# MUSIC STORE ANALYSIS USING SQL BY SANA ARSHAD

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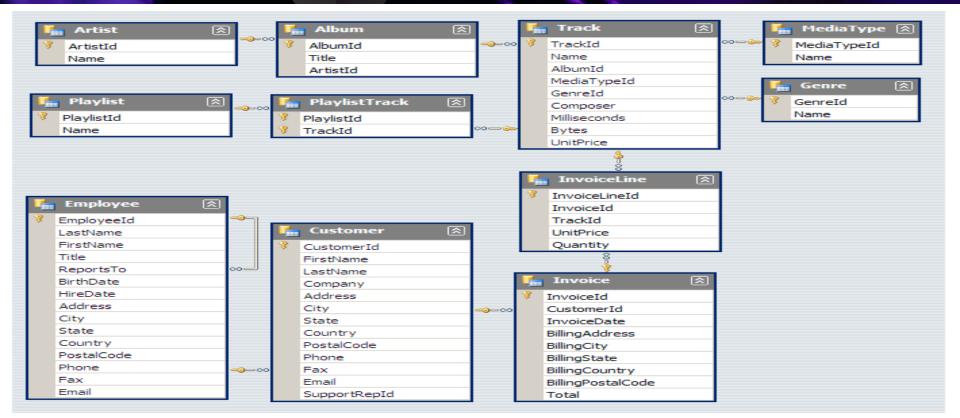
## **OBJECTIVES**

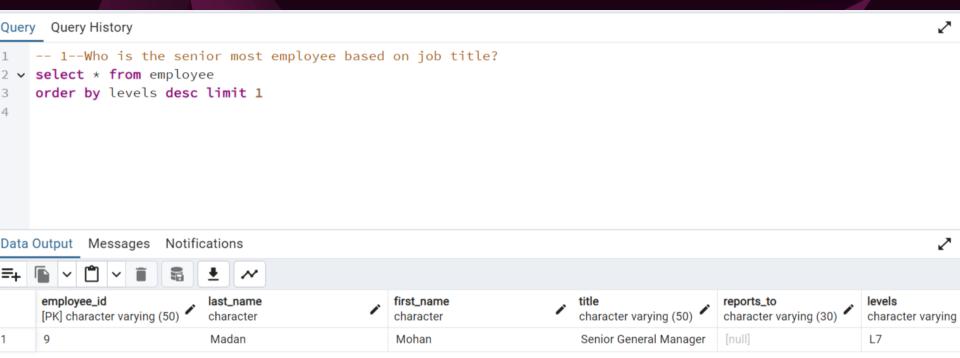
• To help music store to overcome their challenges and help them to grow their business

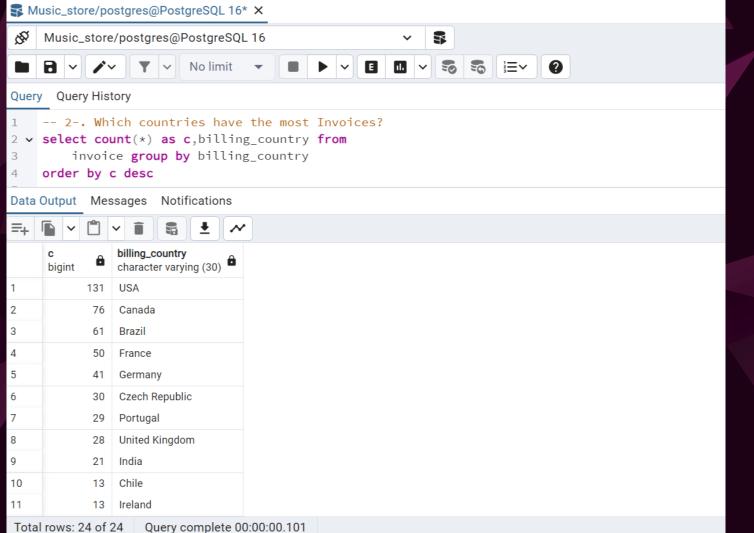
## FUNCTIONS USED:

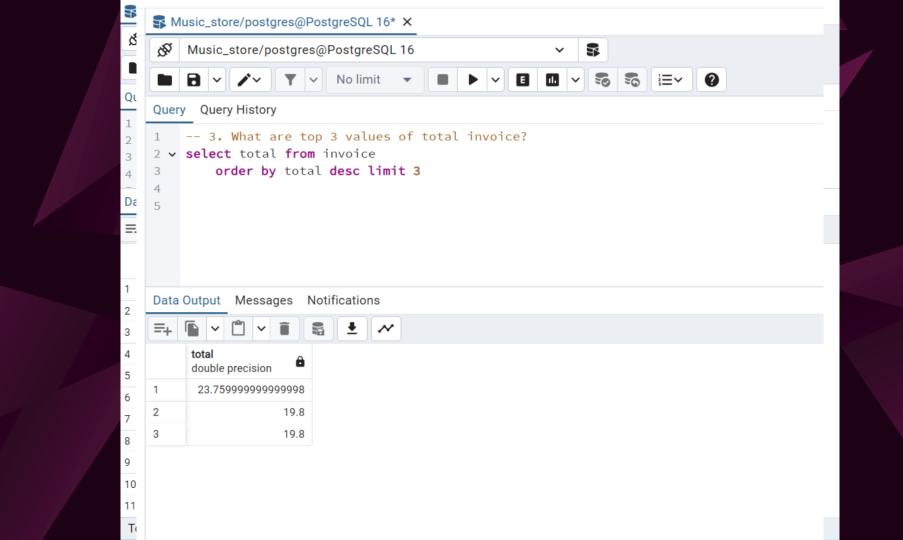
- · Joins in SQL
- · Where clause
- Aggregate functions
  - · Group by clause
  - · Order by clause
    - · Limit in SQL
      - · CTEs

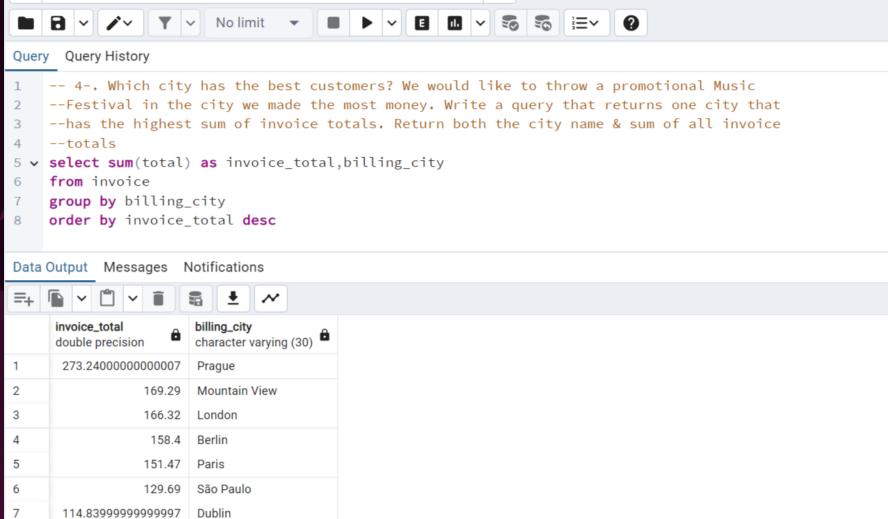
#### MUSIC STORE DATA BASE SCHEMEA









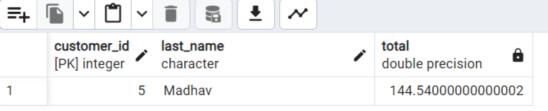


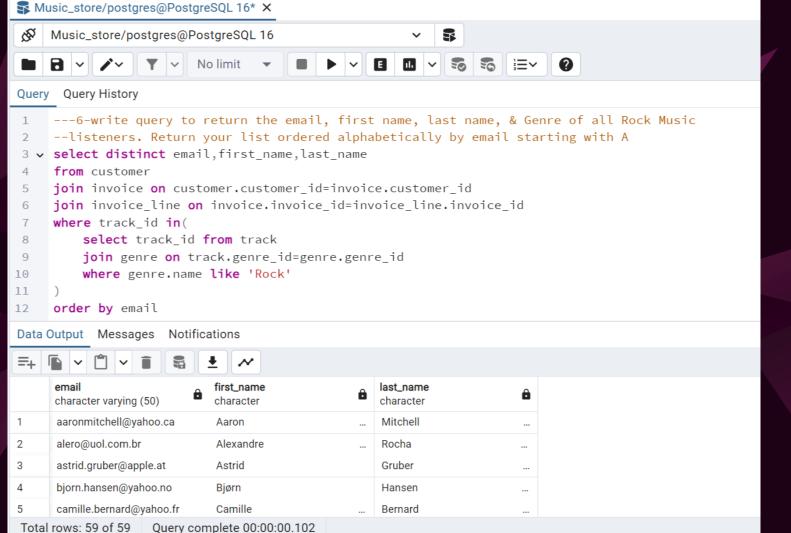
```
Query Query History
```

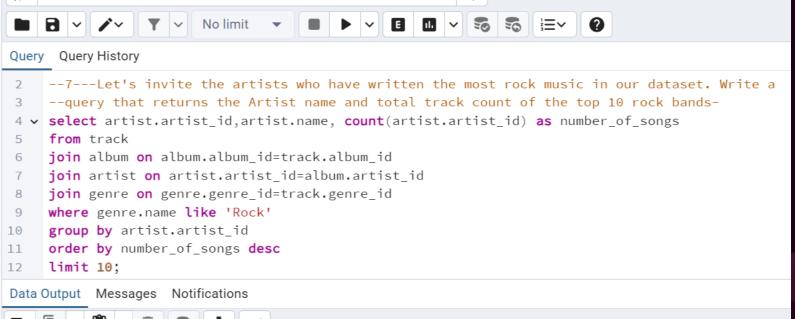
```
--5Who is the best customer? The customer who has spent the most money will be
--declared the best customer. Write a query that returns the person who has spent the
--most money

very select customer.customer_id,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
```

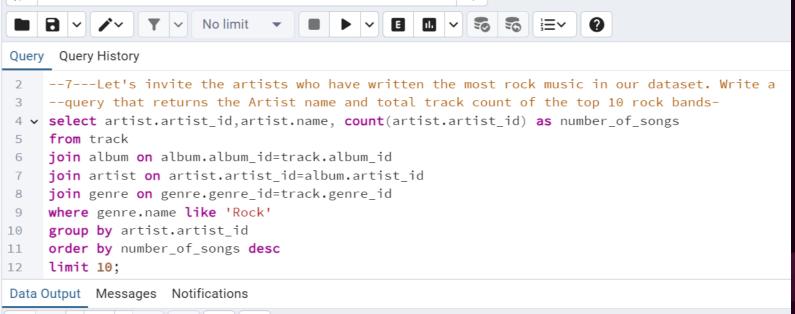
#### Data Output Messages Notifications







=+					
	artist_id [PK] character vary	ying (50) name character varying (120)	number_of_songs bigint		
1	22	Led Zeppelin	114		
2	150	U2	112		
3	58	Deep Purple	92		
4	90	Iron Maiden	81		
5	118	Pearl Jam	54		
6	152	Van Halen	52		
Total rows: 10 of 10					



=+						
	artist_id [PK] character vary	ying (50) name character varying (120)	rumber_of_songs bigint   □			
1	22	Led Zeppelin	114			
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3	58	Deep Purple	92			
4	90	Iron Maiden	81			
5	118	Pearl Jam	54			
6	152	Van Halen	52			
Total rows: 10 of 10 Ouery complete 00:00:00.105						

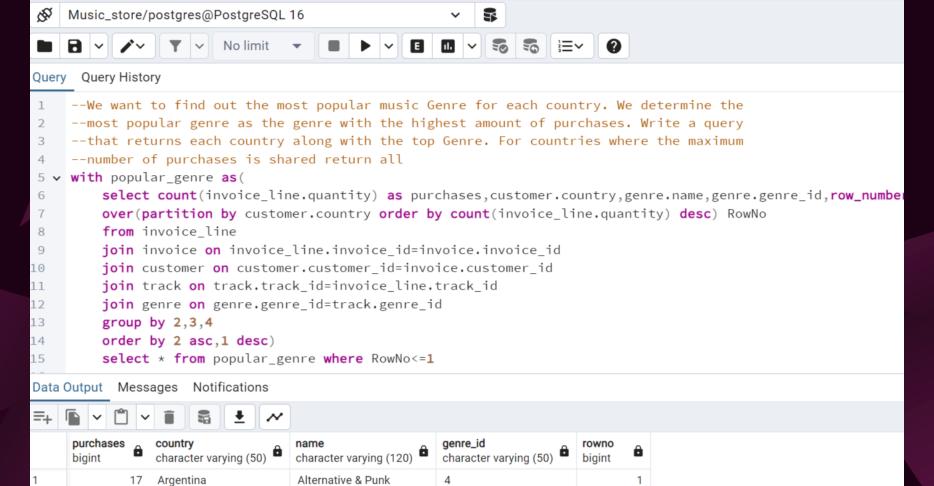
Query Query History								
2 3 4 5	Return all the track names that have a song length longer than the average song lengthReturn the Name and Milliseconds for each track. Order by the song length with thelongest songs listed firs							
6 🗸	<pre>select name, milliseconds</pre>							
7	<pre>from track</pre>							
8	<pre>where milliseconds&gt;</pre>							
9	(select avg(milliseconds) as avg_track_length							
10	<pre>from track)</pre>							
11	order by milliseconds desc							
12								
Data Output Messages Notifications								
	name character varying (150)	milliseconds integer						
1	Occupation / Precipice	5286953						
2	Through a Looking Glass	5088838						
3	Greetings from Earth, Pt. 1	2960293						
4	The Man With Nine Lives	2956998						
5	Battlestar Galactica, Pt. 2							

Total rows: 494 of 494 Query complete 00:00:00.112

Battlestar Galactica. Pt. 1

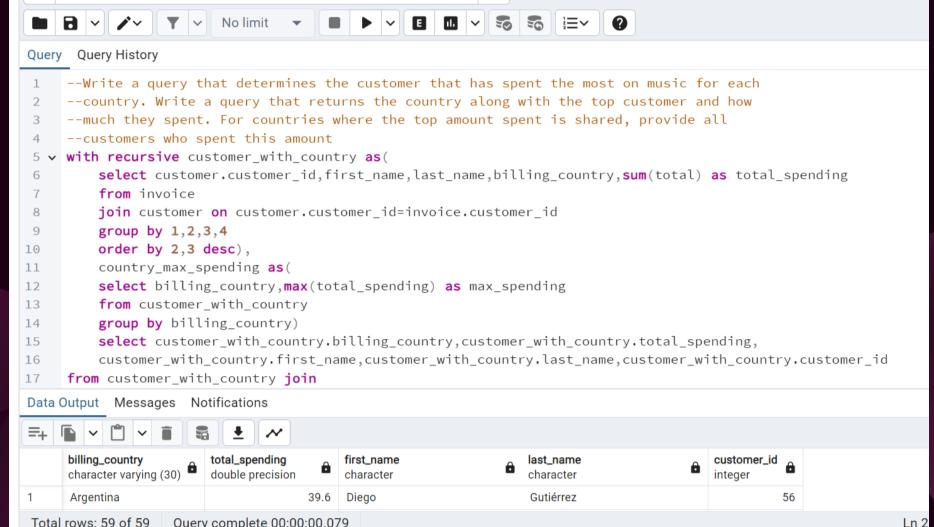
2952702

```
Query History
Querv
     --Find how much amount spent by each customer on artists? Write a query to return
2
     --customer name, artist name and total spent
3
     with best_selling_artist as(
4 🗸
         select artist.artist_id as artist_id,artist.name as artist_name,
5
         sum(invoice line.unit price*invoice line.quantity) as total sales
6
         from invoice_line join track
         on track.track id=invoice line.track id
8
         ioin album on album.album_id=track.album_id
9
         join artist on artist.artist_id=album.artist_id
0
         group by 1
Data Output Messages
                      Notifications
     customer_id
                  first_name
                                                                      artist_name
                                            last_name
                                                                                            amount_spent
                  character
                                            character
                                                                      character varying (120)
                                                                                            double precision
     integer
                  Hugh
                                            O'Reilly
                                                                      Oueen
                                                                                            27.719999999999985
              38
                  Niklas
                                            Schröder
                                                                      Queen
                                                                                                         18.81
                  François
                                            Tremblay
                                                                                                         17.82
                                                                      Queen
              34
                  João
                                            Fernandes
                                                                                            16.8300000000000002
                                                                      Queen
               53
                  Phil
                                            Hughes
                                                                                                         11.88
                                                                      Queen
                                                                                                         11.88
                  Marc
                                            Dubois
                                                                      Oueen
```



2 34 Australia Rock 1 1 1

Total rows: 24 of 24 Query complete 00:00:00 070



### INSIGHTS GATHERED:

- Adam Andrew is the oldest employee working in company.
  - Customers from Prague has the Spent the highest amount of money.
  - Customer named Franteik has spent the most amount of money to buy music.
  - Number of Songs sung by different Artists with their names and artist ID.
  - Rock is the most popular Genre amongst all countries.

## THANK YOU