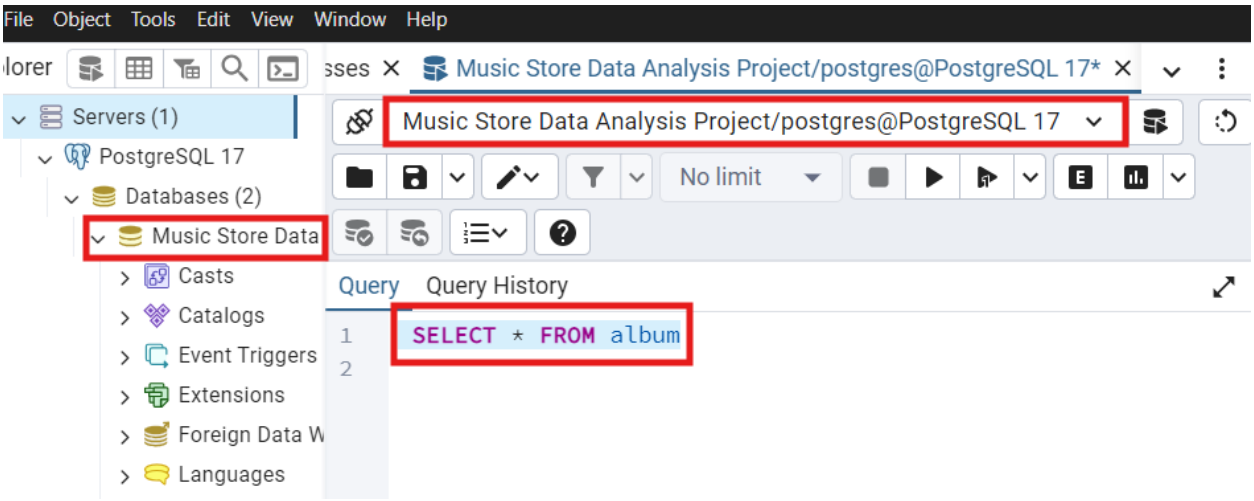
Music Store Data Analysis using SQL Database

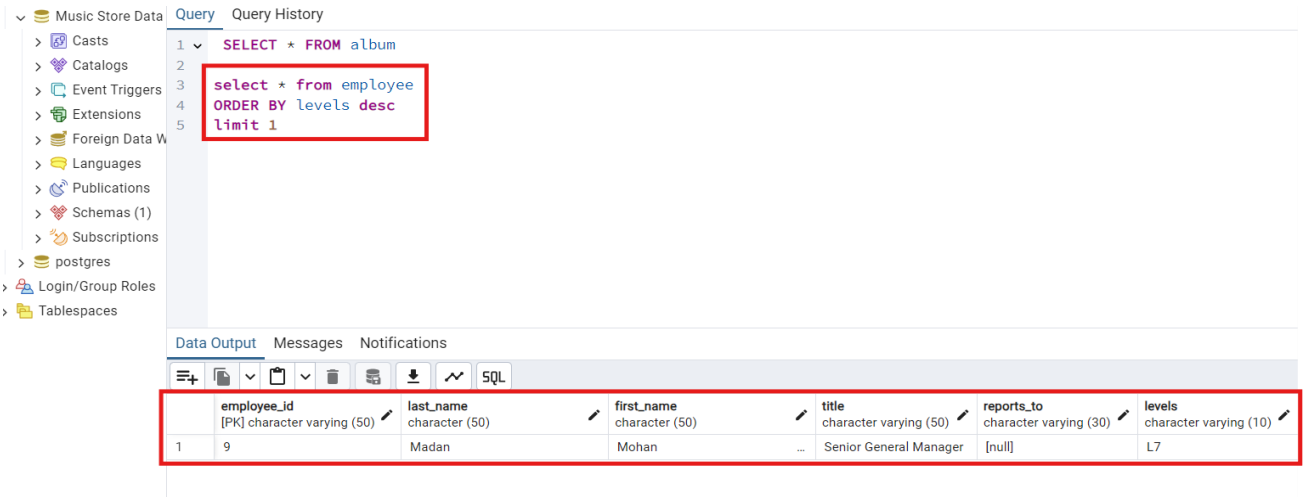
Question Set 1 – Easy Total Questions 5

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

Solution: First of all, we will import our database after that we will click the query to solve the questions so to import the database, we will select the database **by SELECT * FROM album.** And will press **F5** to execute the command.



So next is to find **the senior most employee based on job role** so as we know they have given some **ranks to employees** so we will select employees and **will sort the order**. And as we need only one name so we will **limit to 1** as in the image. So it will show us result in one row.



Q2: Which countries have the most Invoices?

Solution: As its about **invoices** and we have the invoice table so we will select that. We will have then **selected count** from **billing countries** to knows the **most billings in countries from invoices.** Then will group by them as we can have multiples invoices from same country. And will sort it descending order. We can also limit them to 1 or more rows on how many we want.

```
select COUNT (*) as c , billing_country
from invoice
group by billing_country
order by c desc
```

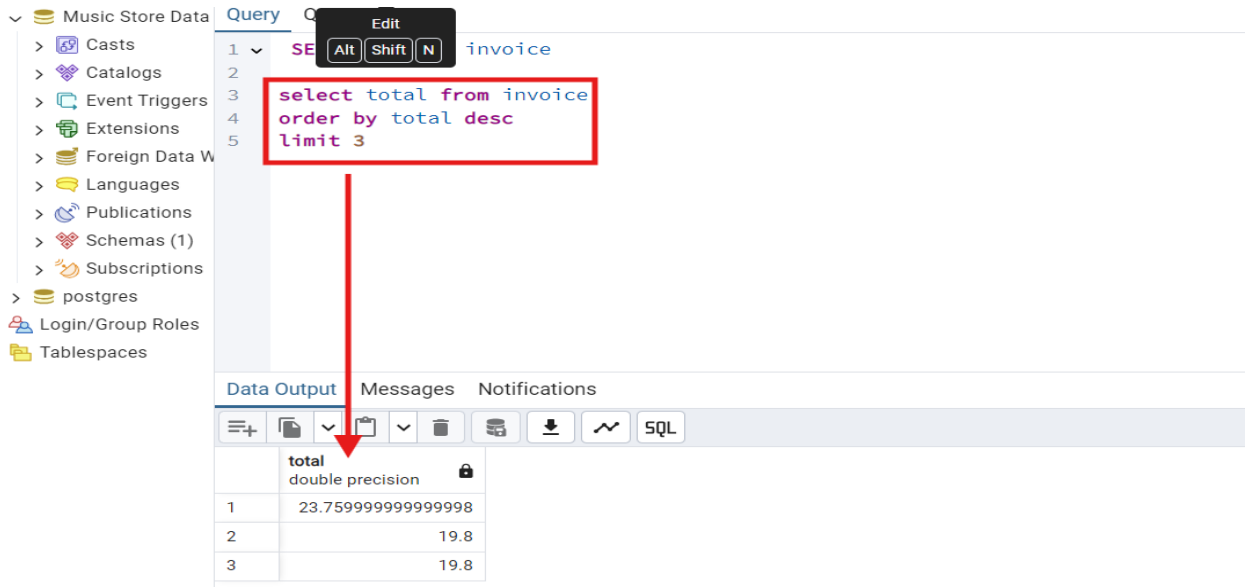
Data Output | Messages | Notifications

	c bigint	billing_country character varying (30)
1	131	USA
2	76	Canada

So, in a result we have found the most invoices from a country.

Question 3: What are top 3 values of total invoice?

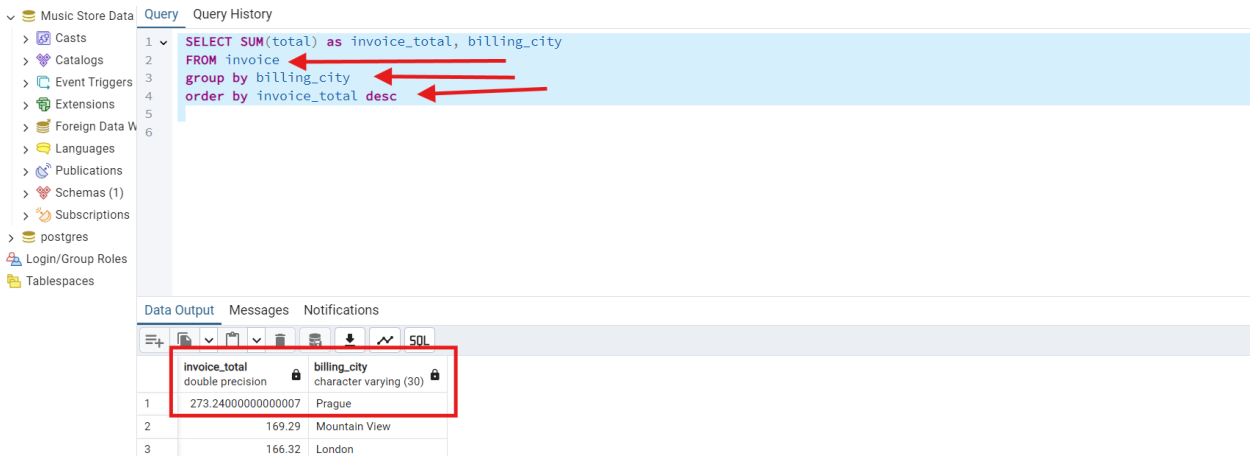
So, we will again select our invoice table and as we need just total from invoice so we won't select all but just select total will sort it to get the data in sorted value and will limit it to 3 values as in the image.



We can see the top 3 values from invoice.

Question4: Which city has the best customers? We would like to throw a promotional Music Festival in the city where 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.

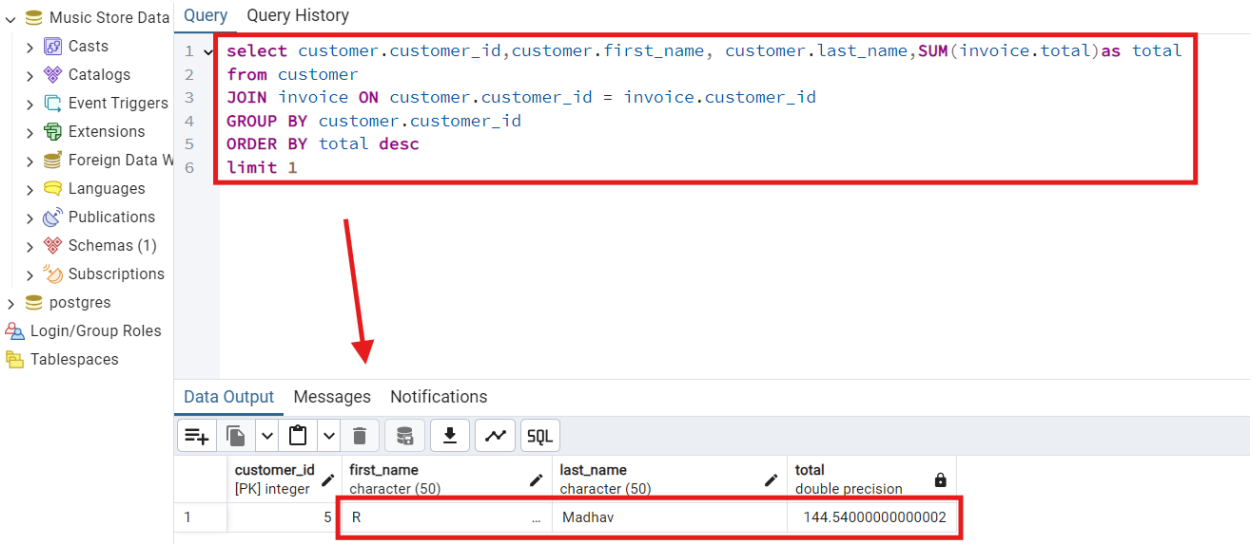
Solution: As we will need to select sum of invoices and will name it as invoice total and then also select billing city as we need the city with most invoices which means Profit from the most city where they want to throw a music festival after that we will sort the data of sum, we get from city in order. As we can see in the image.



So the answerer is Prague city where they can throw the music festival

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.

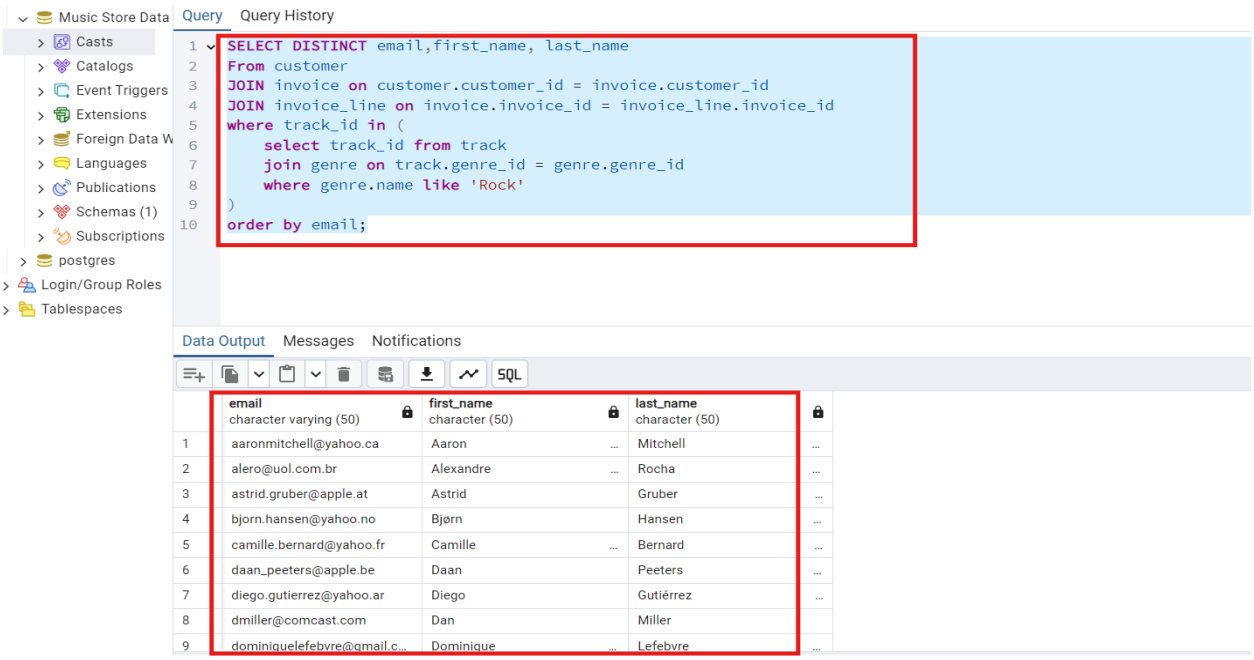
Solution: As we don't have invoice table in **customers** so well connect **invoice table** with customer id of customer with the help of schema. As we need which customers has spent the more money.



Questions Set 2 – Moderate- Total Questions 3

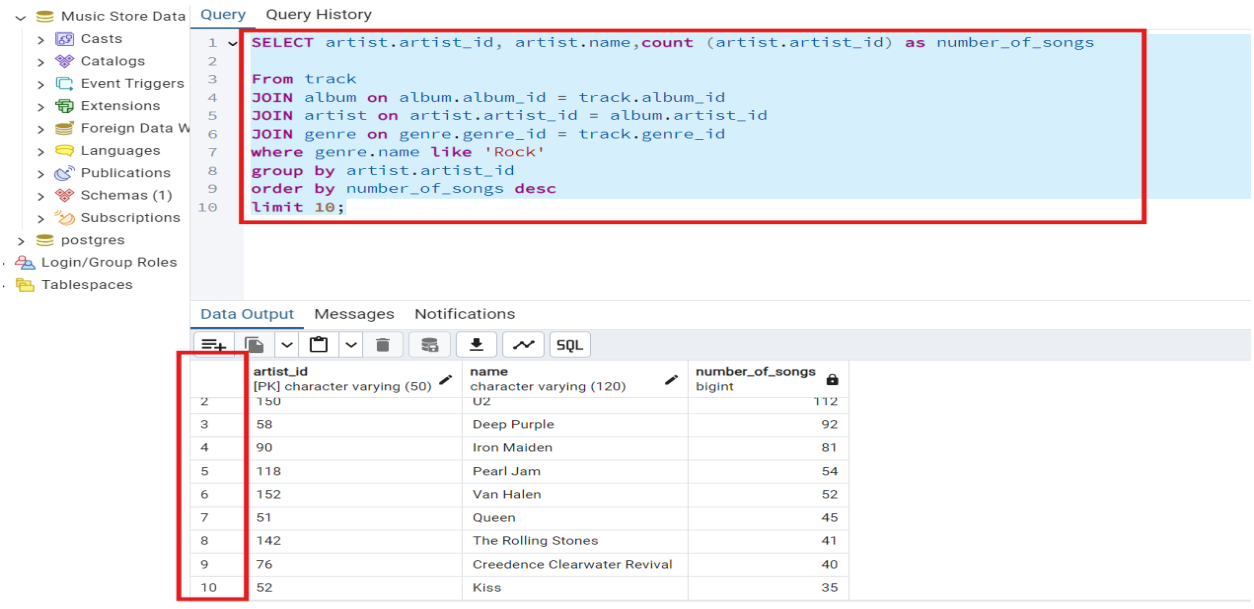
Q1. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A

Solution:



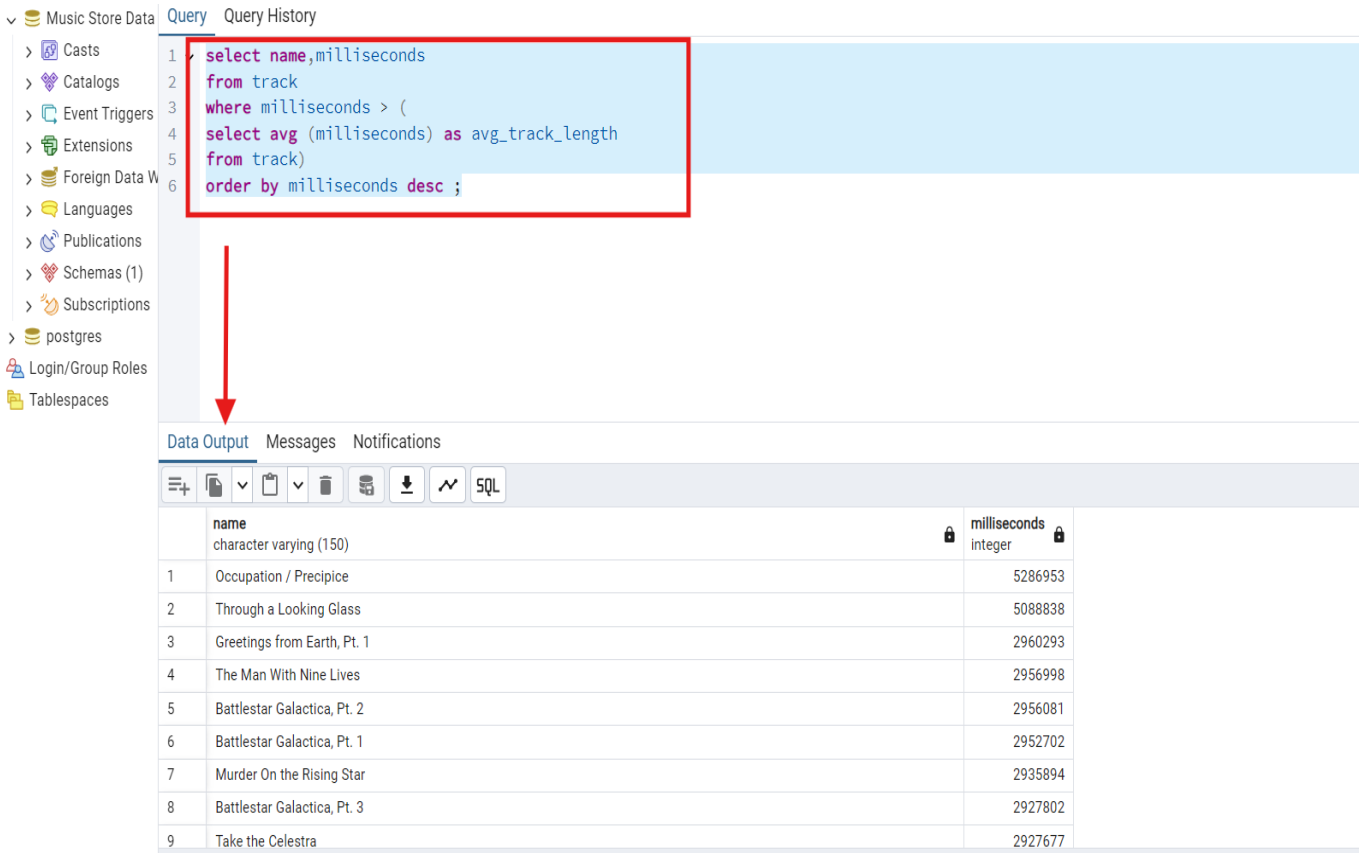
Q2: Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands.

Solution: using scheme to connect and then execute as shown in image count 10 bands.



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.

Solution: IN this we have two steps first of all we will have to create average then use filter in it.



	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	2956081
6	Battlestar Galactica, Pt. 1	2952702
7	Murder On the Rising Star	2935894
8	Battlestar Galactica, Pt. 3	2927802
9	Take the Celestra	2927677