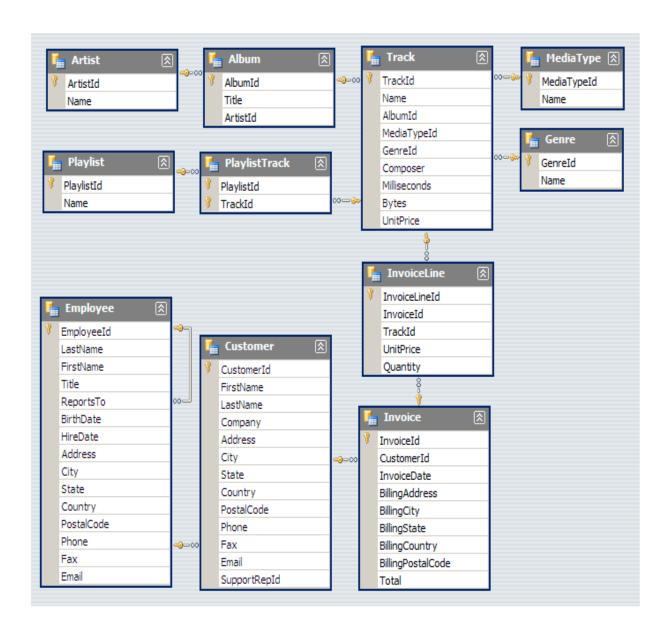
Music Store Data Analysis Project using SQL

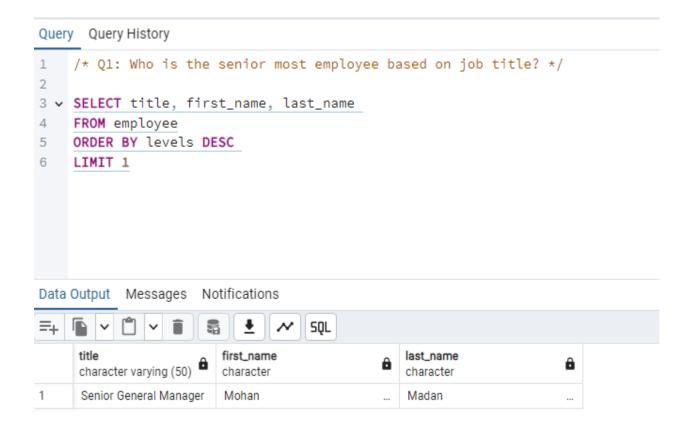


Objective

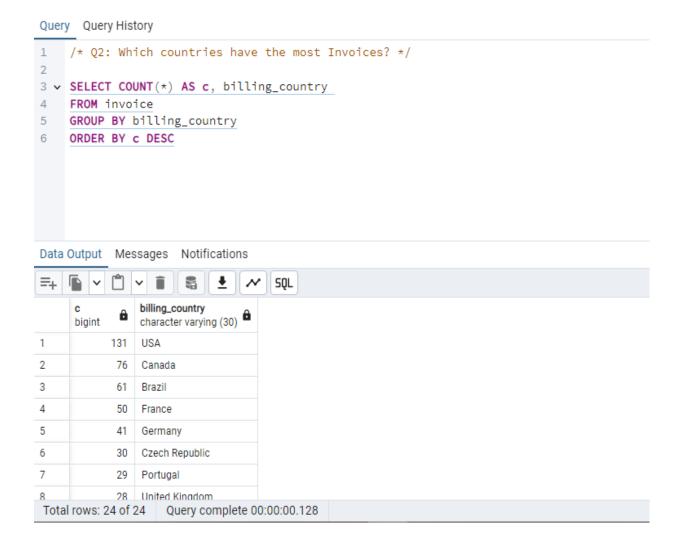
- . Analyse data relate to sales, genres and artists.
- . Analyse sales data to understand the distribution of sales across different countries.
- . Determine the popularity of music genres and Artist in each country.
- . Analyse which genres are most favoured by customers in different geographic locations,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



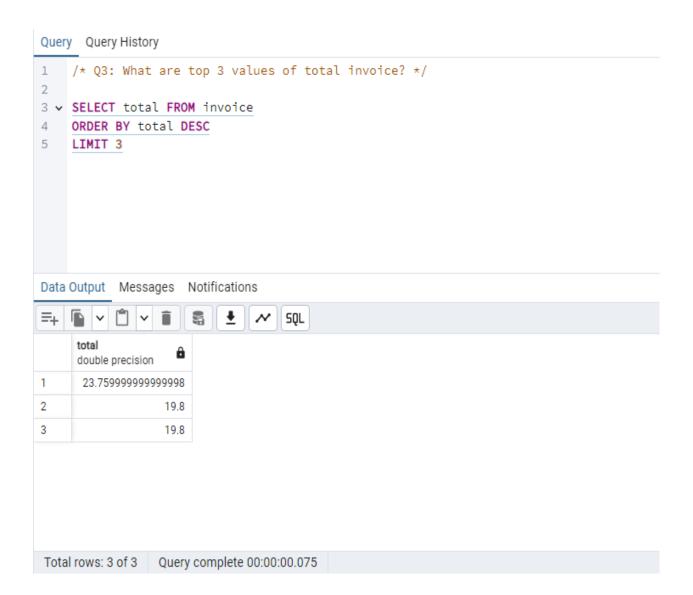
Q1- Who is the senior most employee based on job title?



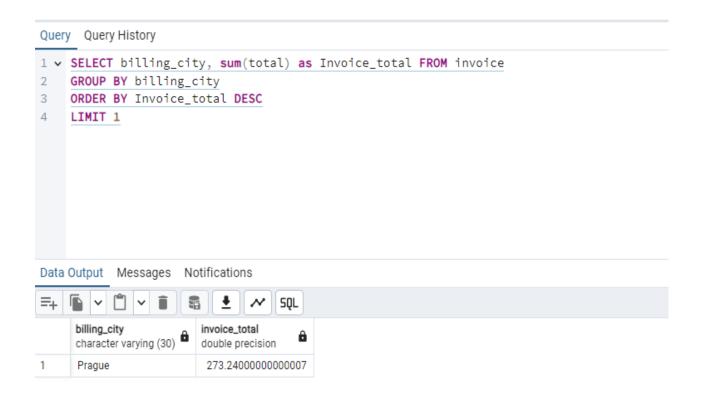
Q2- Which countries have the most Invoices?



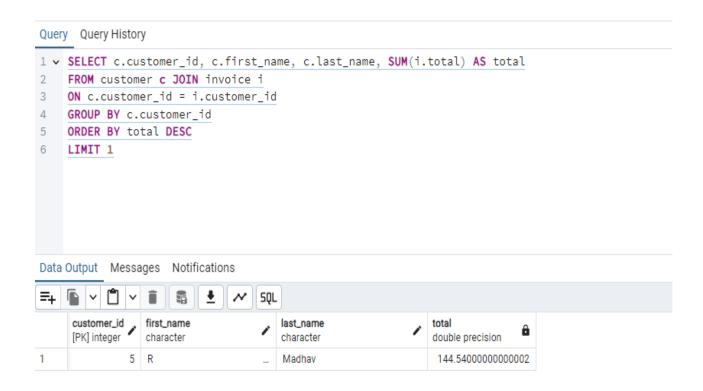
Q3-What are top 3 values of total invoice?



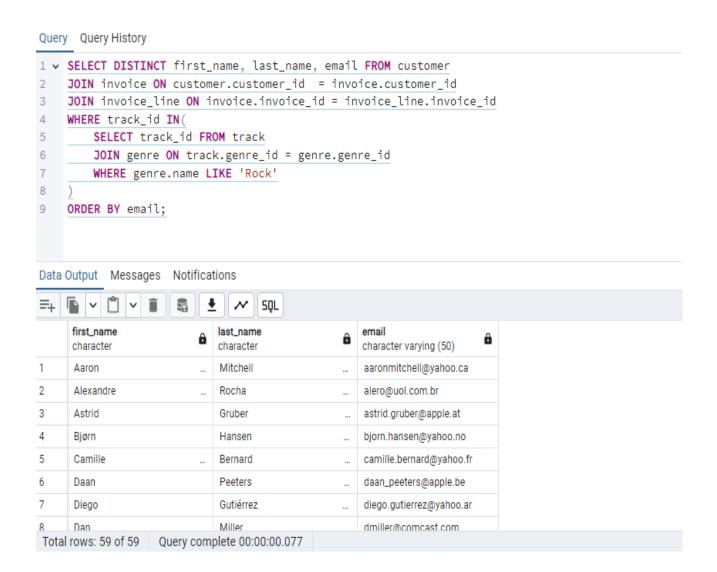
Q4-Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals



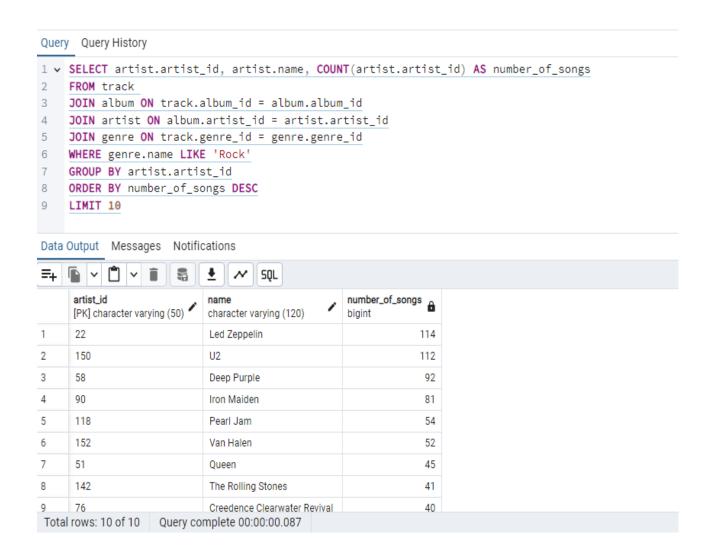
Q5-Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money



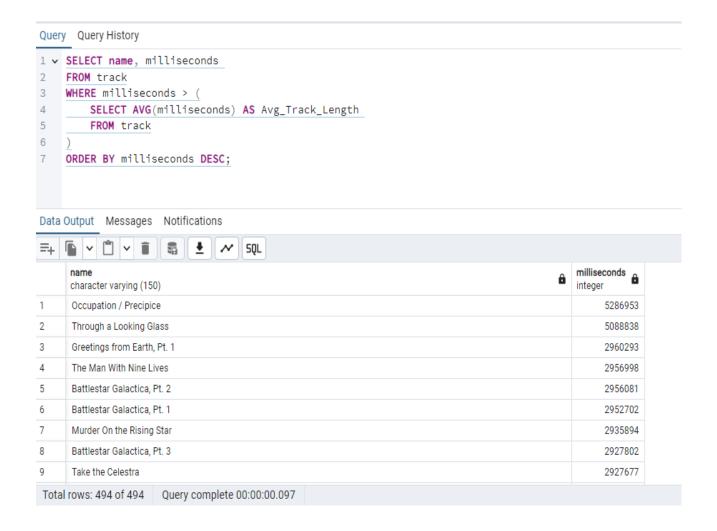
Q6-Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A



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

Query Query History

```
1 ∨ WITH best_selling_price AS(
         SELECT artist_artist_id, artist_name AS artist_name,
3
         SUM(invoice_line.unit_price * invoice_line.quantity) AS total_sales
4
         FROM invoice_line
 5
         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
 7
8
         GROUP BY 1
9
         ORDER BY 3 DESC
10
         LIMIT 1
11
12
     SELECT C.customer_id, C.first_name, C.last_name, bsp.artist_name,
     SUM(il.unit_price * il.quantity) AS amount_spent
13
14
     FROM invoice i
15
     JOIN customer C ON C.customer_id = i.customer_id
     JOIN invoice_line il ON il.invoice_id = i.invoice_id
     JOIN track t ON t.track_id = il.track_id
17
     JOIN album alb ON alb.album_id = t.album_id
18
     JOIN best_selling_price bsp ON bsp.artist_id = alb.artist_id
   GROUP BY 1,2,3,4
   ORDER BY 5 DESC;
21
```

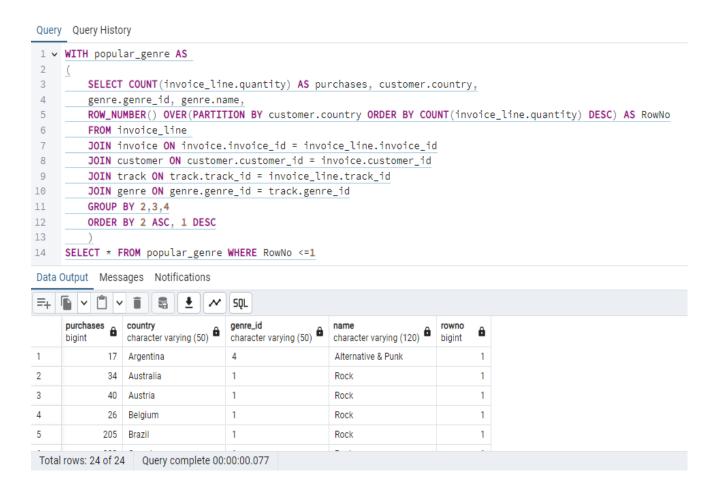
Query Query History

Data Output Messages Notifications

=+	□ ∨ □ ∨	1 1 1 1 1 1 1 1 1 1			
	customer_id integer	first_name character	last_name character	artist_name character varying (120)	amount_spent double precision
1	46	Hugh	O'Reilly	Queen	27.719999999999985
2	38	Niklas	Schröder	Queen	18.81
3	3	François	Tremblay	Queen	17.82
4	34	João	Fernandes	Queen	16.8300000000000002
5	53	Phil	Hughes	Queen	11.88
6	41	Marc	Dubois	Queen	11.88
7	47	Lucas	Mancini	Queen	10.89
8	33	Ellie	Sullivan	Queen	10.89
9	20	Dan	Miller	Queen	3.96
10	5	R	Madhav	Queen	3.96
11	23	John	Gordon	Queen	2.969999999999998
12	54	Steve	Murray	Queen	2.969999999999998
13	31	Martha	Silk	Queen	2.969999999999998
14	16	Frank	Harris	Queen	1.98
15	17	Jack	Smith	Queen	1.98
16	24	Frank	Ralston	Queen	1.98
17	30	Edward	Francis	Queen	1.98
T-4-	1 0 0 10	O	70		

Total rows: 43 of 43 Query complete 00:00:00.070

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

