Music Store:

Data Analysis Project Using SQL





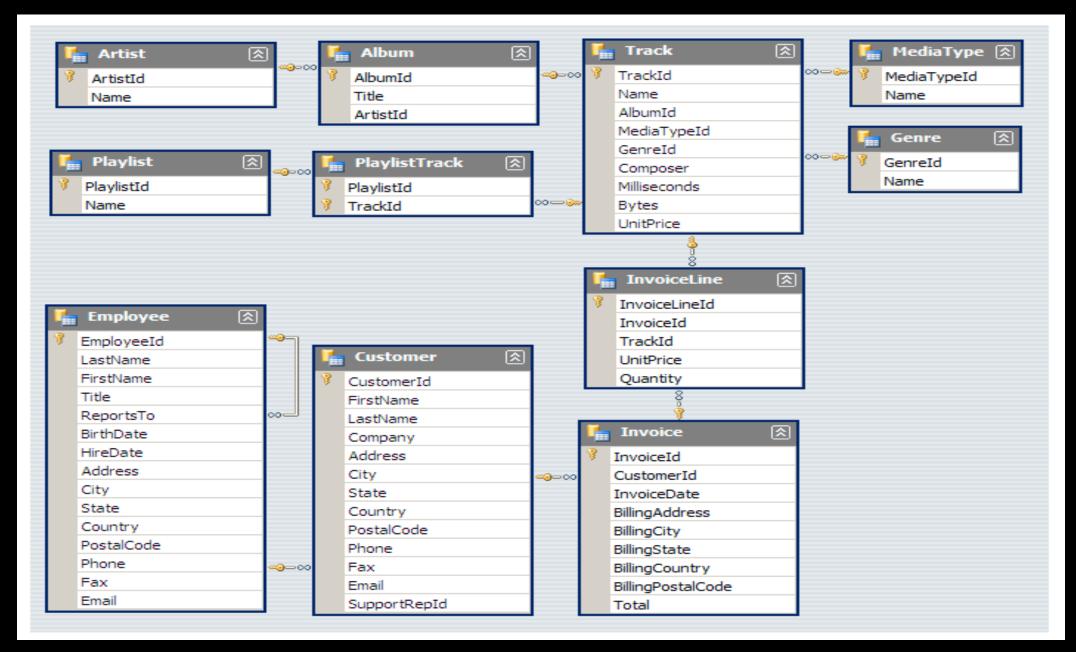




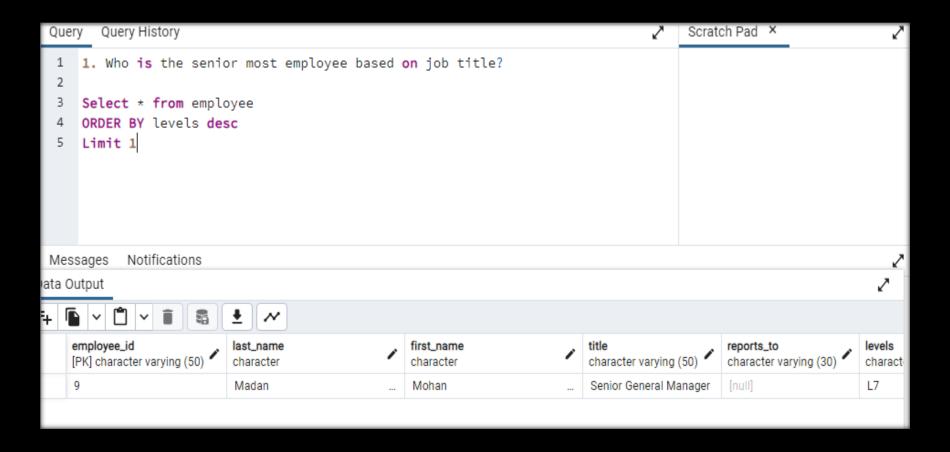
Objective

- Analyse data related to sales, genres, and artists.
- Analyse sales data to understand the distribution of sales across different countries.
- Determine the popularity of music genres and Artist in each country.
- Analyse which genres are most favoured by customers in different geographic locations,
 which can inform inventory selection and marketing efforts.

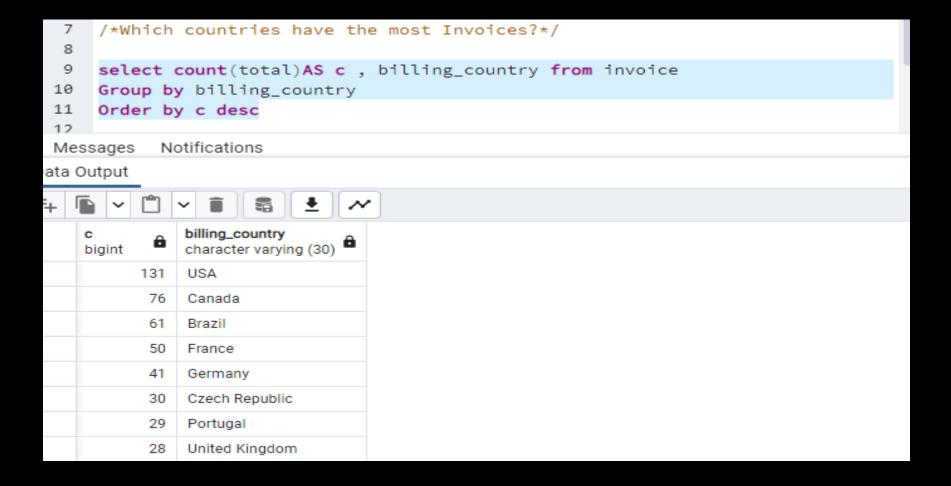
Entity Relationship



Q1- Who is the senior most employee based on job title?



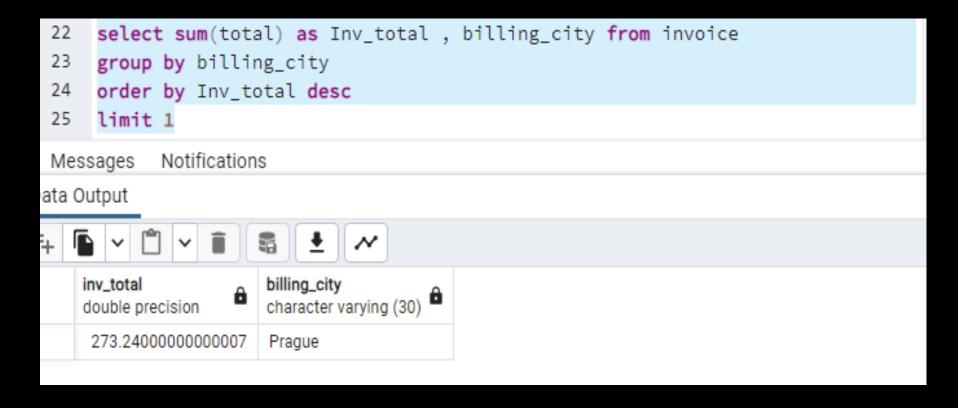
Q2- Which countries have the most Invoices?



Q3-What are top 3 values of total invoice?

```
13
     /*3. What are top 3 values of total invoice?*/
 14
    select total from invoice
 15
     order by total desc
     Limit 3
 16
 Messages
           Notifications
ata Output
    total
                   a
    double precision
     23.759999999999998
                  19.8
                  19.8
```

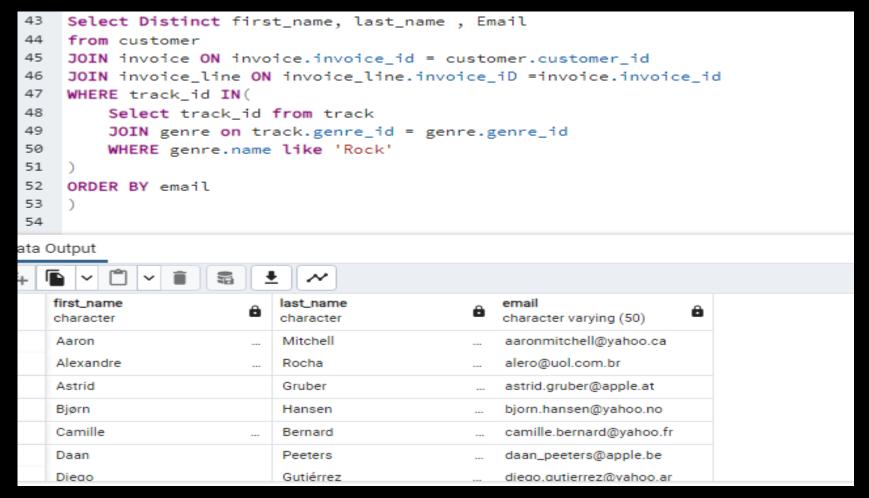
Q4-Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals



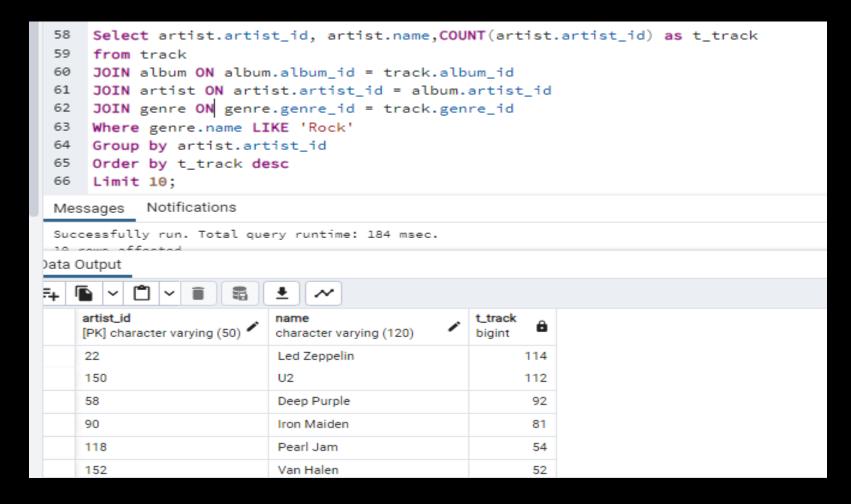
Q5-Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money



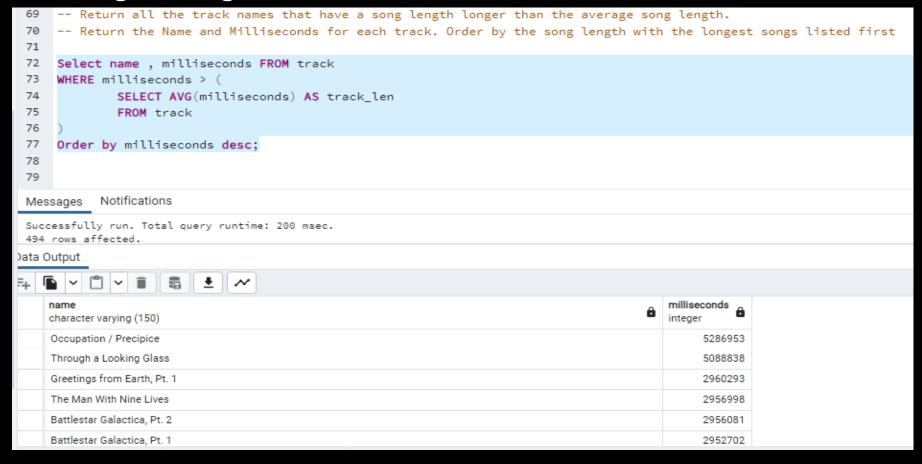
Q6-Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A



Q7-Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands

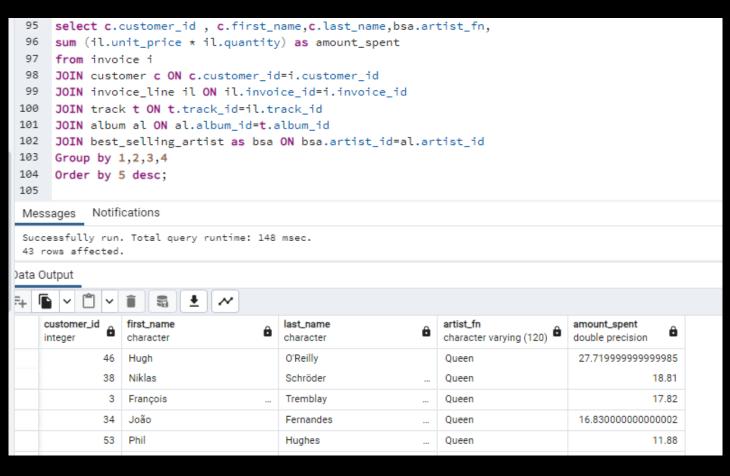


Q8-Return all the track names that have a song length longer than the average song length. Return the Name and Milliseconds for each track. Order by the song length with the longest songs listed first

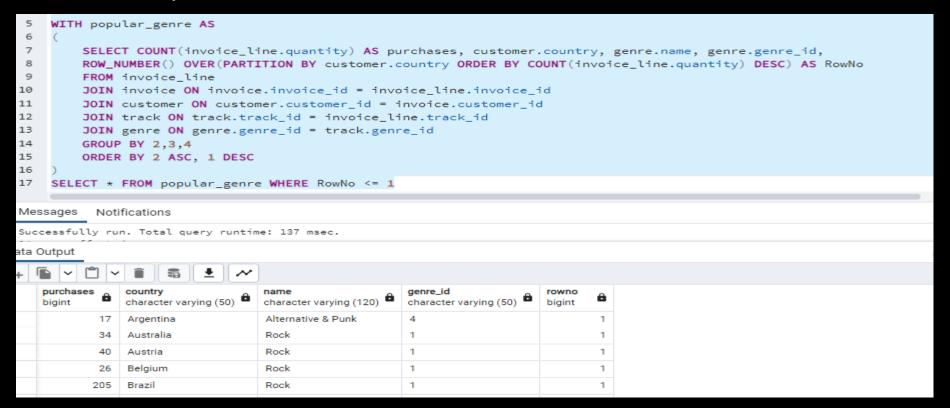


Q9-Find how much amount spent by each customer on artists? Write a query to return customer name, artist name and total spent

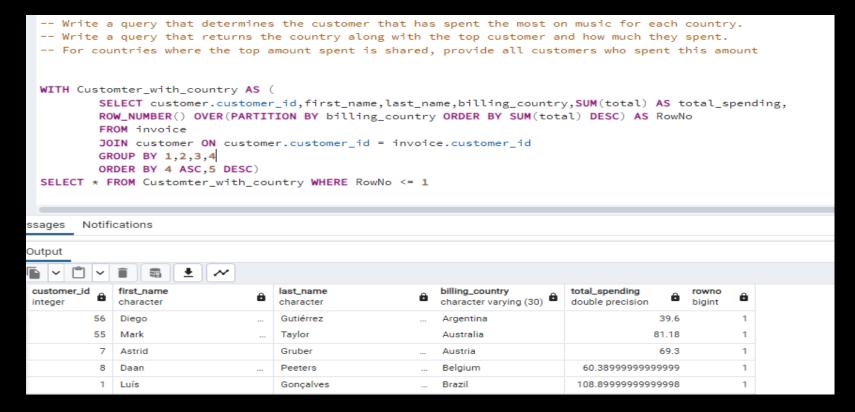
```
WITH best_selling_artist as (
    SELECT artist.artist_id AS artist_id , artist.name AS artist_fn,
    SUM(invoice_line.unit_price * invoice_line.Quantity) AS total_spent
    from invoice_line
    JOIN track ON track.track_id=invoice_line.track_id
    JOIN album ON album.album_id=track.album_id
    JOIN artist ON artist.artist_id=album.artist_id
    GROUP BY 1
    ORDER BY 3 desc
    LIMIT 1
```



Q10-We want to find out the most popular music Genre for each country. We determine the most popular genre as the genre with the highest amount of purchases. Write a query that returns each country along with the top Genre. For countries where the maximum number of purchases is shared return all Genres



Q11-Write a query that determines the customer that has spent the most on music for each country. Write a query that returns the country along with the top customer and how much they spent. For countries where the top amount spent is shared, provide all customers who spent this amount



Thank You