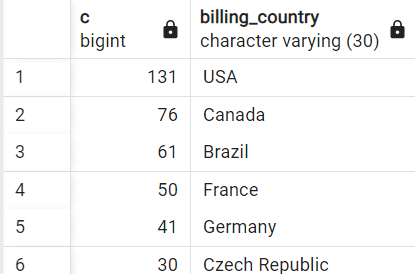
Q1: Who is the senior most employee based on job title?



Q2: Which countries have the most invoices?









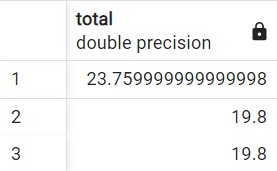


Q3 : What are the top 3 values of total invoice?

SELECT total FROM invoice

ORDER BY total DESC

LIMIT 3;



Q4: Which city has the best customers?We would like to throw a promotional Music

Festival in the city we made most money.Write a query that has one city that has

the highest sum of invoice totals.Return both city name and sum of all invoice

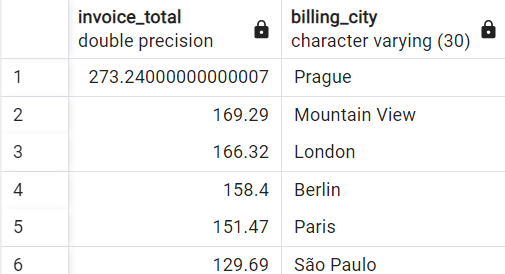
totals.

SELECT SUM(total) as invoice\_total,billing\_city

FROM invoice

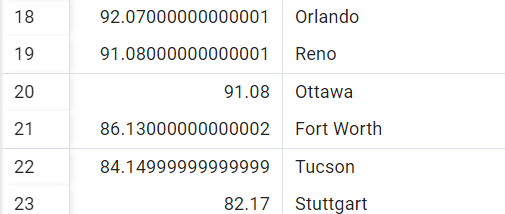
GROUP BY billing\_city

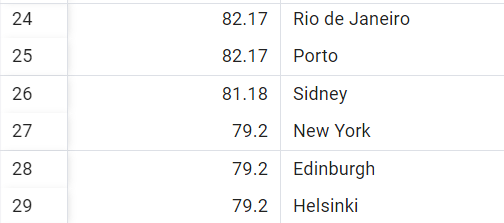
ORDER BY invoice\_total DESC;

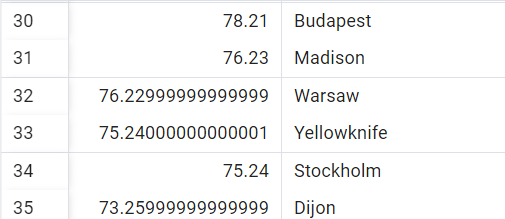


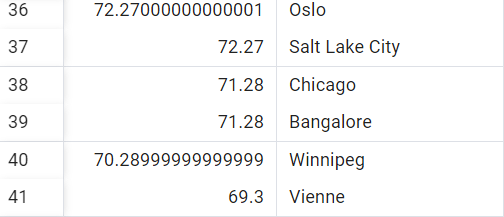
















Q5: Who is the best customer?The customer who has spent the most money will be declared

the best customer .Write a query that return the person who has spent the most money.

SELECT customer.customer\_id,customer.first\_name,customer.last\_name,SUM (invoice.total) as total

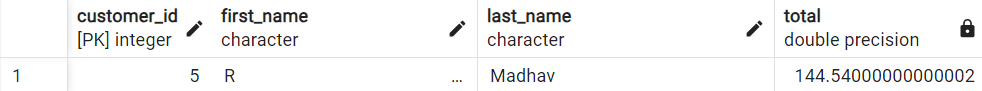
FROM customer

JOIN invoice ON customer.customer\_id = invoice.customer\_id

Group BY customer.customer\_id

ORDER BY total DESC

LIMIT 1;



Q1: 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.

SELECT DISTINCT email,first\_name,last\_name

FROM customer

JOIN invoice ON customer.customer\_id = invoice.customer\_id

JOIN invoice\_line ON invoice.invoice\_id = invoice\_line.invoice\_id

WHERE track\_id IN(

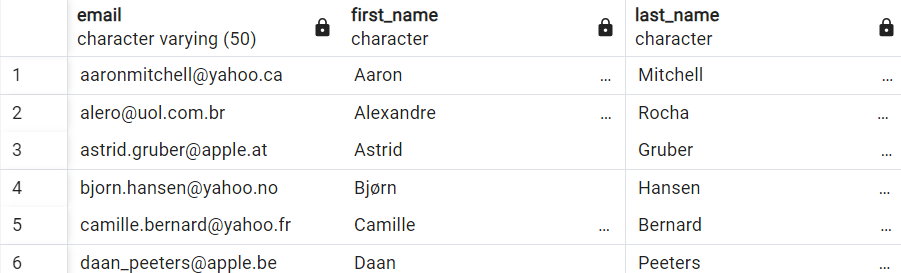
SELECT track\_id FROM track

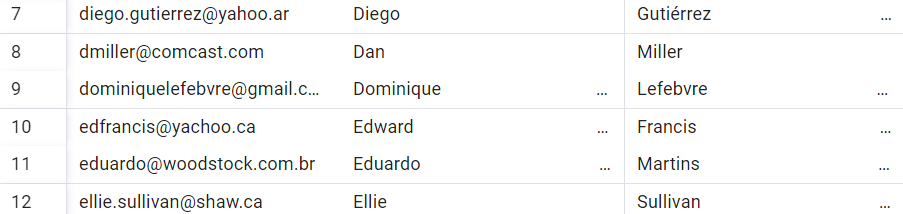
JOIN genre ON track.genre\_id = genre.genre\_id

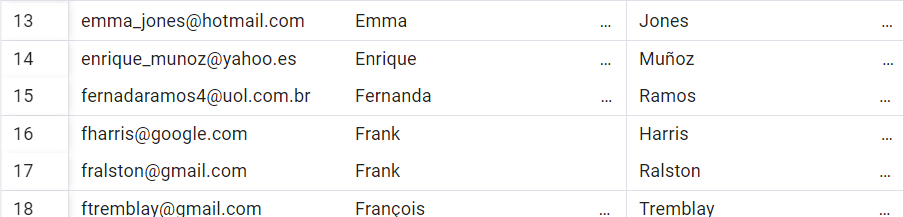
WHERE genre.name = 'Rock'

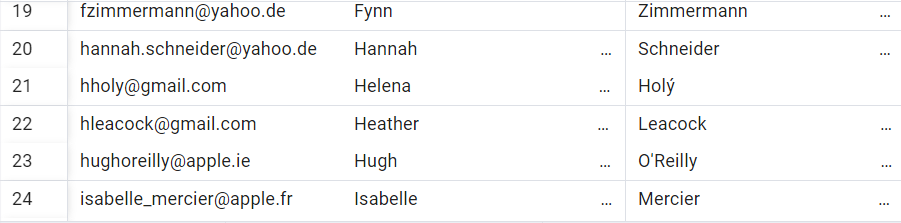
)

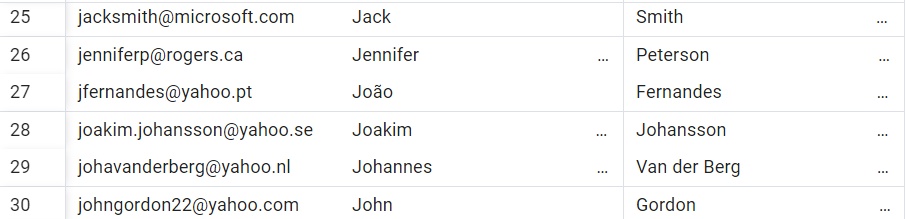
ORDER BY email;



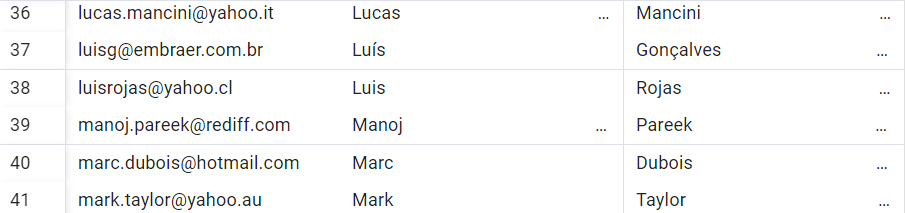




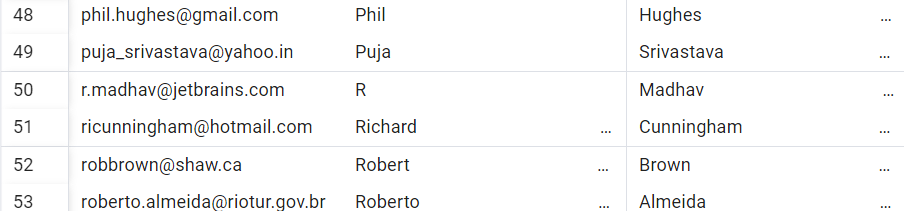














Q2: Lets invite the artists who have written the most rock music in our dataset.

Write a query that returns the artist name and total track count of the top

10 rock bands.

SELECT artist.artist\_id,artist.name,COUNT(artist.artist\_id) AS number\_of\_songs

FROM track

JOIN album ON album.album\_id = track.album\_id

JOIN artist ON artist.artist\_id = album.artist\_id

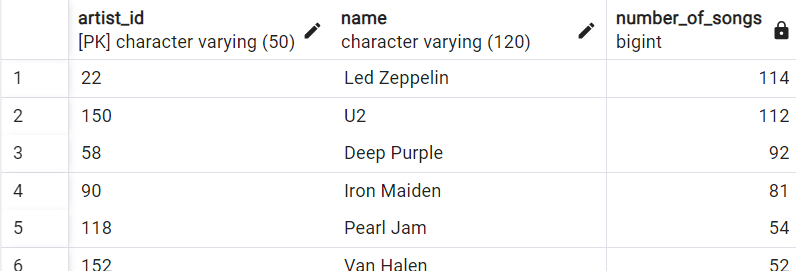
JOIN genre ON genre.genre\_id = track.genre\_id

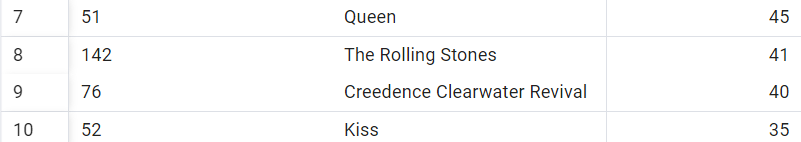
WHERE genre.name = 'Rock'

GROUP BY artist.artist\_id

ORDER BY number\_of\_songs DESC

LIMIT 10;





Q3: 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.

SELECT name,milliseconds

FROM track

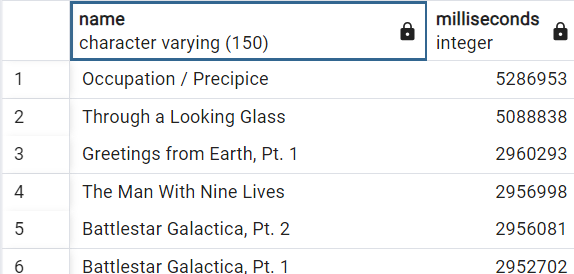
WHERE milliseconds>(

SELECT AVG(milliseconds) AS avg\_track\_length

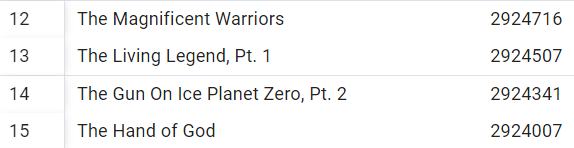
FROM track

)

ORDER BY milliseconds DESC;

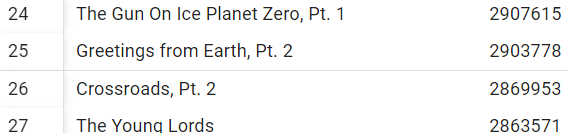


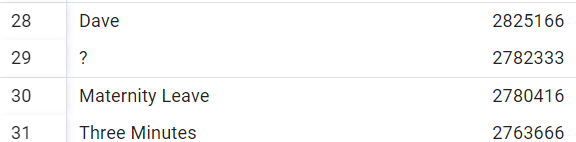


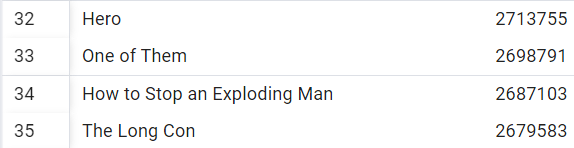


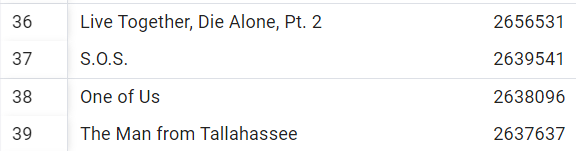


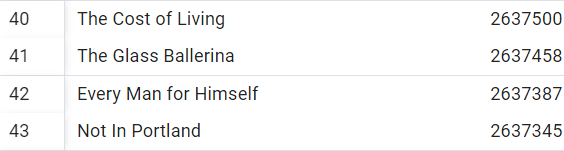




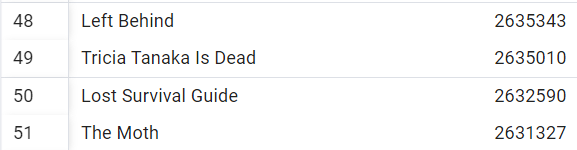


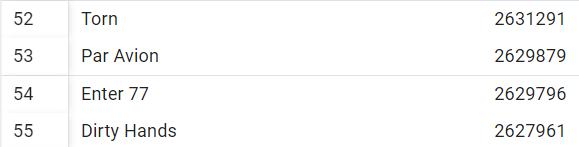


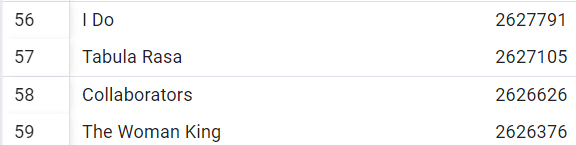












Q1: Find how much amount spent by each customer on artist?Write a query to return

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

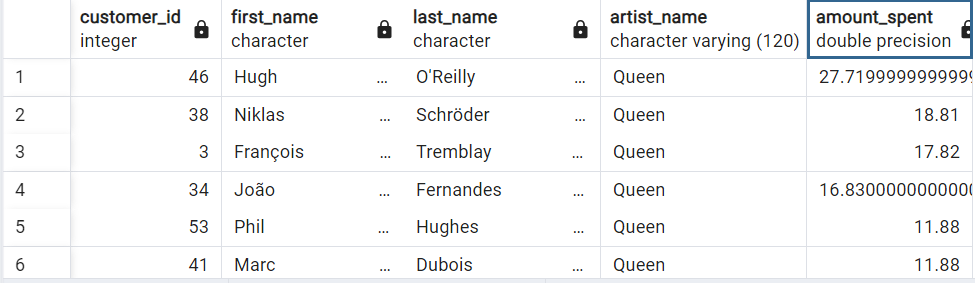
JOIN track t ON t.track\_id = il.track\_id

JOIN album alb ON alb.album\_id = t.album\_id

JOIN best\_selling\_artist bsa ON bsa.artist\_id = alb.artist\_id

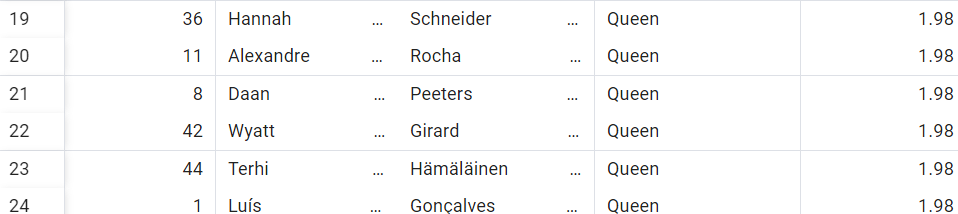
GROUP BY 1,2,3,4

ORDER BY 5 DESC;

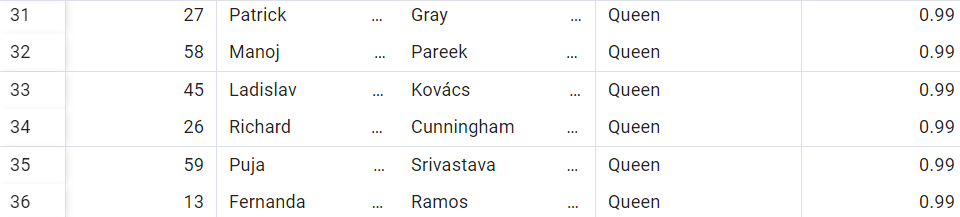


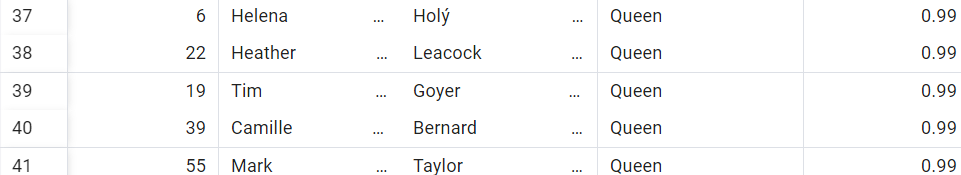














Q2: We want to find out the most popular music Genrefor each country.We determine

The most popular genre as the genre with the highest amount of purchases.Write a query

that returns each country along with 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 \* FROM popular\_genre WHERE RowNo <= 1

