Led Zeppelin), and at least double the number compared to the rest of the artists in the database.

```
SELECT a.Name "Artist", COUNT(AlbumId) "Number of Albums"
FROM Artist a
JOIN Album al
ON a.ArtistId = al.ArtistId
GROUP BY 1
ORDER BY 2 DESC
LIMIT 5;
```

How much do customers from Brazil spend at this music store?



The 5 customers from Brazil have spent roughly the same amount at the music store. All are in the upper \$30s range, with 4 of them being the same at \$37.62

```
SELECT c.FirstName, c.LastName, SUM(il.Quantity * il.UnitPrice) "USD Spent"
FROM InvoiceLine il
JOIN Invoice i
ON i.InvoiceId = il.InvoiceId
JOIN Customer c
ON c.CustomerId = i.CustomerId
WHERE c.Country = "Brazil"
GROUP BY c.CustomerId
ORDER BY 3 DESC;
```