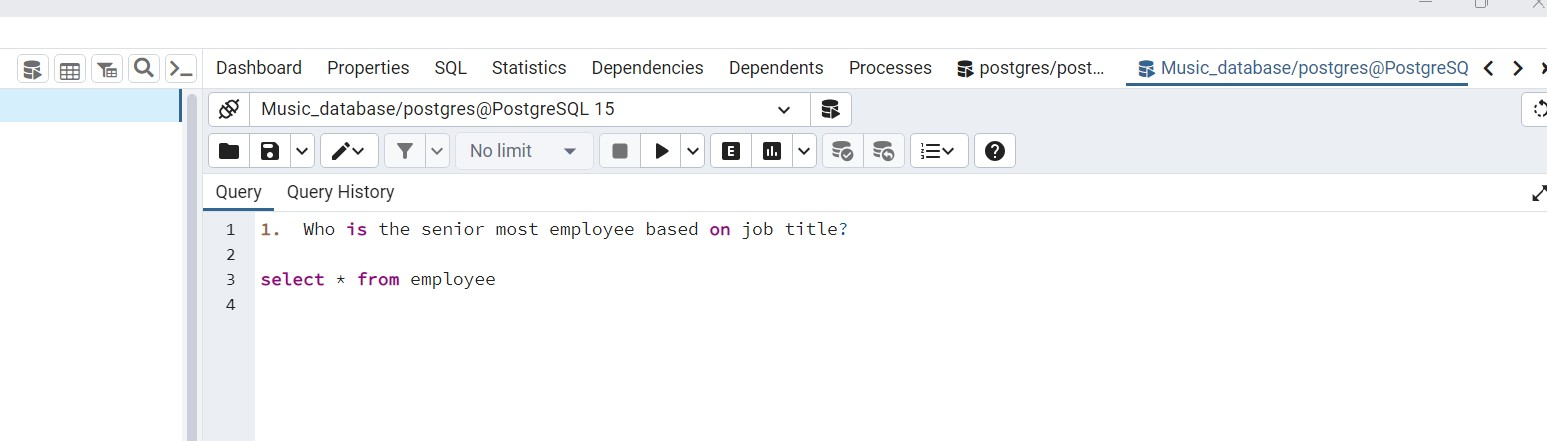
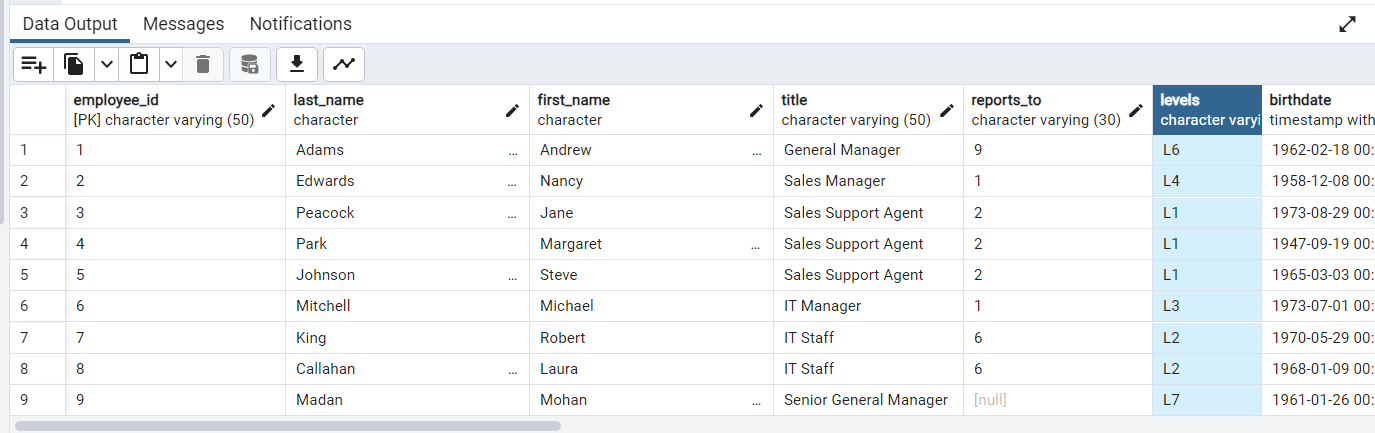
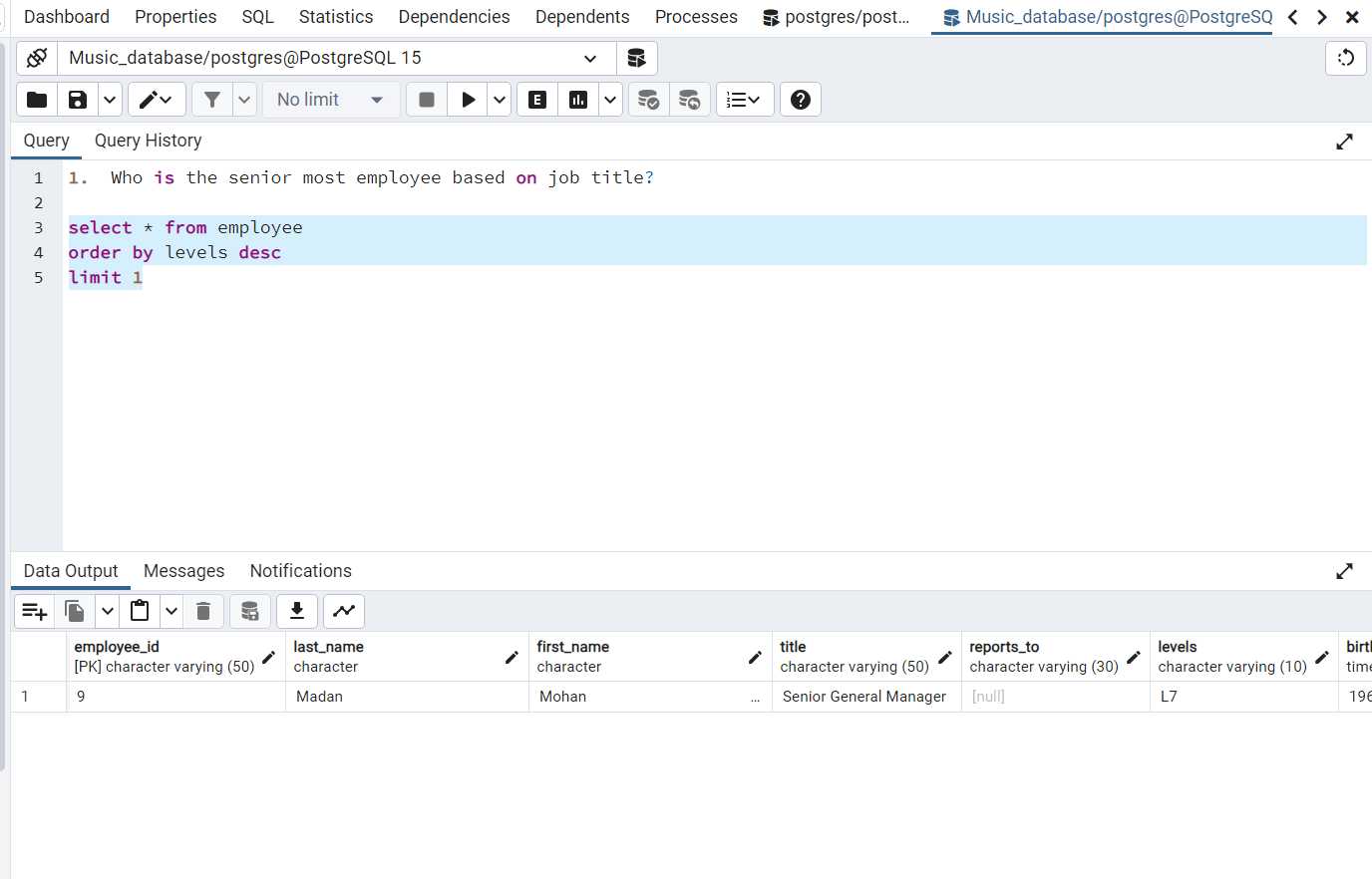
**MUSIC\_STORE DATA ANALYSIS SQL PROJECT (SOLUTIONS)**

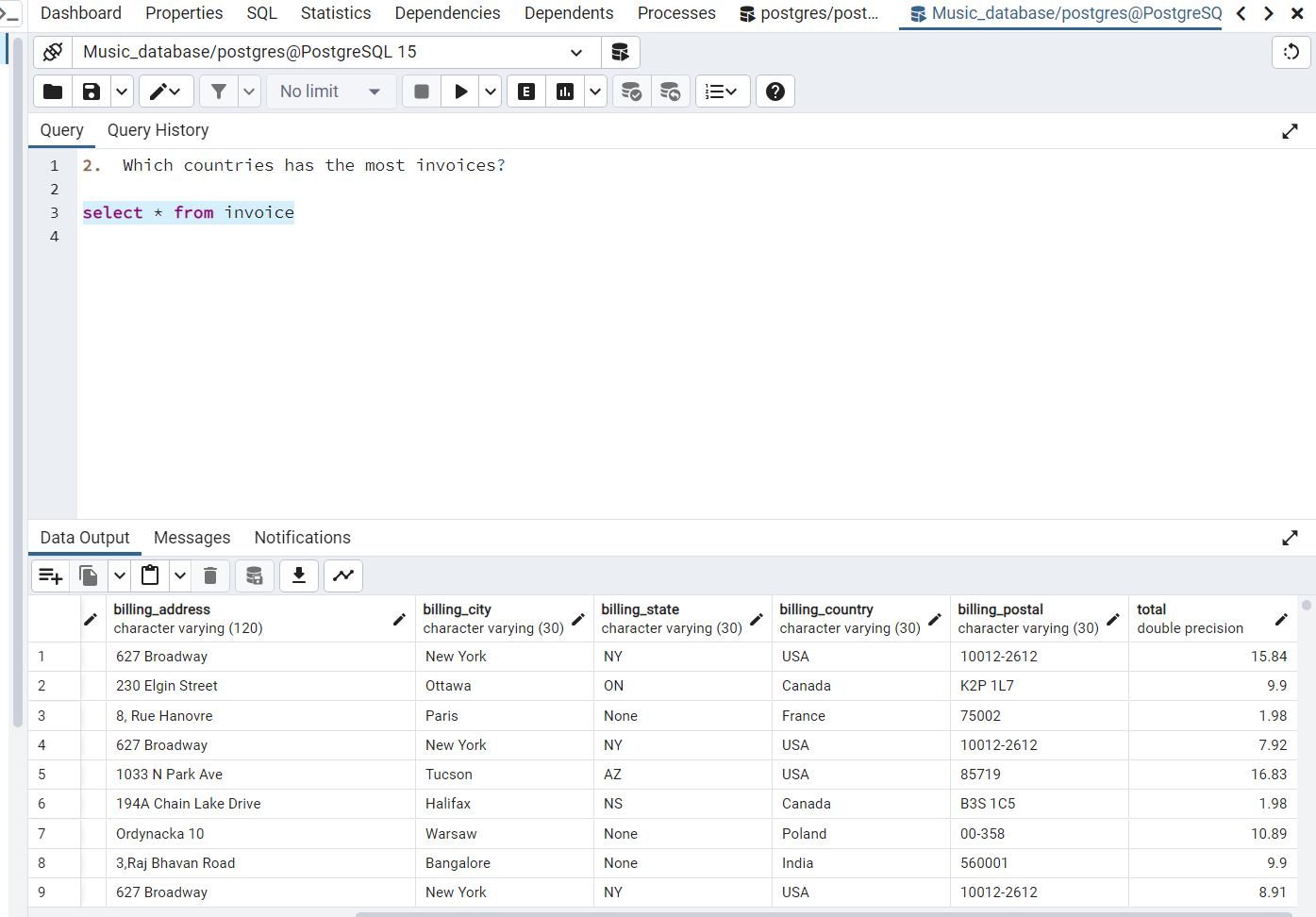
1. Who is the senior most employee based on job title?

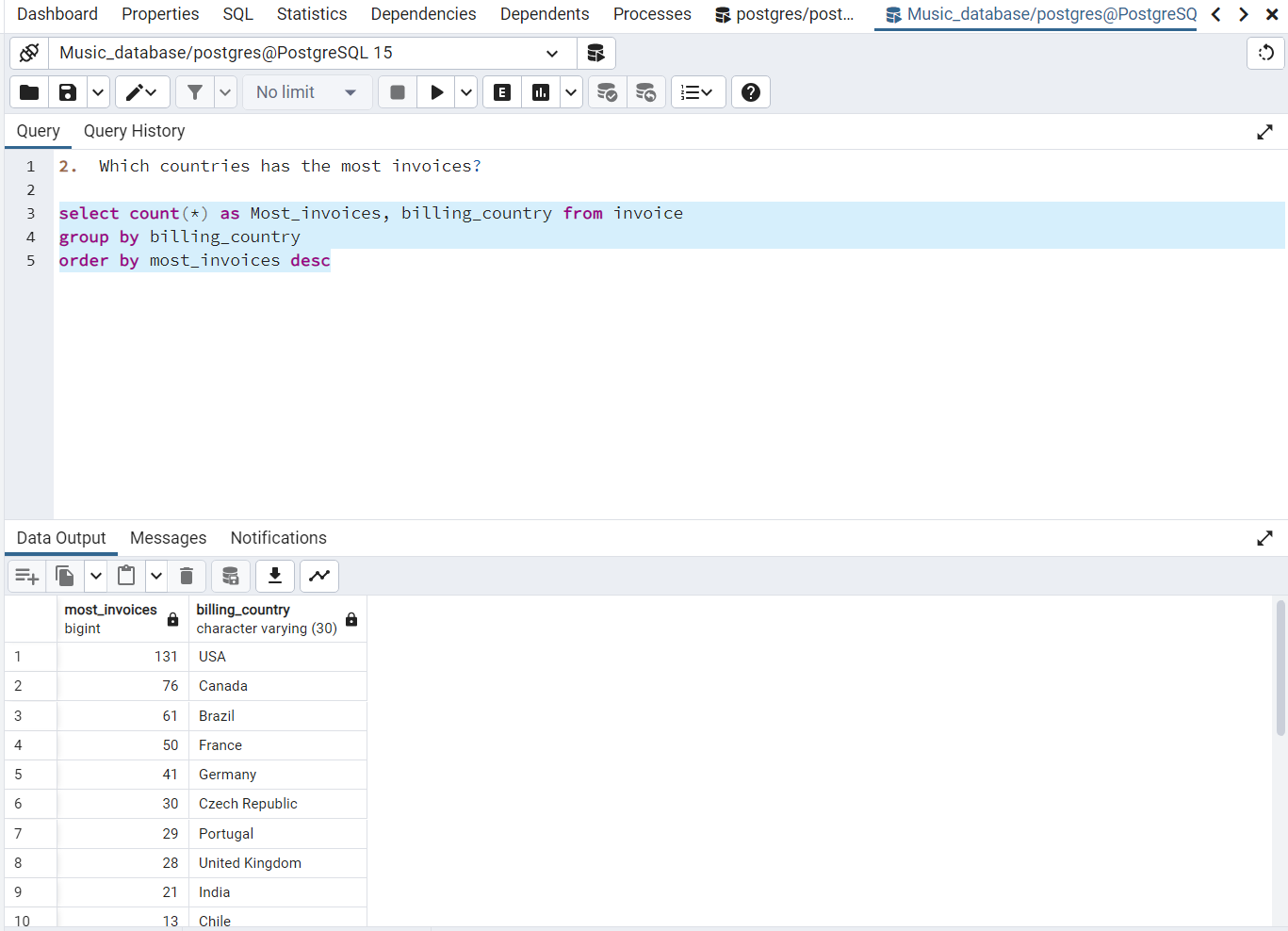




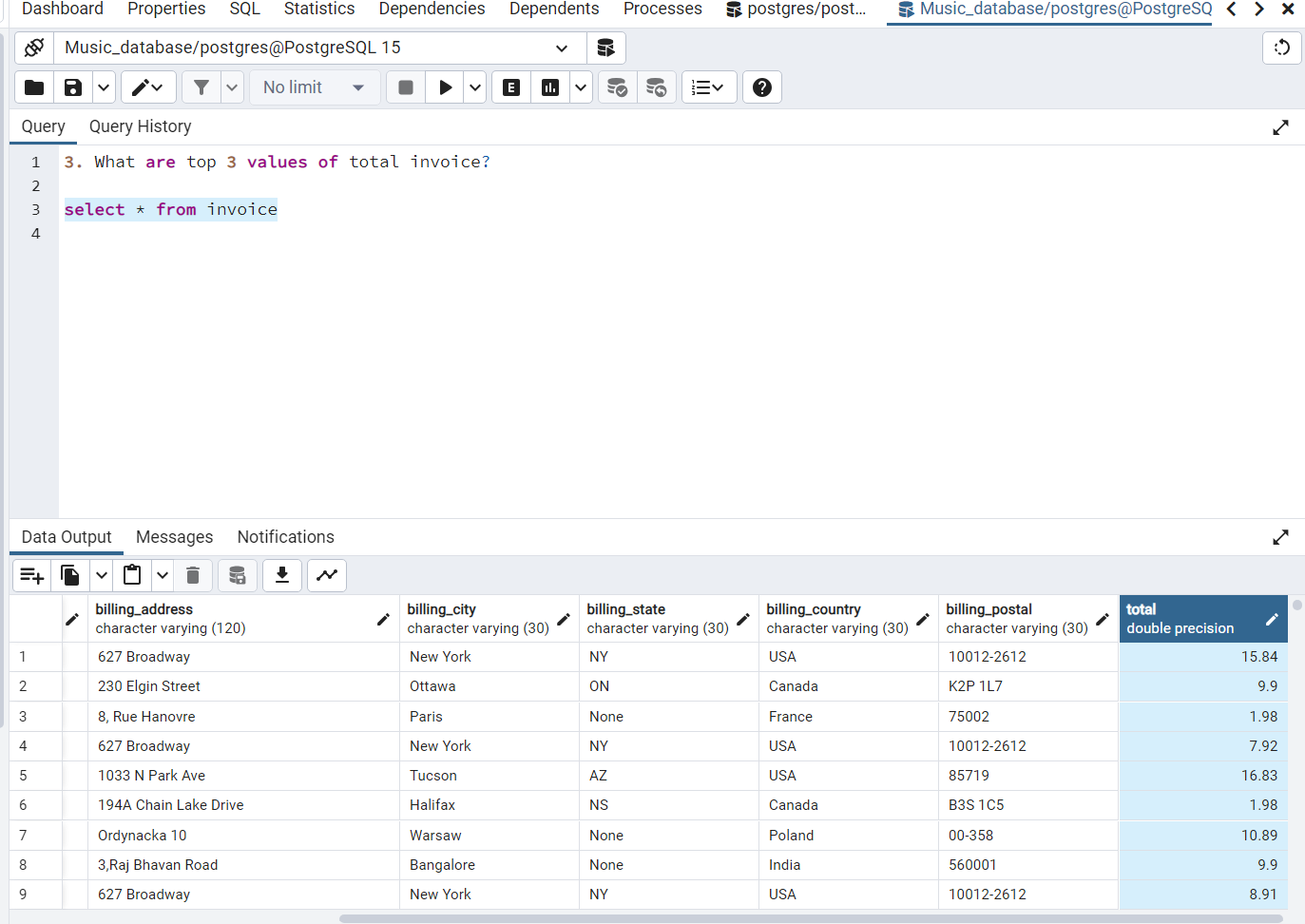


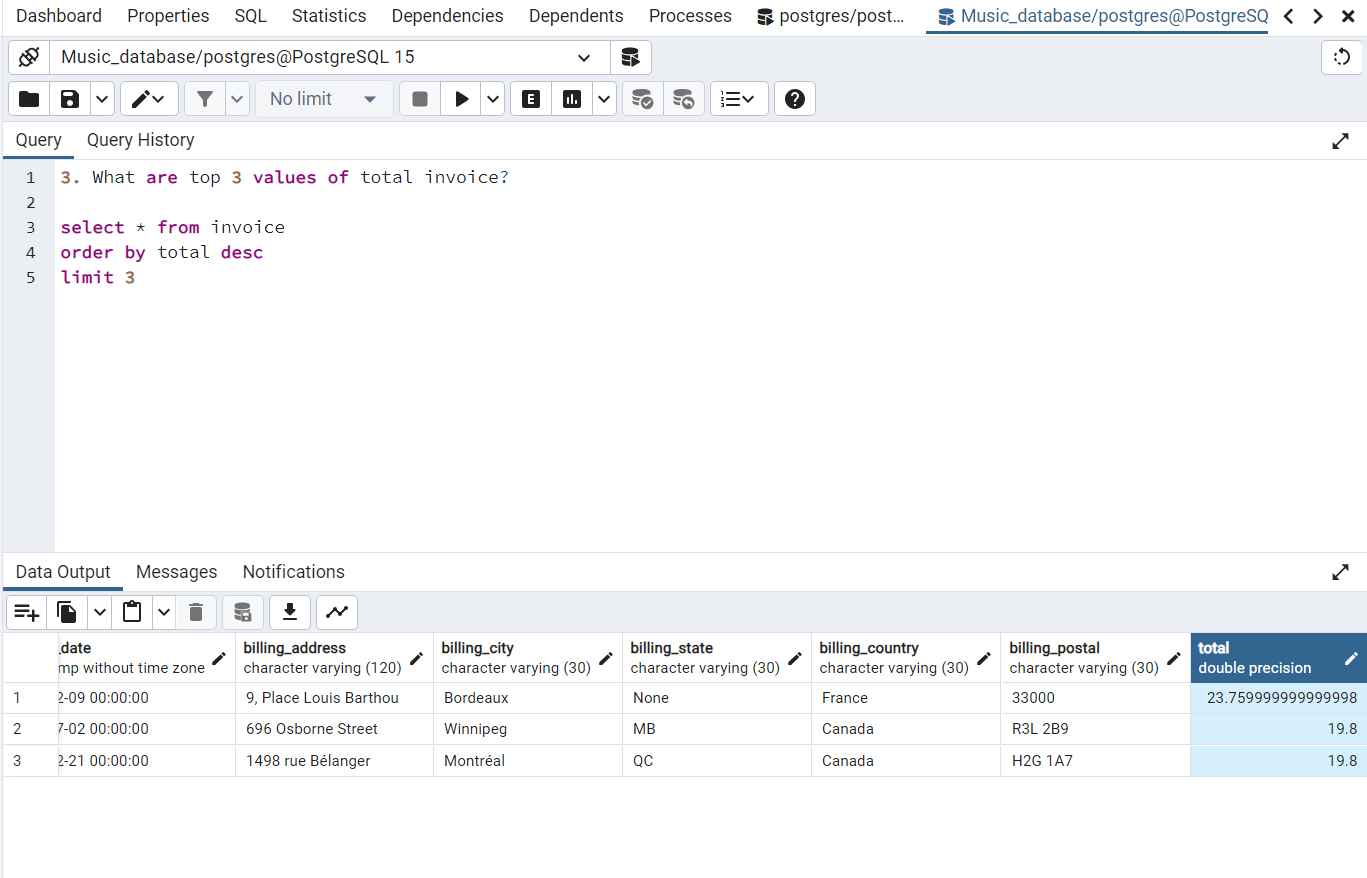
1. Which countries has the most invoices?

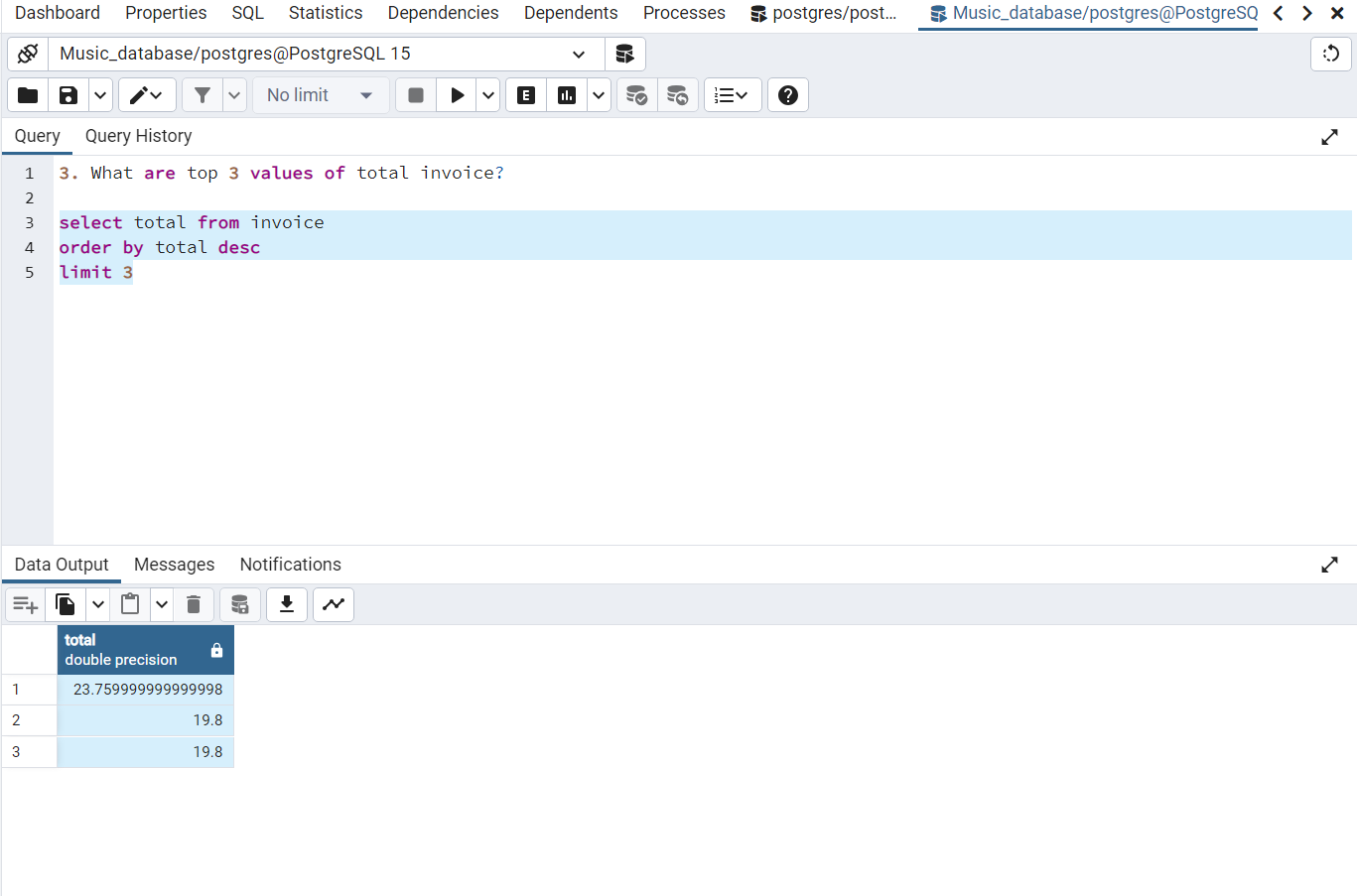




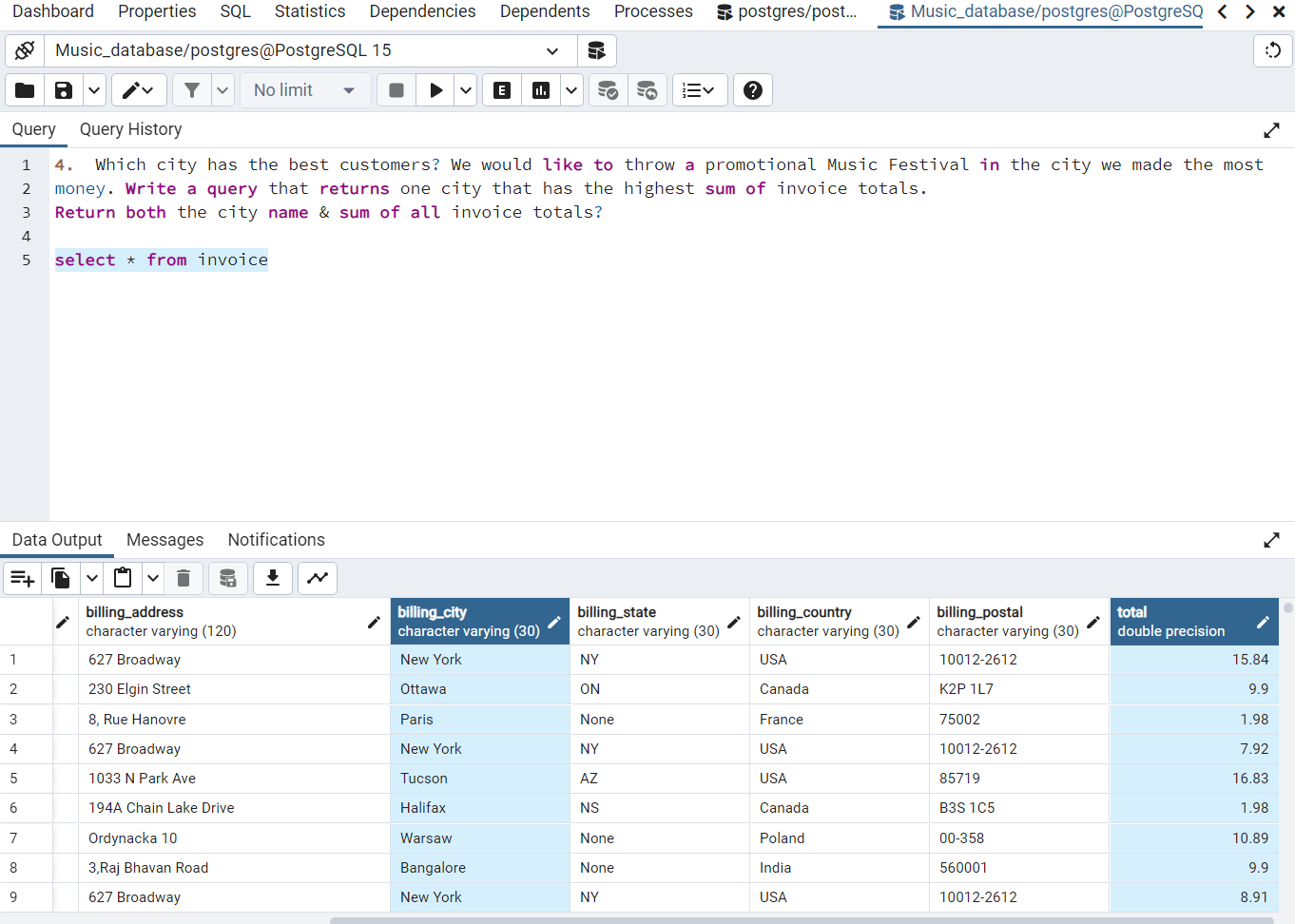
1. What are top 3 values of total invoice?

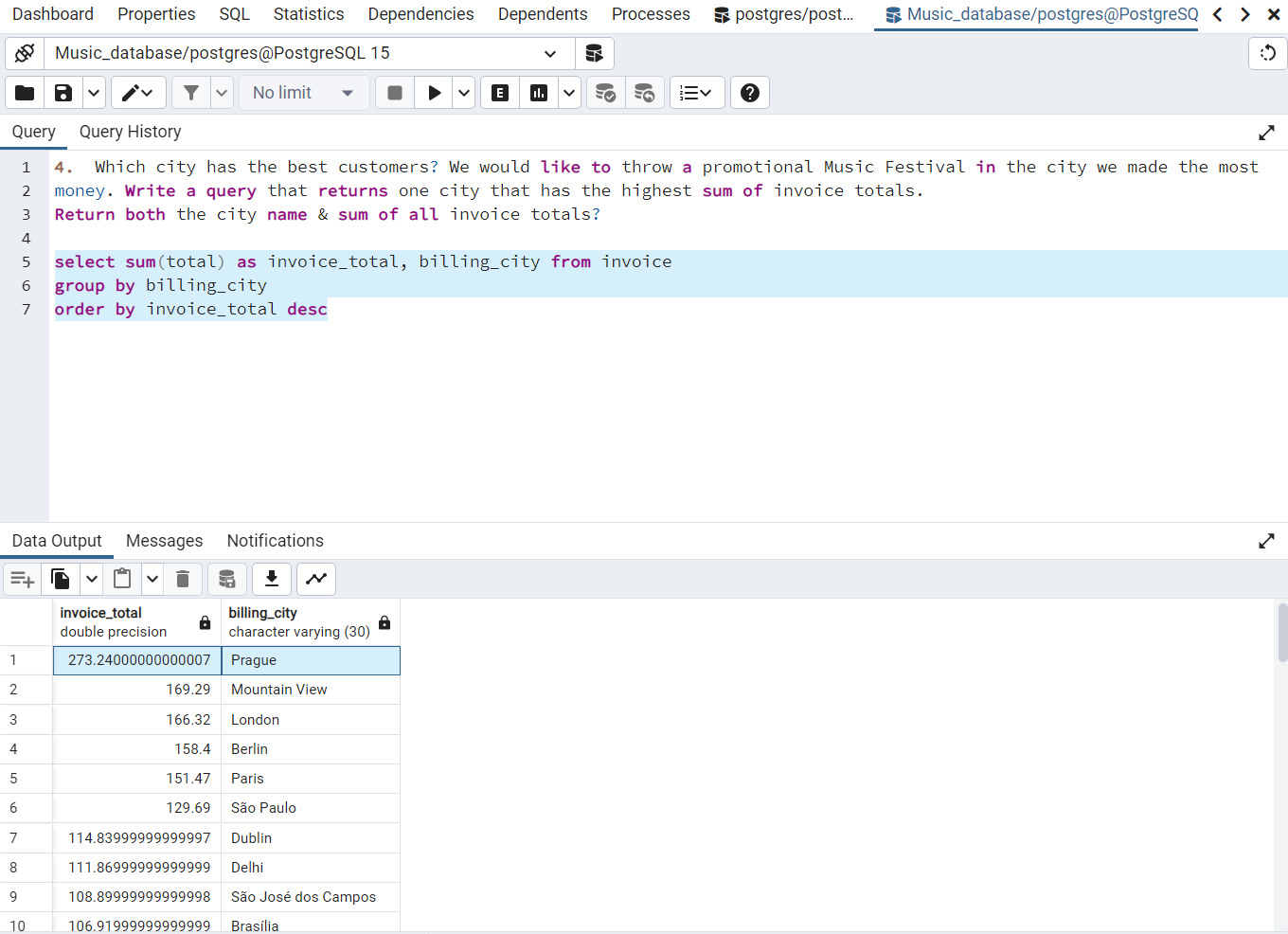




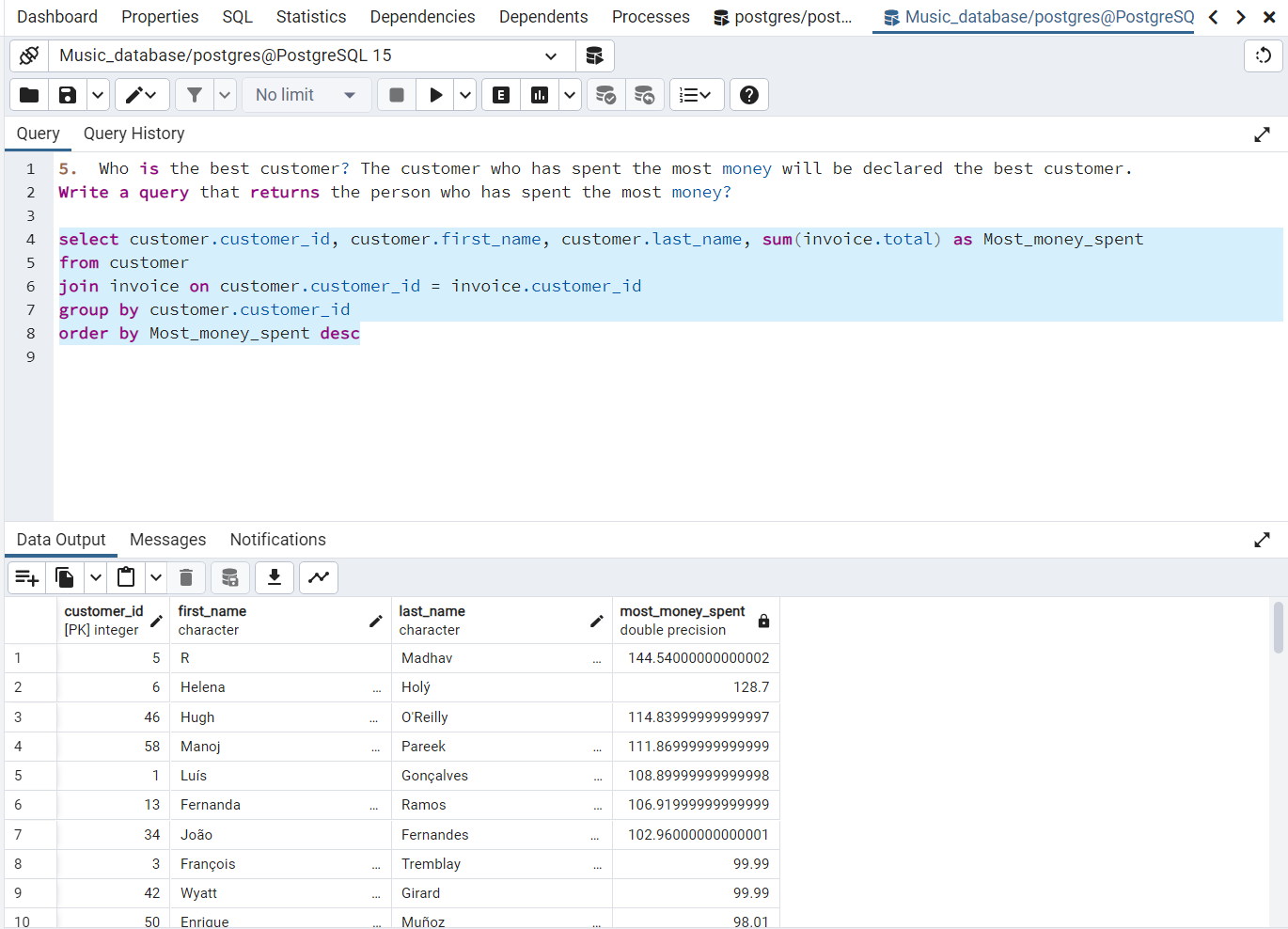


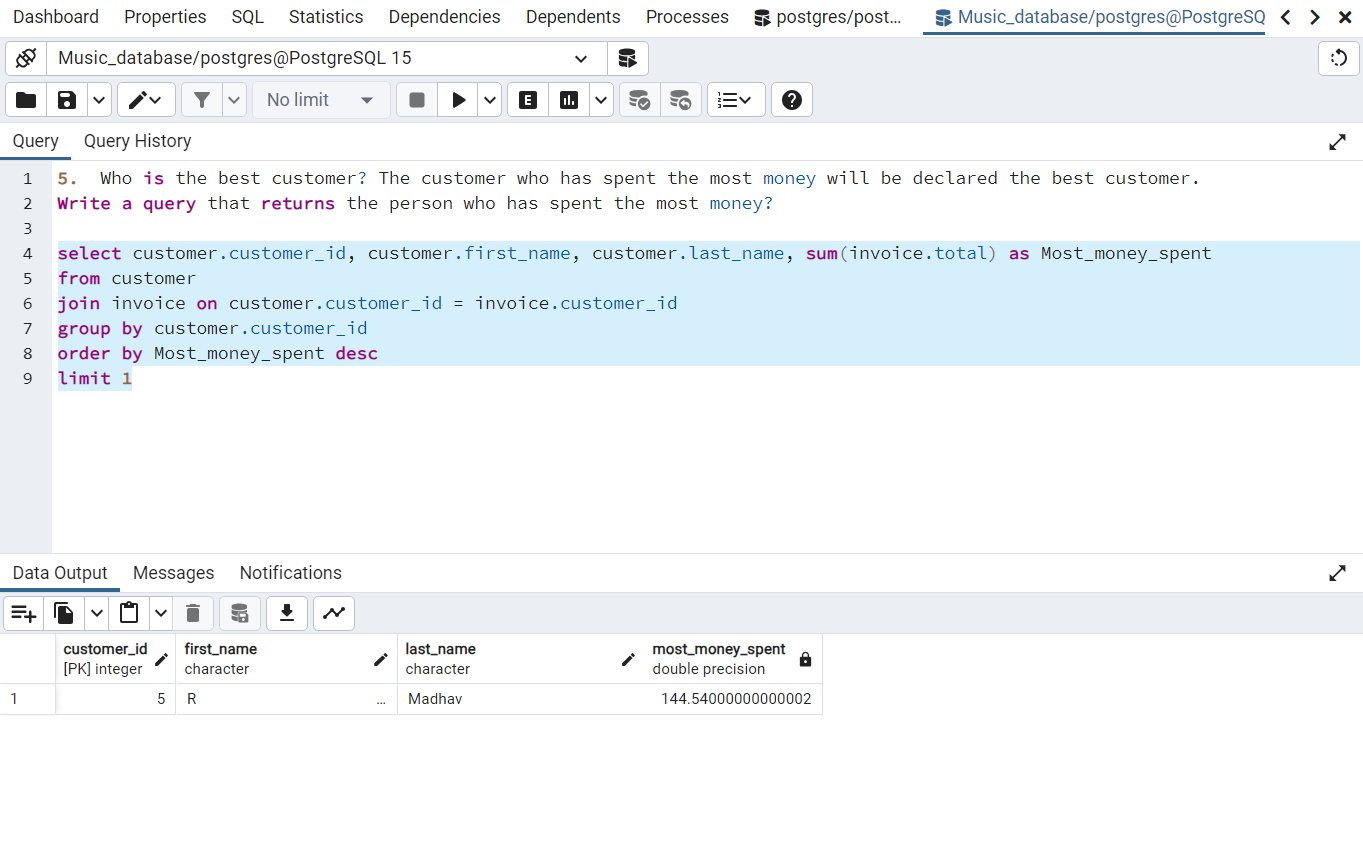
1. Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals?



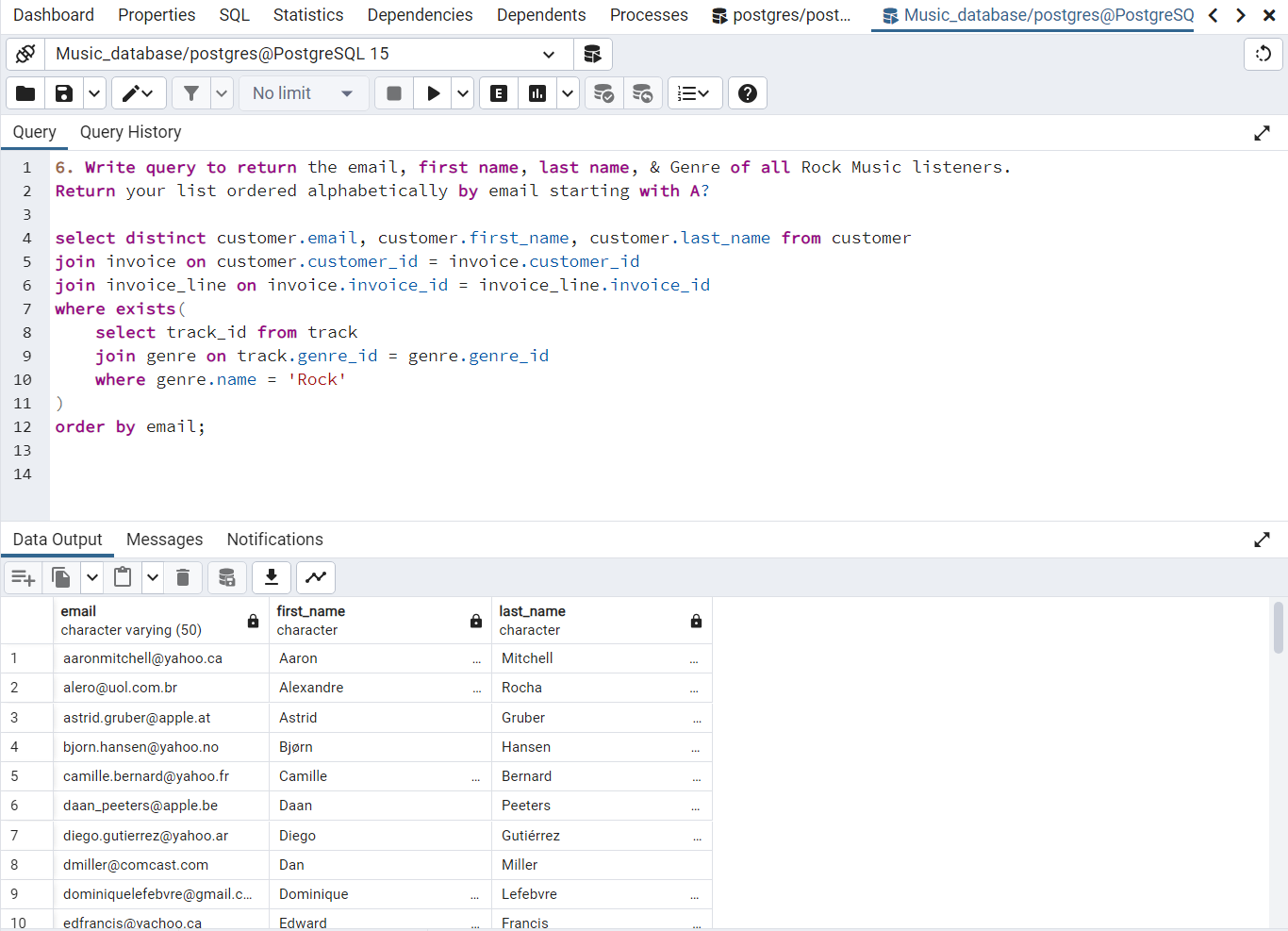


1. Who is the best customer? The customer who has spent the most money will be declared the best customer. Write a query that returns the person who has spent the most money?

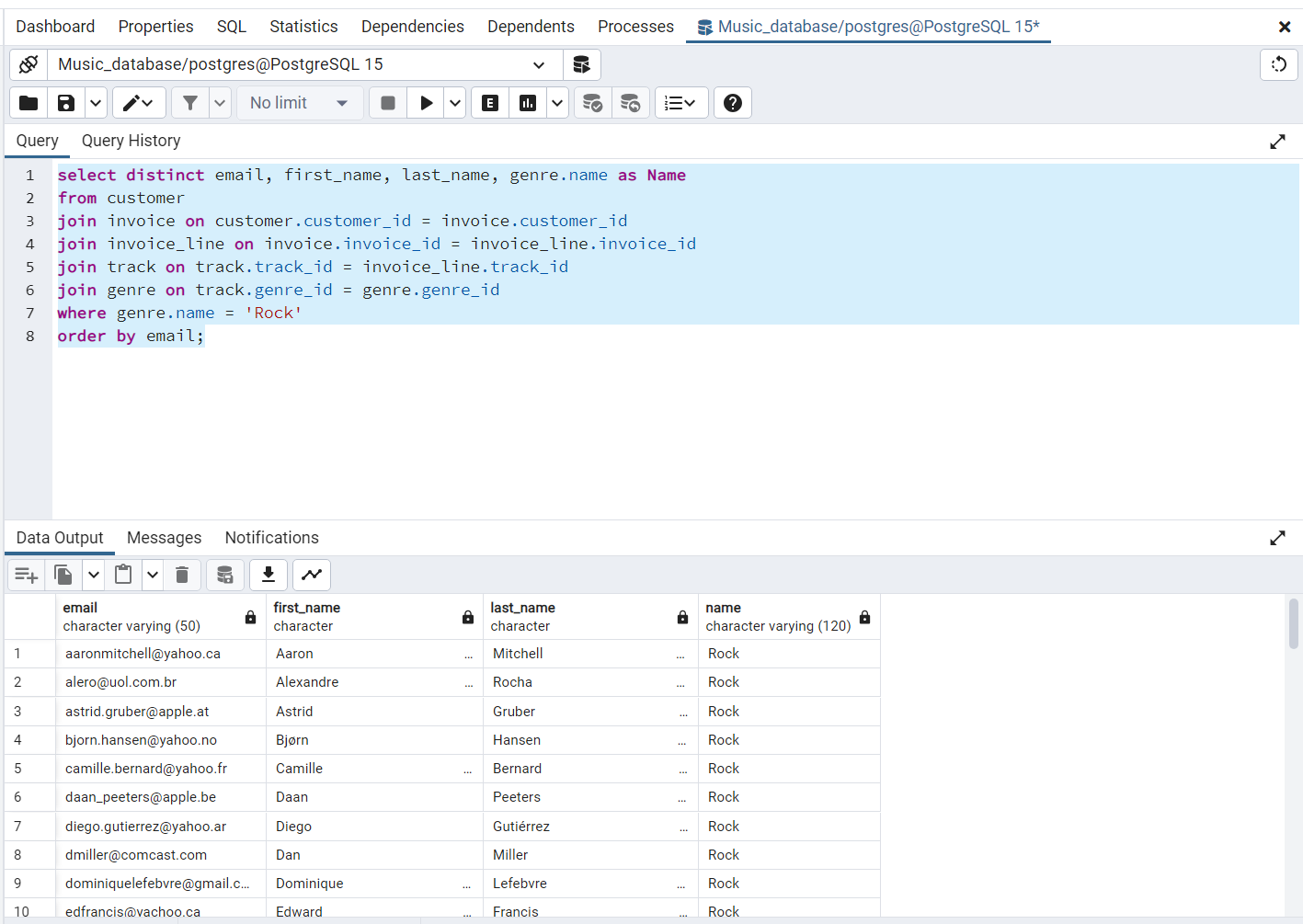




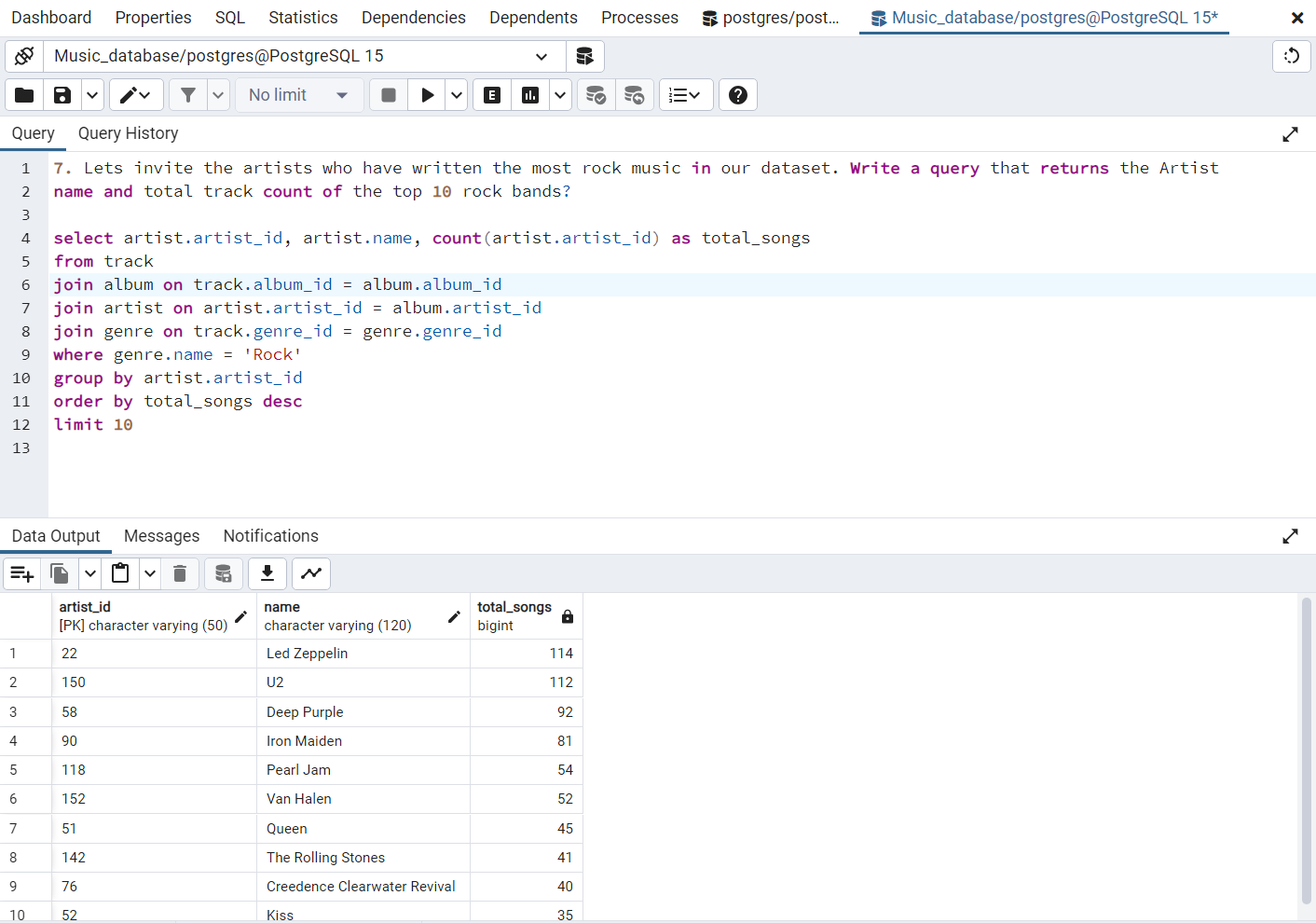
1. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A?



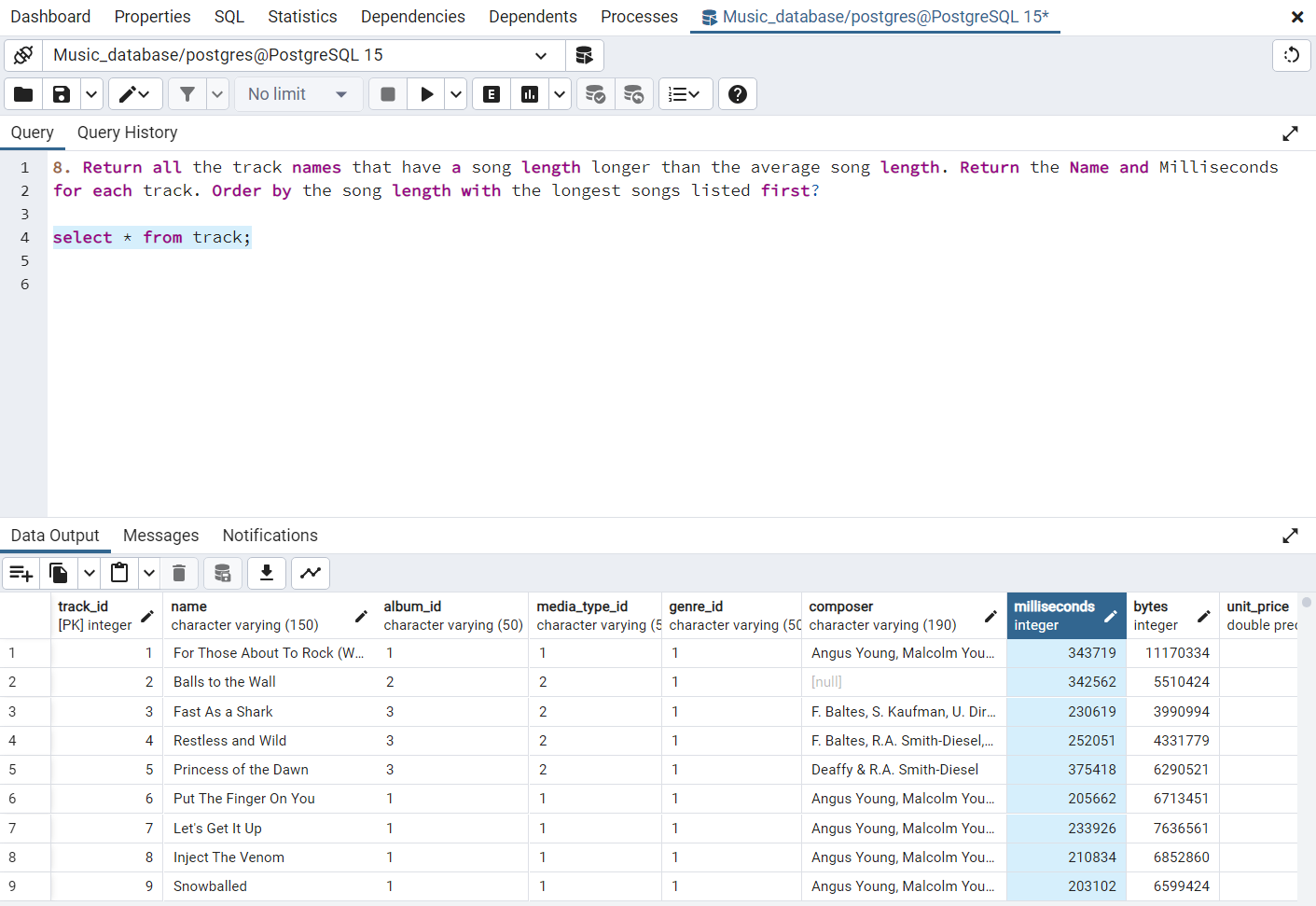
**OR (another way for same query)**

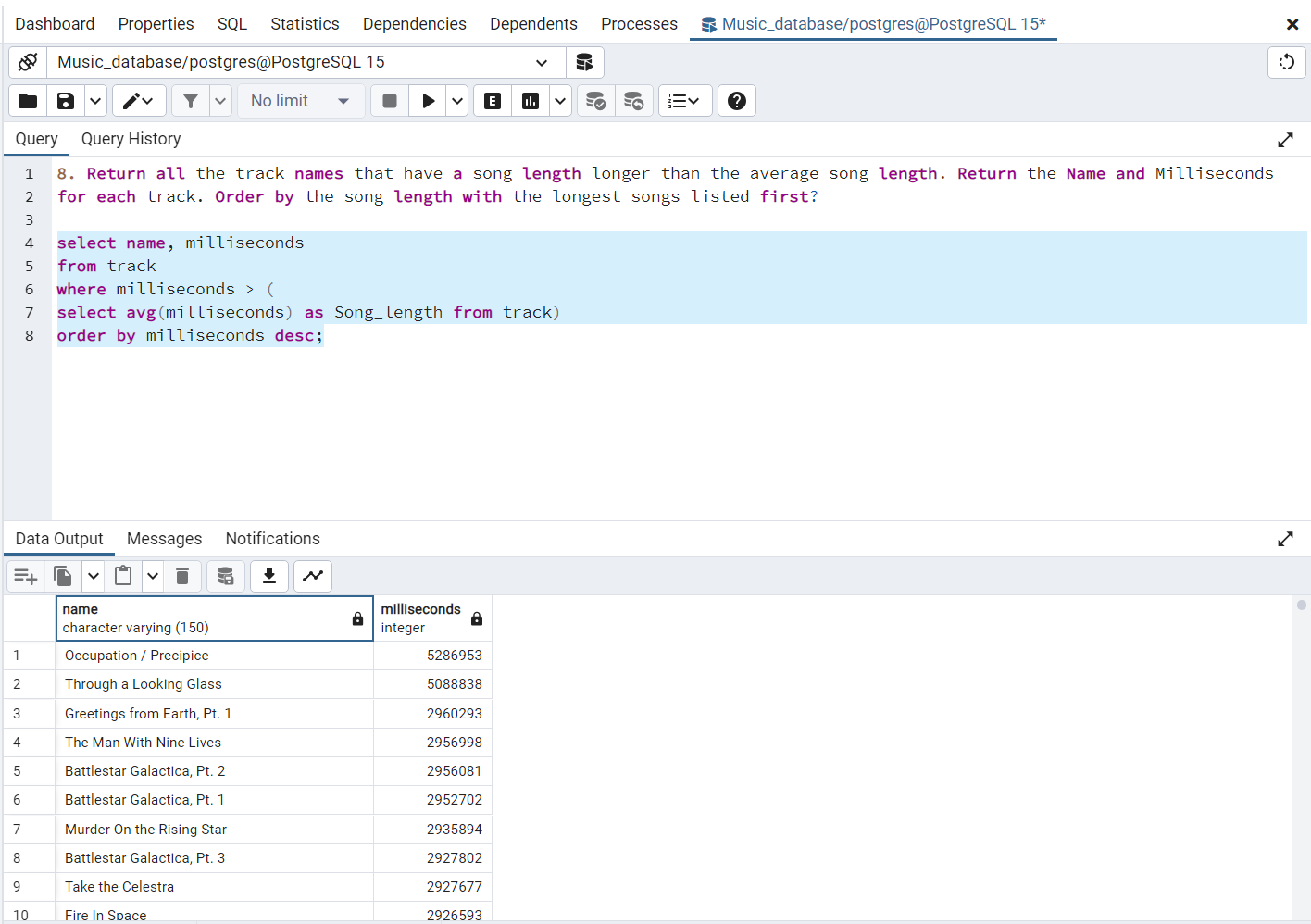


1. Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands?



1. 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?





1. 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 artist.artist\_id

ORDER BY total\_sales DESC

LIMIT 1

)

SELECT customer.customer\_id, customer.first\_name, customer.last\_name, best\_selling\_artist.artist\_name,

SUM(invoice\_line.unit\_price\*invoice\_line.quantity) AS amount\_spent

FROM invoice

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

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

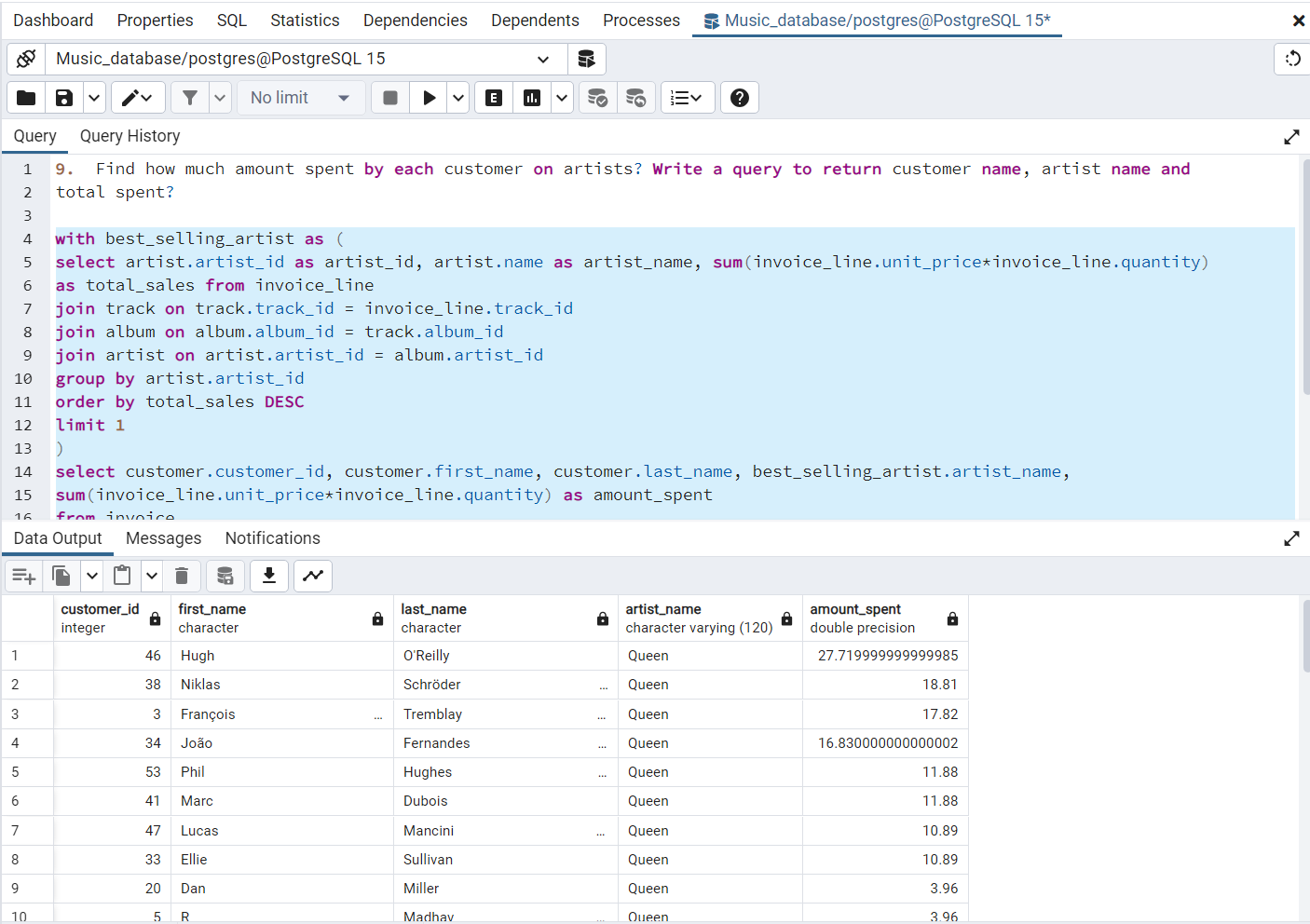
JOIN track ON track.track\_id = invoice\_line.track\_id

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

JOIN best\_selling\_artist ON best\_selling\_artist.artist\_id = album.artist\_id

GROUP BY customer.customer\_id, customer.first\_name, customer.last\_name, best\_selling\_artist.artist\_name

ORDER BY amount\_spent DESC;



1. 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 number 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

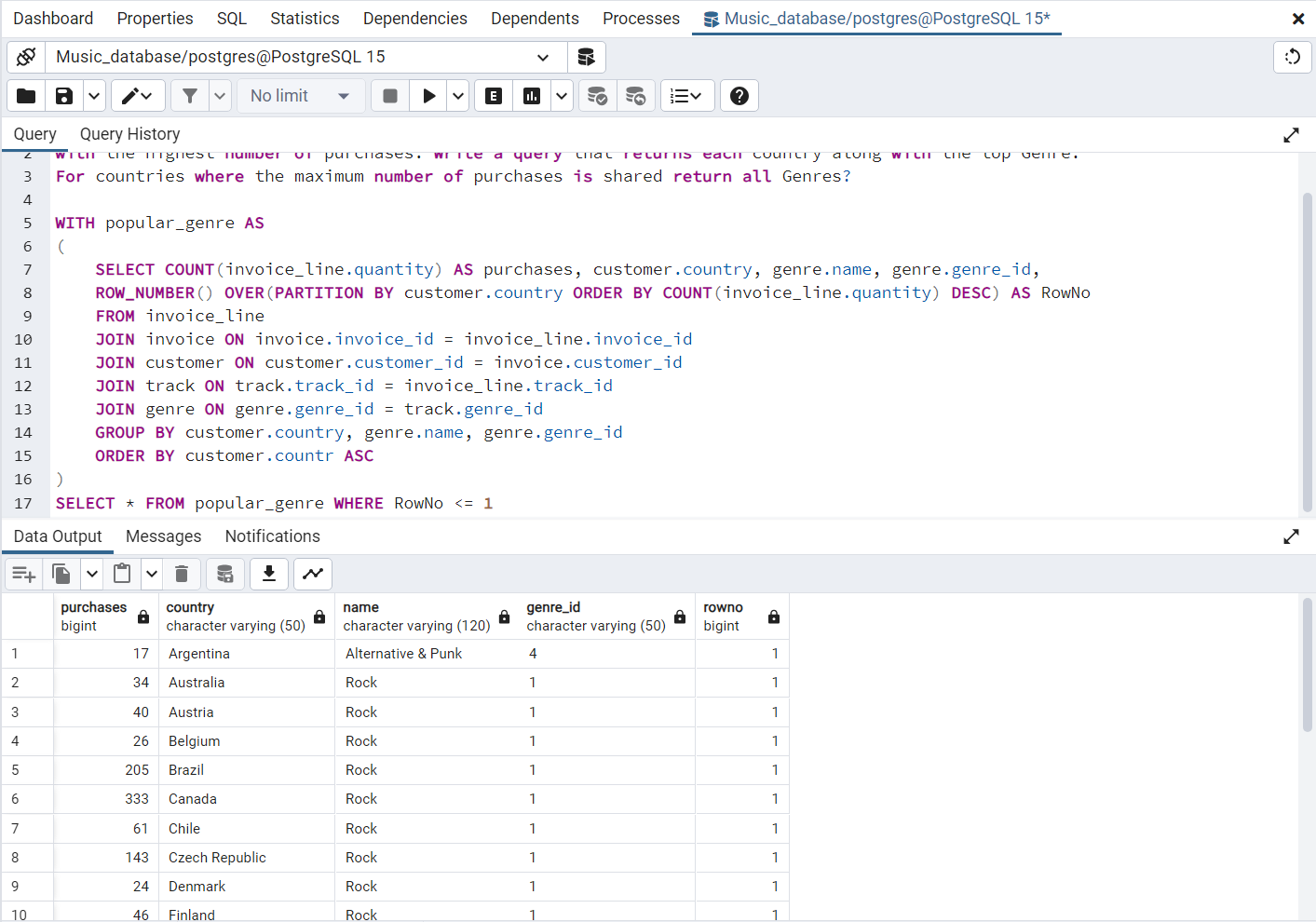
JOIN genre ON genre.genre\_id = track.genre\_id

GROUP BY customer.country, genre.name, genre.genre\_id

ORDER BY customer.country ASC

)

SELECT \* FROM popular\_genre WHERE RowNo <= 1



1. 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 Customer\_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 )

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

