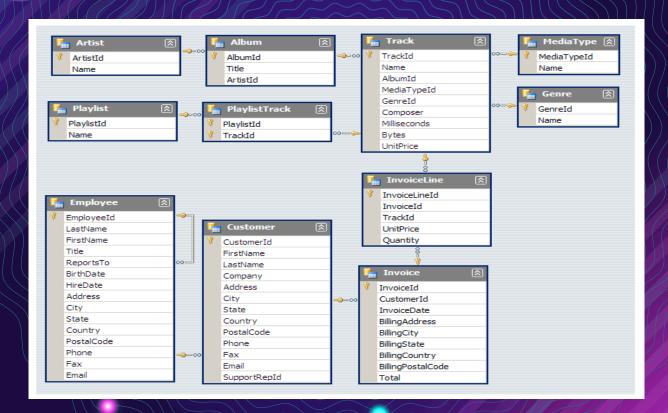


OBJECTIVE

- The primary objective of the music store is to achieve sustainable business growth while addressing existing challenges.
- We need to examine the dataset with SQL and help the music store understand its business growth by answering simple questions

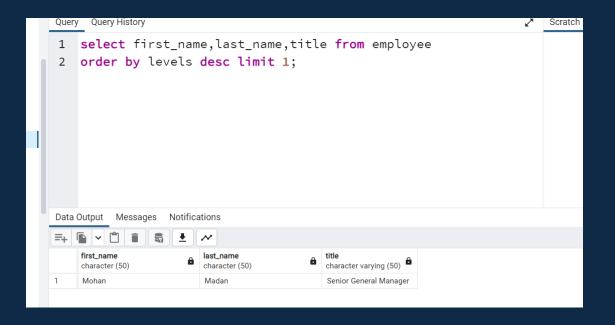


TABLE SCHEMA

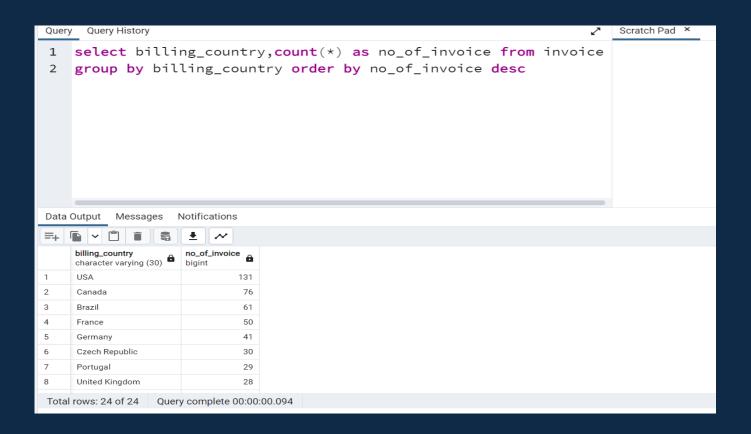


SQL Analysis with their Output

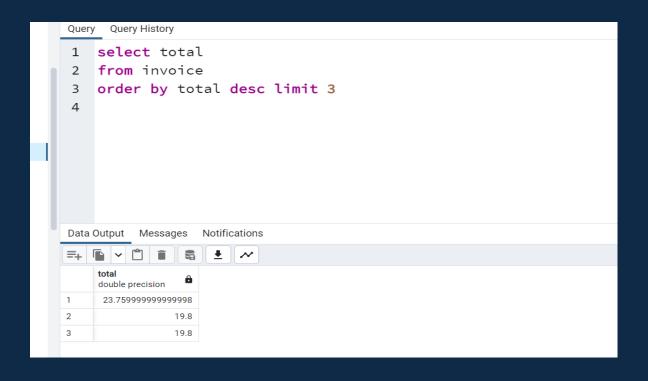
Q1. Who is the senior most employee based on job title?



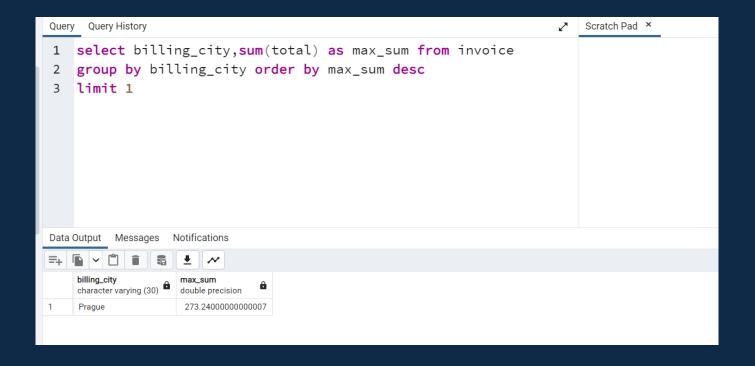
Q2 Which countries have the most Invoices?



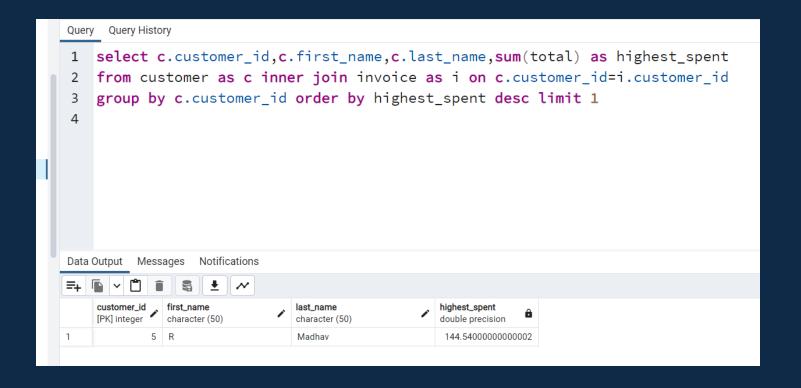
Q3 What are top 3 values of total invoice?



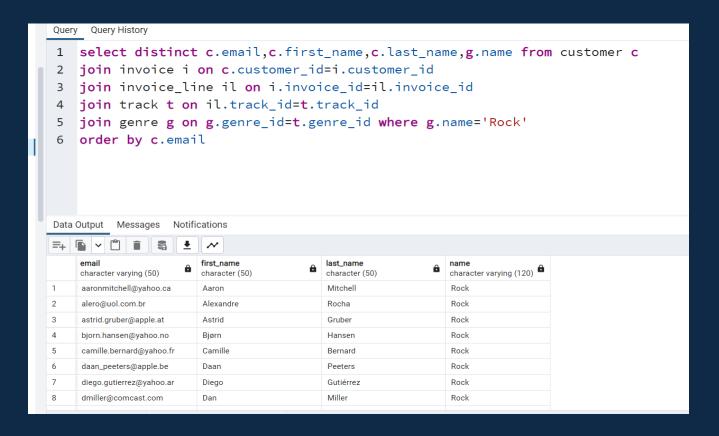
Q4. Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals



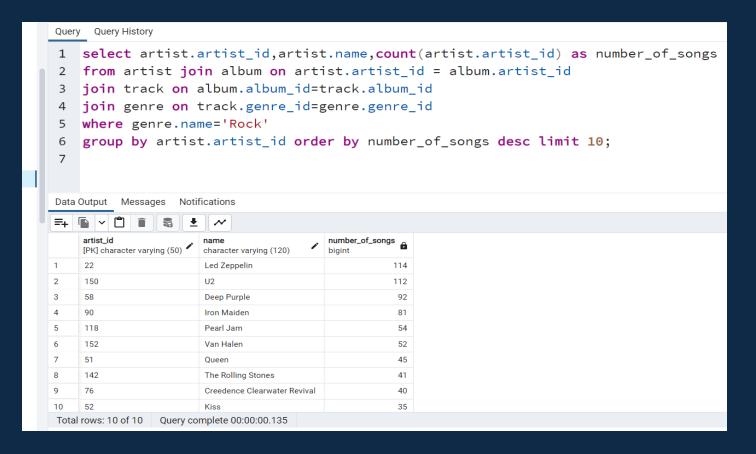
Q5. Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money



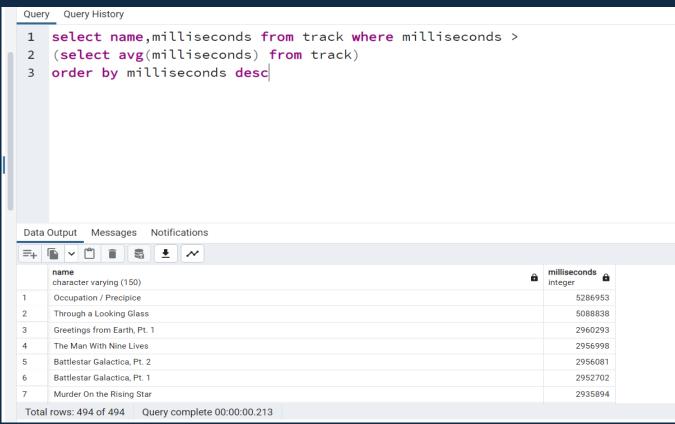
Q6. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A



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



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

```
1 with best selling artist as(
  select at.artist_id,at.name,sum(il.unit_price*il.quantity) as total_sales
  from artist as at join album as a on at.artist id=a.artist id
  join track as t on a.album_id=t.album_id
  join invoice_line as il on t.track_id=il.track_id
   group by at.artist id
   order by total_sales desc
   limit 1
10
   select c.customer_id,c.first_name,c.last_name,bsa.name,
11
   sum(il.unit price*il.quantity) as total spent
12
   from customer as c join invoice as i on c.customer id=i.customer id
13
   join invoice_line as il on i.invoice_id=il.invoice_id
14
   ioin track as t on il.track id=t.track id
15
   join album as a on t.album_id=a.album_id
16
   join best_selling_artist as bsa on a.artist_id=bsa.artist id
17
   group by c.customer id.bsa.name
18
19
  order by total spent desc
```

Output:-

	customer_id integer	first_name character (50)	last_name character (50)	name character varying (120)	total_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	16.830000000000002	
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	

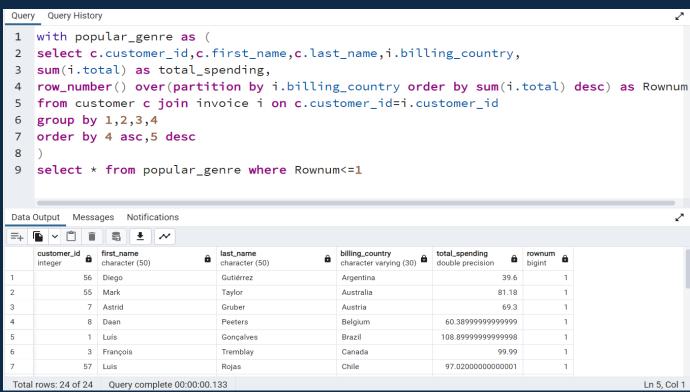
Q10. We want to find out the most popular music Genre for each country. We determine the most popular genre as the genre with the highest amount of purchases. Write a query that returns each country along with the top Genre. For countries where the maximum number of purchases is shared return all Genres



Output:-

Data Output Messages Notifications							
= + [
	name character varying (120)	country character varying (50)	purchases bigint	rownum bigint			
1	Alternative & Punk	Argentina	17	1			
2	Rock	Australia	34	1			
3	Rock	Austria	40	1			
4	Rock	Belgium	26	1			
5	Rock	Brazil	205	1			
6	Rock	Canada	333	1			
7	Rock	Chile	61	1			
8	Rock	Czech Republic	143	1			
9	Rock	Denmark	24	1			
10	Rock	Finland	46	1			
Total	Total rows: 24 of 24 Query complete 00:00:00.123						

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



INSIGHTS

Employee Distribution: There are fewer employees at the senior level compared to the junior level.

Customer Countries: The majority of customers, approximately 70%, are from European countries.

Top Revenue Source: The maximum total invoice amount comes from Prague city. Additionally, the top two customers who spend the most money also belong to Prague.

Popular Music Genre: Rock is the only music genre that is popularin all countries except Argentina in terms of purchase.

 Leading Rock Artist: Led Zeppelin is the artist who has written the most rock music.

