**Music Store Sql QUERIES**

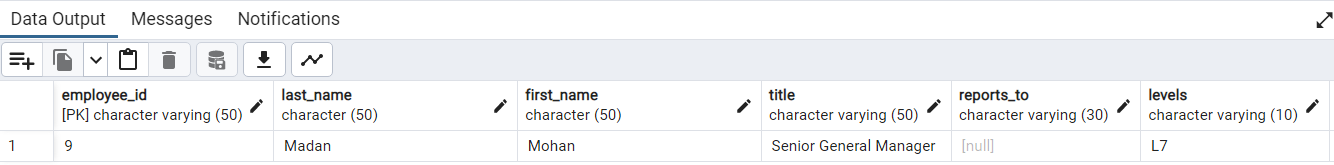
**A. Easy Set**

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

select \* from employee

order by levels desc

limit 1;



**Q2: Which city have the most Invoices?**

select \* from invoice;

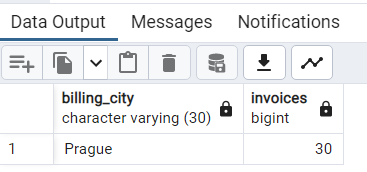
select billing\_city ,count(\*) as invoices

from invoice

group by billing\_city

order by invoices desc

limit 1;



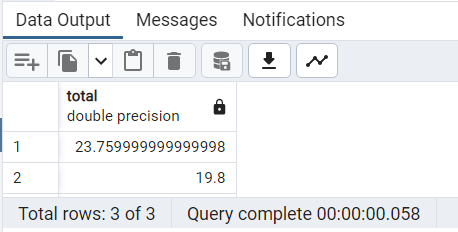
**Q3: What are top 3 values of total invoice?**

select \* from 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 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**

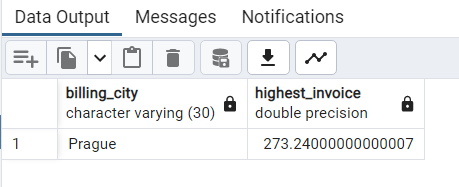
select billing\_city,sum(total) as Highest\_Invoice

from invoice

group by billing\_city

order by Highest\_Invoice desc

limit 1



**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.**

select \* from customer;

select c.customer\_id,c.First\_name,c.last\_name,country,sum(i.total) as Total\_Spending

from Customer as c

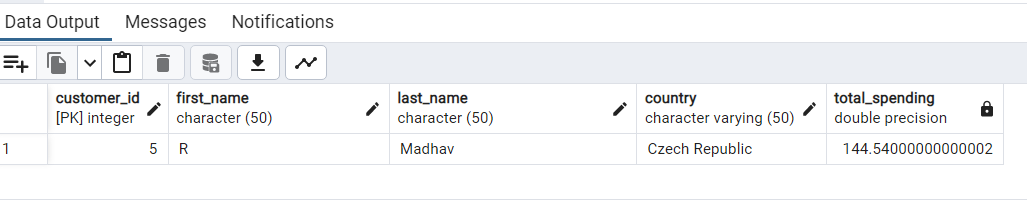
Inner Join Invoice as i

on c.customer\_id=i.customer\_id

group by c.customer\_id,c.first\_name,c.country

order by Total\_Spending desc

limit 1;



**B. Moderate Set  
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 c.email,c.first\_name,c.last\_name,g.name

from customer as c

inner join invoice as i

on c.customer\_id=i.customer\_id

inner join invoice\_line as il

on i.invoice\_id=il.invoice\_id

inner join track

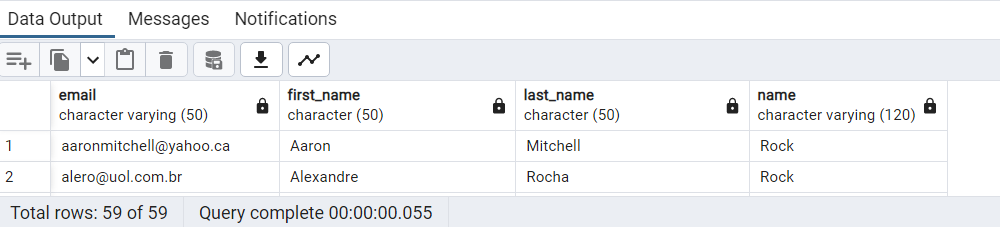
on il.track\_id=track.track\_id

inner join genre as g

on track.genre\_id=g.genre\_id

where g.name='Rock'

order by c.email asc;



**Q2: 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.**

select artist.artist\_id,artist.name,count(artist.artist\_id) as total\_track

from artist

inner join album

on artist.artist\_id=album.artist\_id

inner join track

on album.album\_id=track.album\_id

inner join genre

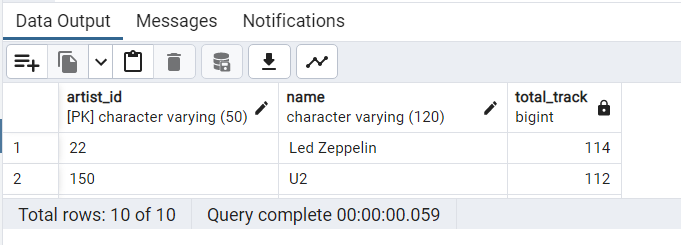
on track.genre\_id=genre.genre\_id

where genre.name='Rock'

Group by artist.artist\_id

order by total\_track desc

limit 10;



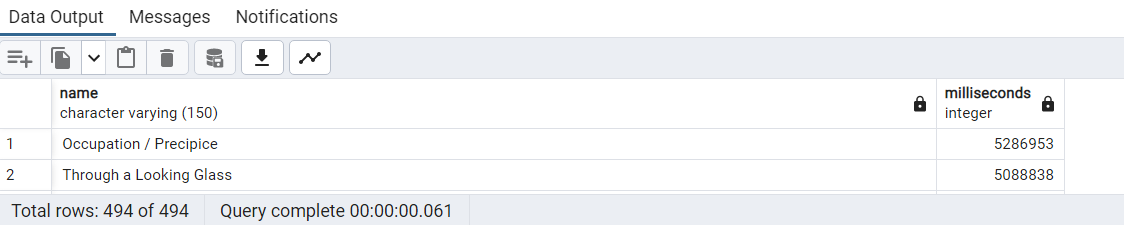
**Q3: Return all the track names that have a song length longer than the average song length.**

**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) from track)**

**order by milliseconds desc ;**



**C. Advance Set**

**Q1. Find how much amount spent by each customer on artists who have earned the most? Write a query to return customer name, artist name and total spent**

**\*/ Method 1\*/**

with cte as(

select a.artist\_id,a.name,sum(il.unit\_price \*il.quantity) as total\_spent

from artist as a

inner join album as al

on a.artist\_id=al.artist\_id

inner join track as t

on al.album\_id=t.album\_id

inner join invoice\_line as il

on t.track\_id=il.track\_id

group by a.artist\_id

order by total\_spent desc

limit 1

)

select c.customer\_id,c.first\_name,c.last\_name,cte.name,sum(il.unit\_price \*il.quantity) as total\_spent

from customer as c

inner join invoice as i

on c.customer\_id=i.customer\_id

inner join invoice\_line as il

on i.invoice\_id=il.invoice\_id

inner join track as t

on il.track\_id=t.track\_id

inner join album as al

on t.album\_id=al.album\_id

inner join cte

on cte.artist\_id=al.artist\_id

group by 1,2,3,4

order by total\_spent desc;

**/\* Method 2 \*/**

select c.customer\_id,c.first\_name,c.last\_name,c.country,ar.name,

sum(il.quantity \* il.unit\_price)

from customer as c

inner join invoice as i

on c.customer\_id=i.customer\_id

inner join invoice\_line as il

on i.invoice\_id=il.invoice\_id

inner join track as t

on il.track\_id=t.track\_id

inner join album as a

on a.album\_id=t.album\_id

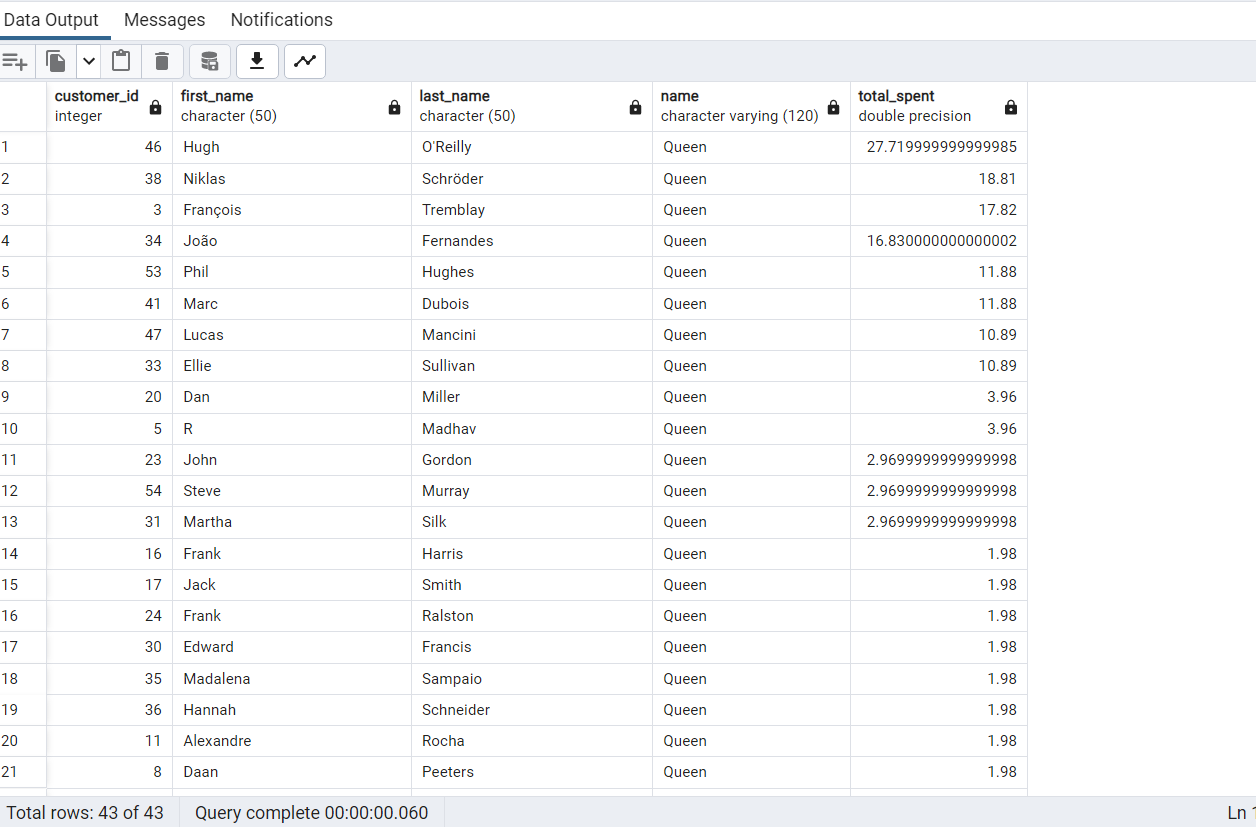
inner join artist as ar

on ar.artist\_id=a.artist\_id

group by 1,2,3,4,5

having ar.name='Queen'

order by 6 desc



**Q2: 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 i.billing\_country,g.name,sum(il.quantity) as total\_purchase,sum(i.total) as total\_spent,

row\_number() over(Partition by billing\_country order by sum(il.quantity) desc) as ranks

from invoice i

inner join invoice\_line as il

on i.invoice\_id=il.invoice\_id

inner join track as t

on il.track\_id=t.track\_id

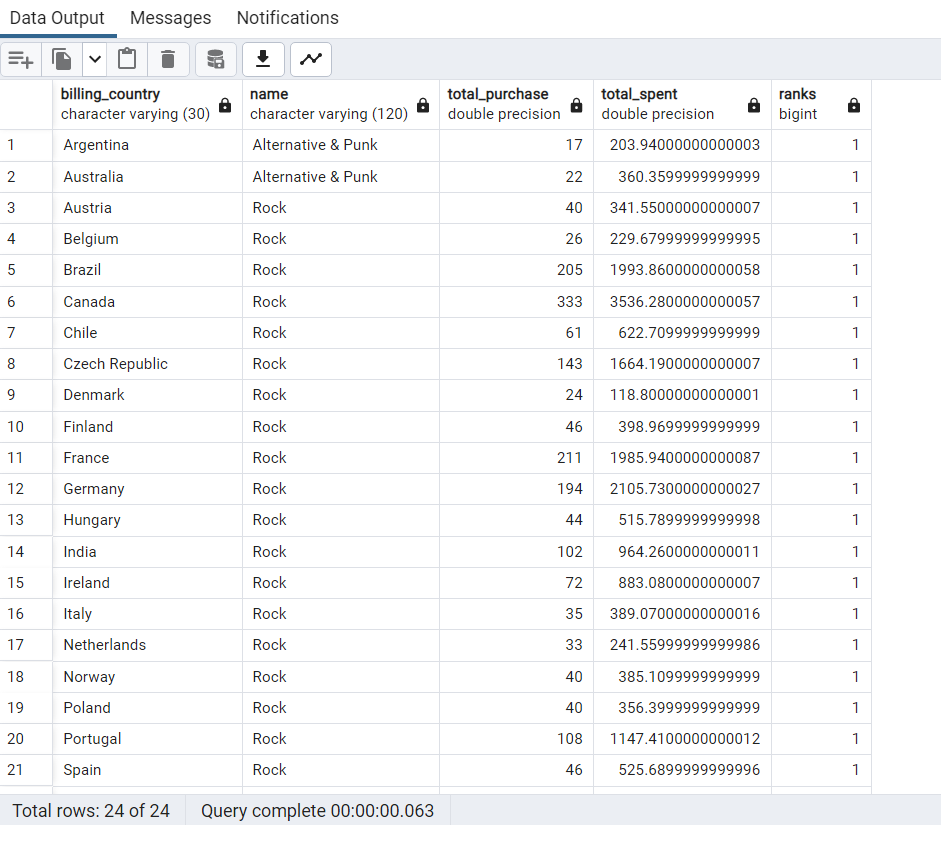
inner join genre as g

on t.genre\_id=g.genre\_id

group by 1,2

)

Select \* from popular\_genre where ranks =1;



**Q3: 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**

WITH Customter\_with\_country AS (

SELECT customer.customer\_id,first\_name,last\_name,billing\_country,SUM(total) AS total\_spending,

ROW\_NUMBER() OVER(PARTITION BY billing\_country ORDER BY SUM(total) DESC) AS RowNo

FROM invoice

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

GROUP BY 1,2,3,4

ORDER BY 4 ASC,5 DESC)

SELECT \* FROM Customter\_with\_country WHERE RowNo <= 1

