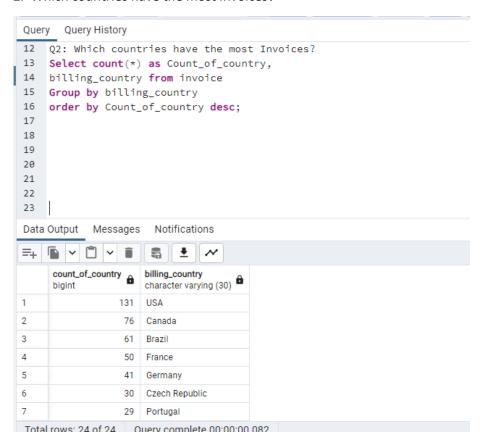
Music Store data analysis Project using SQL

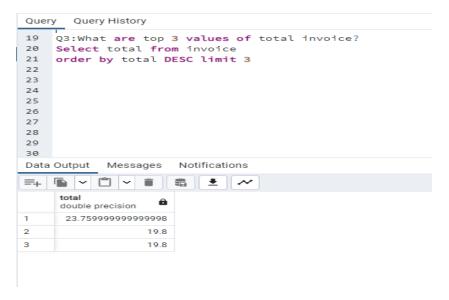
1. Who is the senior most employee based on job title?



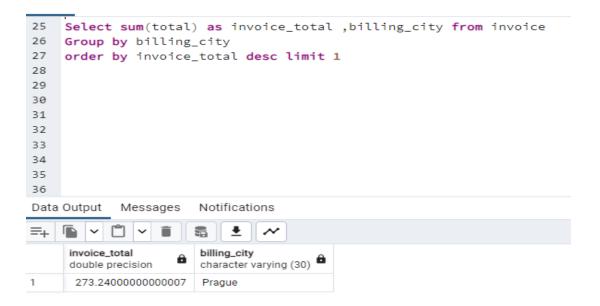
2. Which countries have the most Invoices?



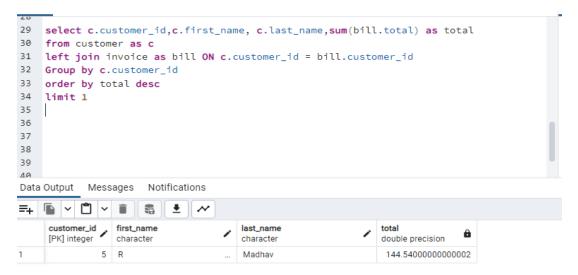
3. What are top 3 values of total invoice?



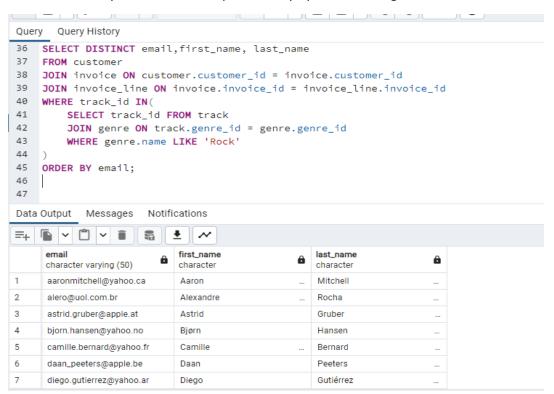
Q4 . Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals.



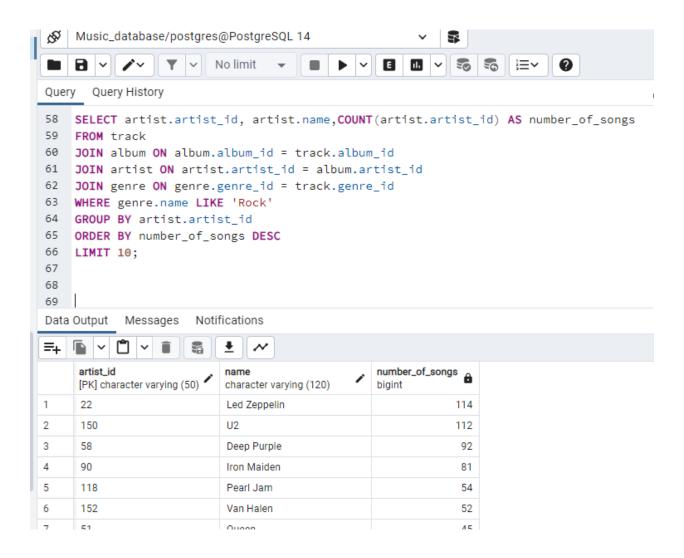
Q5. Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money



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

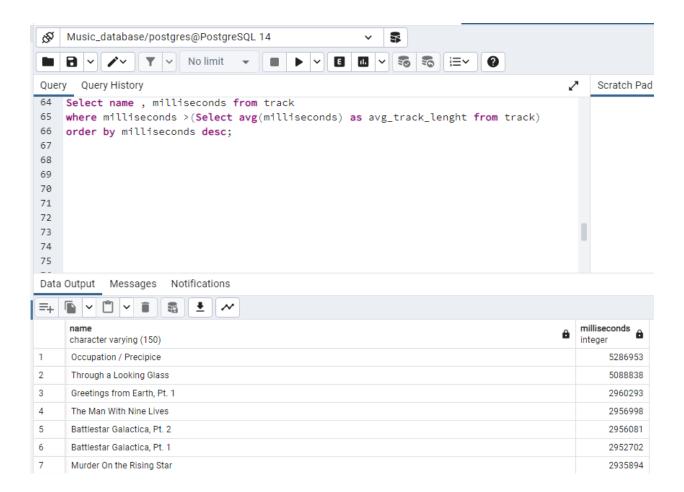


Q7. Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands



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.

```
WITH best_selling_artist AS (

SELECT artist.artist_id AS artist_id, artist.name AS artist_name,
SUM(invoice_line.unit_price*invoice_line.quantity) AS total_sales

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
)
SELECT c.customer_id, c.first_name, c.last_name, bsa.artist_name, SUM(il.unit_price*il.quantity) AS
amount_spent
FROM invoice i
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
JOIN album alb ON alb.album_id = t.album_id
JOIN best_selling_artist bsa ON bsa.artist_id = alb.artist_id
GROUP BY 1,2,3,4
ORDER BY 5 DESC;
```

=+					
	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	2.96999999999999
13	31	Martha	Silk	Queen	2.96999999999999
14	16	Frank	Harris	Queen	1.98
Tota	l rows: 43 of 43	Query complete 00:00:00.0	93	Oueen	1.00

```
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.
WITH popular_genre AS
  SELECT COUNT(invoice_line.quantity) AS purchases, customer.country, genre.name, genre.genre_id,
       ROW_NUMBER() OVER(PARTITION BY customer.country ORDER BY
COUNT(invoice_line.quantity) DESC) AS RowNo
  FROM invoice_line
       JOIN invoice ON invoice.invoice_id = invoice_line.invoice_id
       JOIN customer ON customer.customer_id = invoice.customer_id
       JOIN track ON track.track_id = invoice_line.track_id
       JOIN genre ON genre.genre id = track.genre id
       GROUP BY 2,3,4
       ORDER BY 2 ASC, 1 DESC
)
```

SELECT * FR	ROM popular_	_genre WHERE	RowNo <= 1
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=+					
	purchases bigint	country character varying (50)	name character varying (120)	genre_id character varying (50)	rowno bigint
1	17	Argentina	Alternative & Punk	4	1
2	34	Australia	Rock	1	1
3	40	Austria	Rock	1	1
4	26	Belgium	Rock	1	1
5	205	Brazil	Rock	1	1
6	333	Canada	Rock	1	1
7	61	Chile	Rock	1	1
8	143	Czech Republic	Rock	1	1
9	24	Denmark	Rock	1	1
10	46	Finland	Rock	1	1
11	211	France	Rock	1	1
12	194	Germany	Rock	1	1
13	44	Hungary	Rock	1	1
14	102	India	Rock	1	1
15	72	Ireland	Rock	1	1