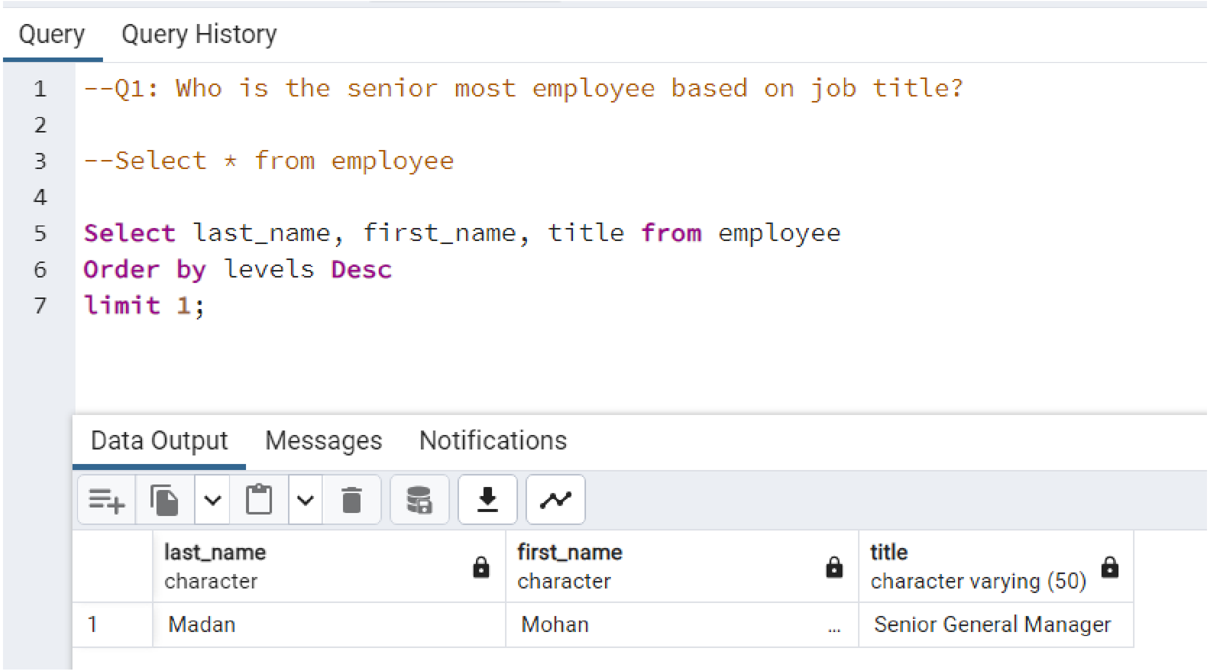
SQL ANALYSIS

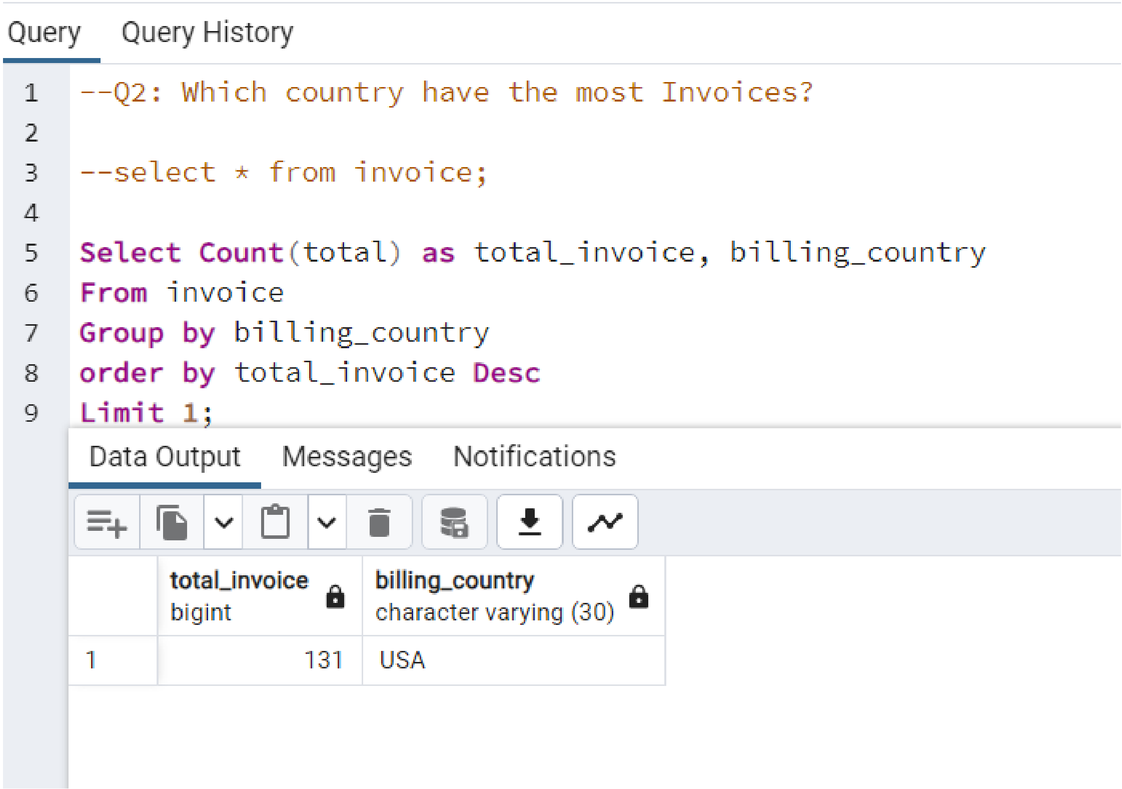
Q1: Who is the senior most employee based on job title?



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

--Select * from employee

Select last_name, first_name, title from employee
Order by levels Desc
limit 1;
```

	last_name character	first_name character	title character varying (50)
1	Madan	Mohan ...	Senior General Manager

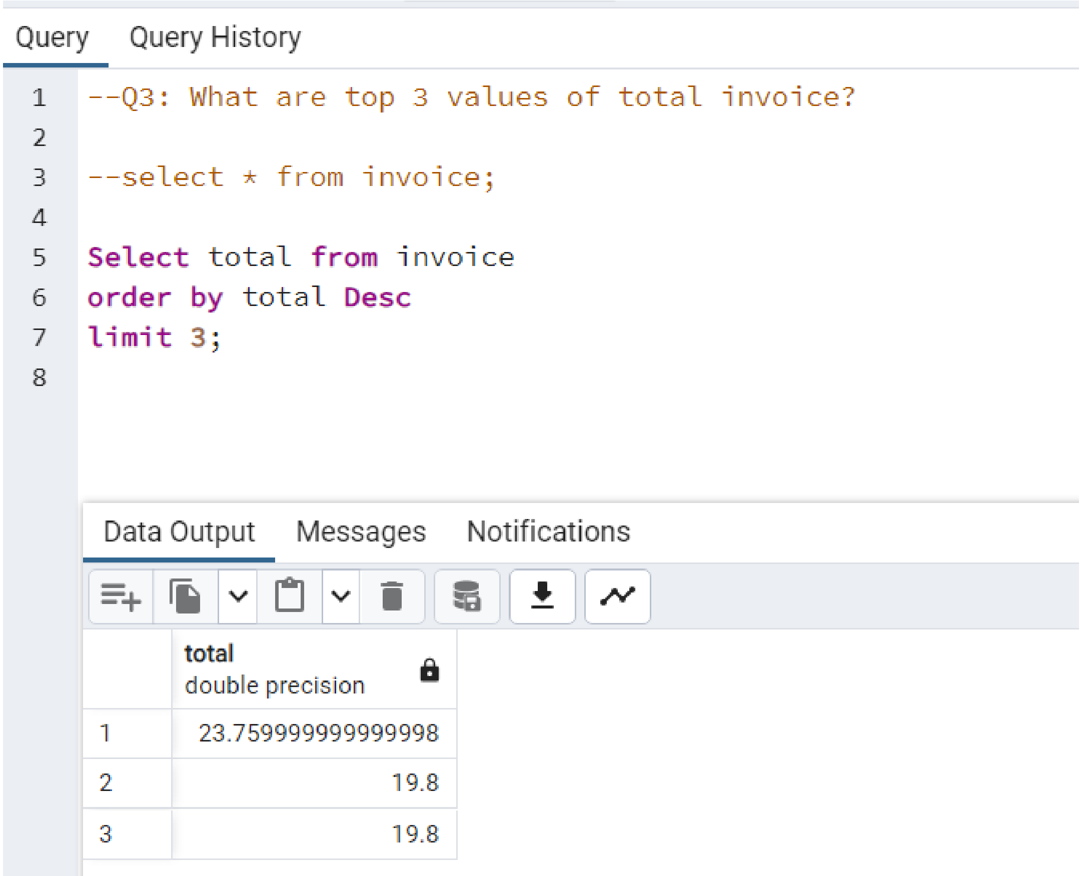
Q2: Which country have the most Invoices?



```
--Q2: Which country have the most Invoices?

--select * from invoice;

Select Count(total) as total_invoice, billing_country
From invoice
Group by billing_country
order by total_invoice Desc
Limit 1;
```

	total_invoice bigint	billing_country character varying (30)
1	131	USA

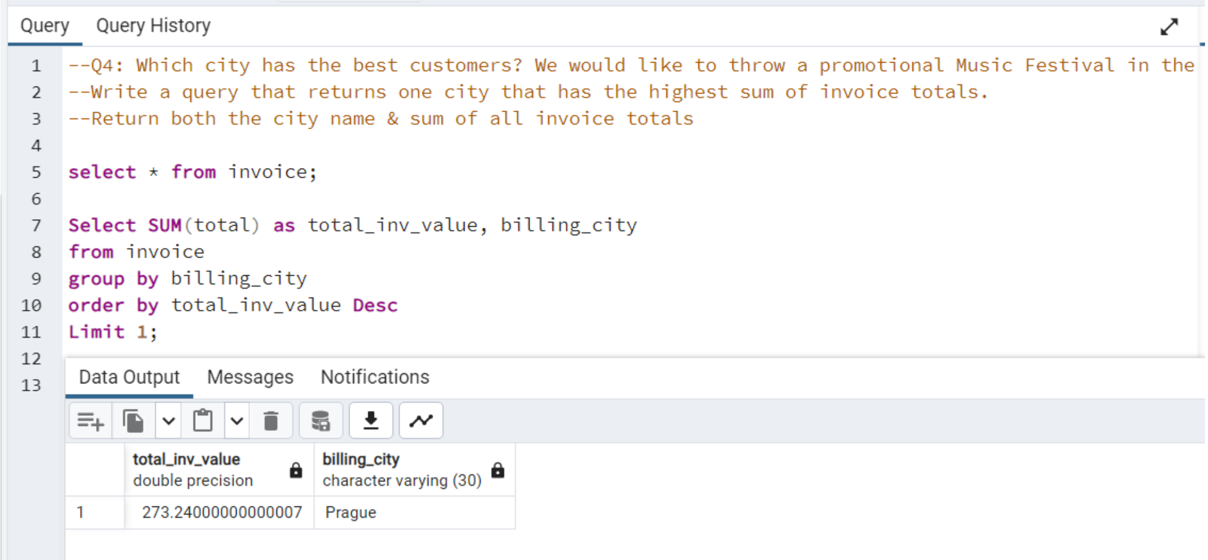
Q3: What are top 3 values of total invoice?



```
--Q3: What are top 3 values of total invoice?

--select * from invoice;

Select total from invoice
order by total Desc
limit 3;

```

	total double precision
1	23.759999999999998
2	19.8
3	19.8

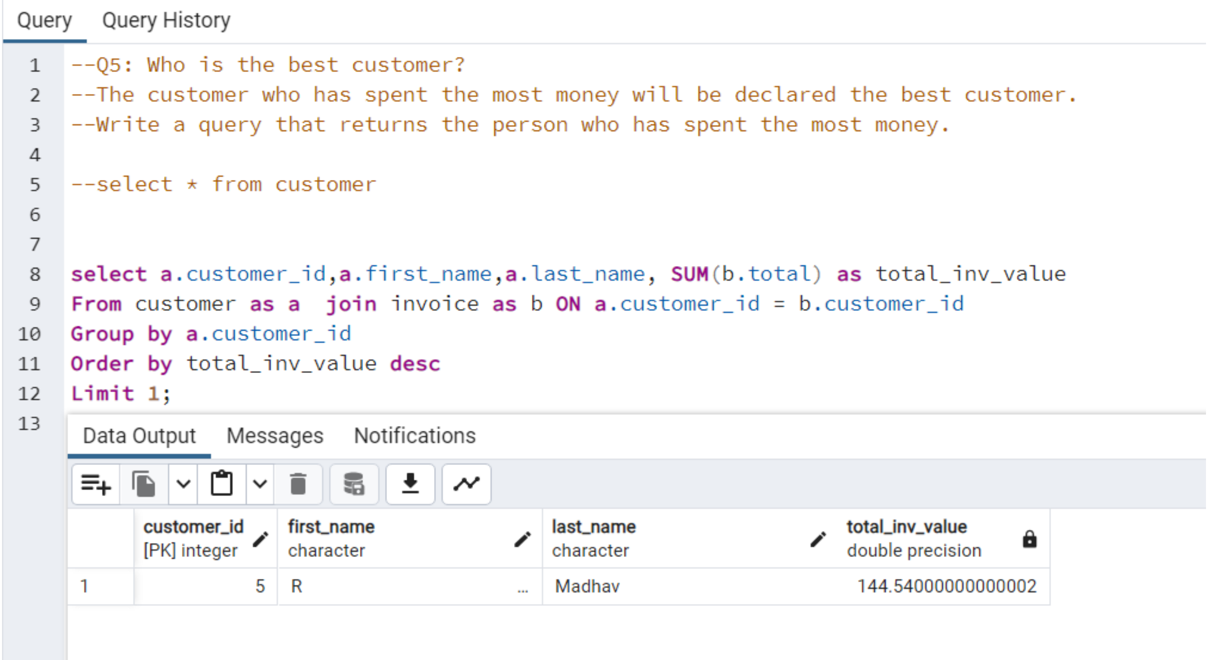
Q4: Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money. Write a query that returns one city that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals



```
--Q4: Which city has the best customers? We would like to throw a promotional Music Festival in the
--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 * from invoice;

Select SUM(total) as total_inv_value, billing_city
from invoice
group by billing_city
order by total_inv_value Desc
Limit 1;

```

	total_inv_value double precision	billing_city character varying (30)
1	273.24000000000007	Prague

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.

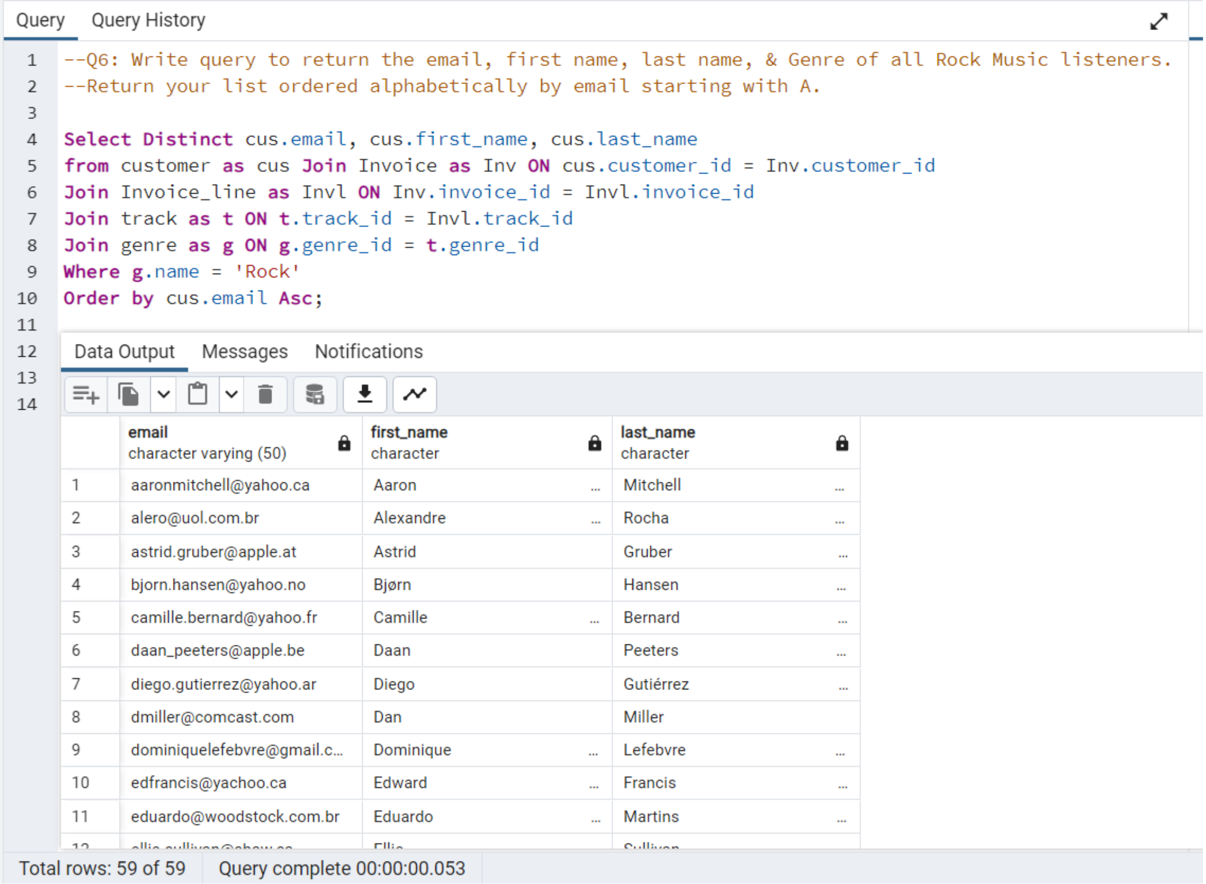


```
--Q5: Who is the best customer?
--The customer who has spent the most money will be declared the best customer.
--Write a query that returns the person who has spent the most money.

--select * from customer


select a.customer_id,a.first_name,a.last_name, SUM(b.total) as total_inv_value
From customer as a  join invoice as b ON a.customer_id = b.customer_id
Group by a.customer_id
Order by total_inv_value desc
Limit 1;
```

	customer_id [PK] integer	first_name character	last_name character	total_inv_value double precision
1	5	R	Madhav	144.54000000000002

Q6: 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.

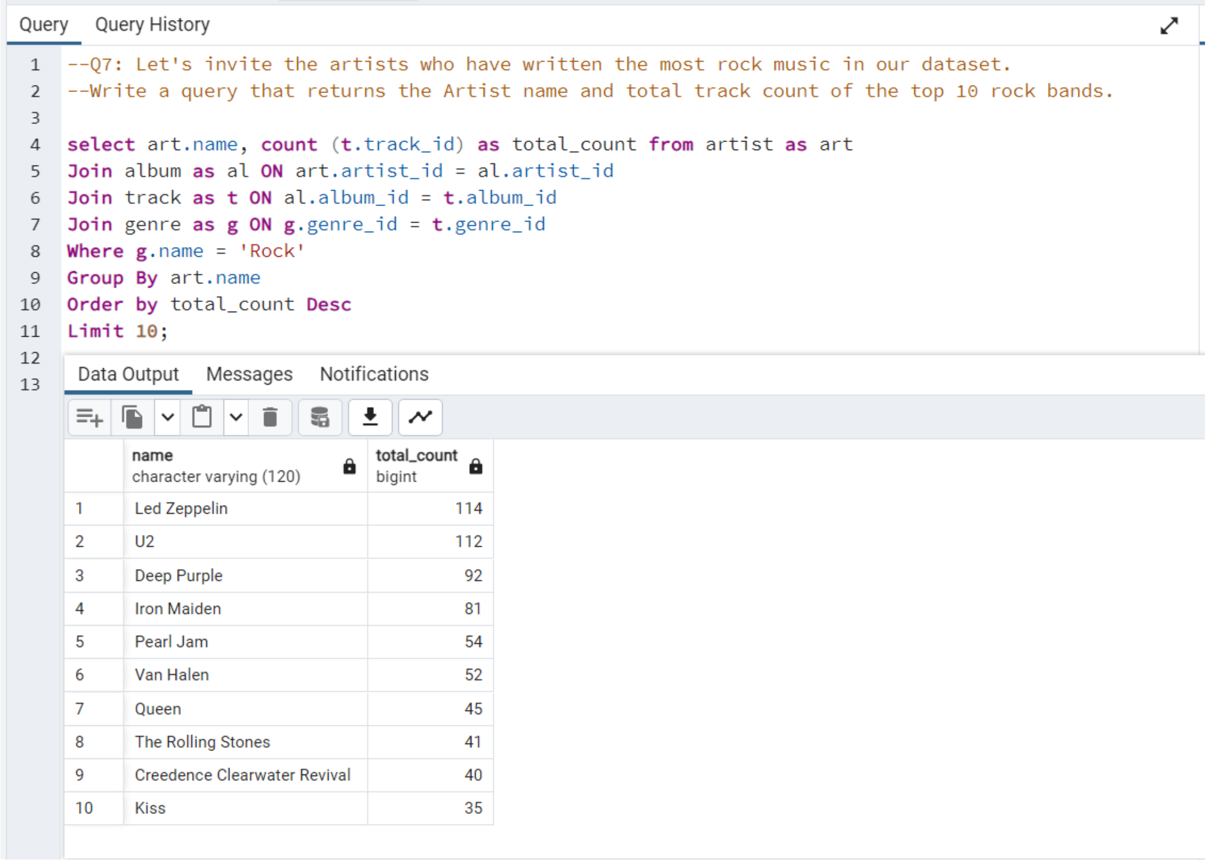


```
--Q6: Write query to return the email, first name, last name, & Genre of all Rock Music listeners.
--Return your list ordered alphabetically by email starting with A.

Select Distinct cus.email, cus.first_name, cus.last_name
from customer as cus Join Invoice as Inv ON cus.customer_id = Inv.customer_id
Join Invoice_line as Invl ON Inv.invoice_id = Invl.invoice_id
Join track as t ON t.track_id = Invl.track_id
Join genre as g ON g.genre_id = t.genre_id
Where g.name = 'Rock'
Order by cus.email Asc;
```

	email character varying (50)	first_name character	last_name character
1	aaronmitchell@yahoo.ca	Aaron	Mitchell
2	alero@uol.com.br	Alexandre	Rocha
3	astrid.gruber@apple.at	Astrid	Gruber
4	bjorn.hansen@yahoo.no	Bjørn	Hansen
5	camille.bernard@yahoo.fr	Camille	Bernard
6	daan_peeters@apple.be	Daan	Peeters
7	diego.gutierrez@yahoo.ar	Diego	Gutiérrez
8	dmiller@comcast.com	Dan	Miller
9	dominiquelefebvre@gmail.c...	Dominique	Lefebvre
10	edfrancis@yachoo.ca	Edward	Francis
11	eduardo@woodstock.com.br	Eduardo	Martins
12	ellie.sullivan@shaw.ca	Ellie	Sullivan

Total rows: 59 of 59   Query complete 00:00:00.053

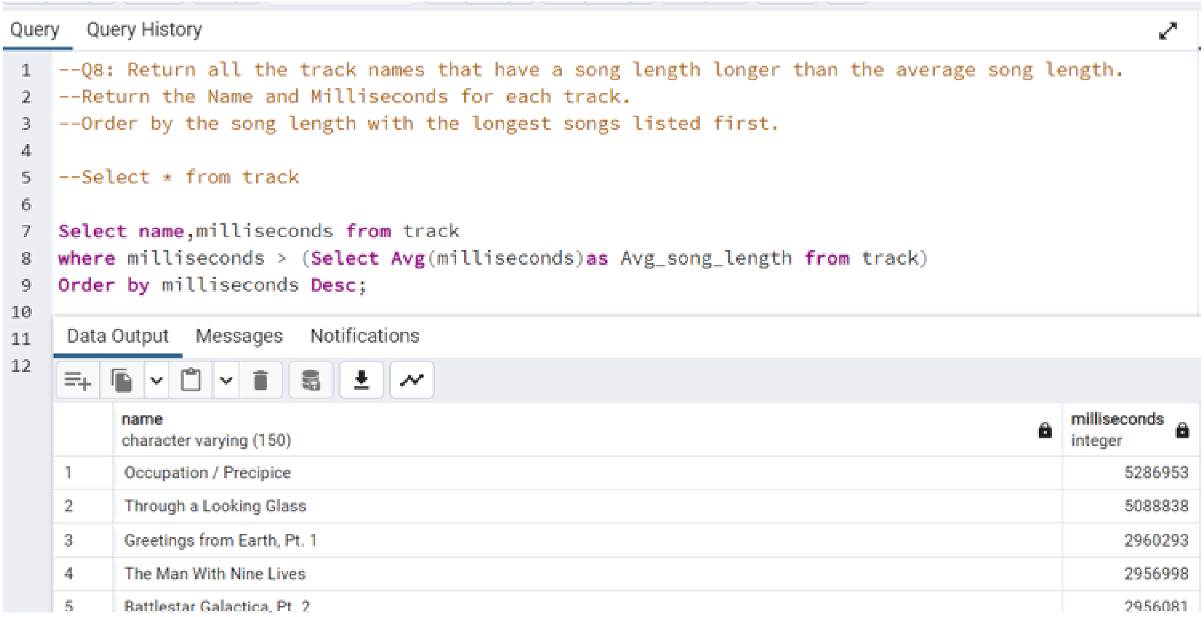
Q7: Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands.



```sql
--Q7: 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 art.name, count (t.track_id) as total_count from artist as art
Join album as al ON art.artist_id = al.artist_id
Join track as t ON al.album_id = t.album_id
Join genre as g ON g.genre_id = t.genre_id
Where g.name = 'Rock'
Group By art.name
Order by total_count Desc
Limit 10;
```

	name character varying (120)	total_count bigint
1	Led Zeppelin	114
2	U2	112
3	Deep Purple	92
4	Iron Maiden	81
5	Pearl Jam	54
6	Van Halen	52
7	Queen	45
8	The Rolling Stones	41
9	Creedence Clearwater Revival	40
10	Kiss	35

Q8: 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.



```sql
--Q8: 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 * from track

Select name,milliseconds from track
where milliseconds > (Select Avg(milliseconds)as Avg_song_length from track)
Order by milliseconds Desc;
```

	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