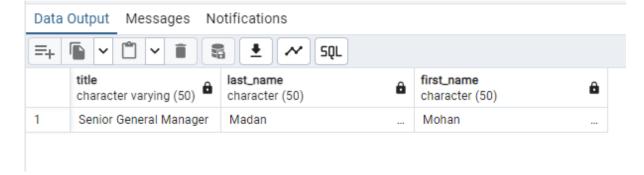
# MUSIC STORE DATA EXPLORATION USING SQL

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

SELECT title, last\_name, first\_name FROM employee ORDER BY levels DESC LIMIT 1



## -- Q2: Which countries have the most Invoices?

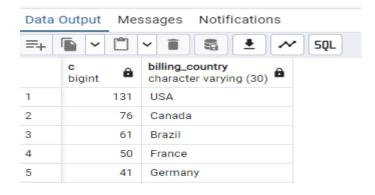
SELECT COUNT(\*) AS c, billing\_country FROM invoice GROUP BY billing\_country ORDER BY c DESC

-- Q2: Which countries have the most Invoices?

FROM invoice

GROUP BY billing\_country

ORDER BY c DESC

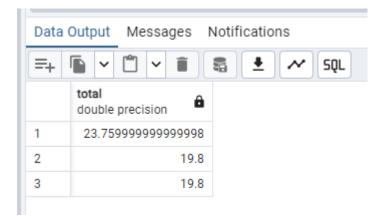


### -- Q3: What are top 3 values of total invoice?

SELECT total FROM invoice ORDER BY total DESC LIMIT 3

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

SELECT total
FROM invoice
ORDER BY total DESC
LIMIT 3

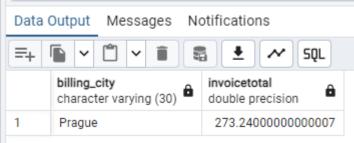


/\* Q4: Which city has the best customers? We would like to throw a promotional Music Festival in the city we made the most money.

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 InvoiceTotal FROM invoice
GROUP BY billing\_city
ORDER BY InvoiceTotal DESC
LIMIT 1;

# Query Query History 24 v /\* Q4: Which city has the best customers? 25 We would like to throw a promotional Music Festival in the city we made the most money. 26 Write a query that returns one city that has the highest sum of invoice totals. 27 Return both the city name & sum of all invoice totals \*/ 28 29 SELECT billing\_city, SUM(total) AS InvoiceTotal 30 FROM invoice 31 GROUP BY billing\_city 32 ORDER BY InvoiceTotal DESC 33 LIMIT 1; Data Output Messages Notifications



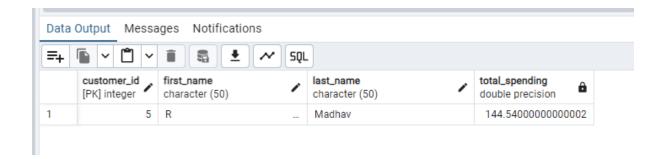
### /\* Q5: Who is the best customer?

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 customer.customer\_id, first\_name, last\_name, SUM(total) AS total\_spending FROM customer
JOIN invoice ON customer.customer\_id = invoice.customer\_id
GROUP BY customer.customer\_id
ORDER BY total\_spending 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 customer.customer_id, first_name, last_name, SUM(total) AS total_spending
FROM customer
JOIN invoice ON customer.customer_id = invoice.customer_id
GROUP BY customer.customer_id
ORDER BY total_spending DESC
LIMIT 1;
```



/\* 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 email AS Email,first\_name AS FirstName, last\_name AS LastName, genre.name AS Name

FROM customer

JOIN invoice ON invoice.customer\_id = customer.customer\_id JOIN invoice\_line ON invoice\_line.invoice\_id = invoice.invoice\_id JOIN track ON track.track\_id = invoice\_line.track\_id JOIN genre ON genre.genre\_id = track.genre\_id WHERE genre.name LIKE 'Rock' ORDER BY email;

```
/* 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 email AS Email, first_name AS FirstName, last_name AS LastName, genre.name
AS Name
FROM customer
JOIN invoice ON invoice.customer_id = customer.customer_id
JOIN invoice_line ON invoice_line.invoice_id = invoice.invoice_id
JOIN track ON track.track_id = invoice_line.track_id
JOIN genre ON genre.genre_id = track.genre_id
WHERE genre.name LIKE 'Rock'
ORDER BY email;
```

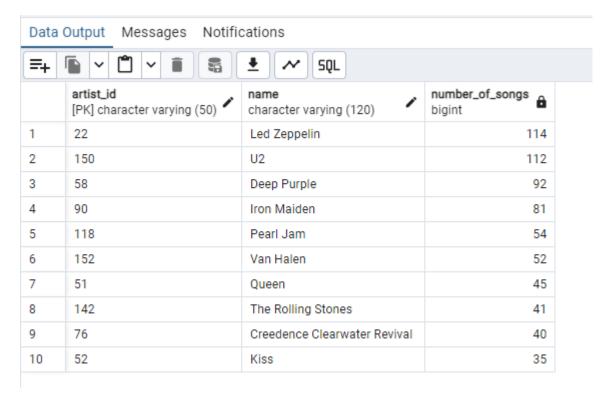
=+		<b>♣</b>				
	email character varying (50)	firstname character (50)	â	lastname character (50)	â	name character varying (120) €
1	aaronmitchell@yahoo.ca	Aaron		Mitchell		Rock
2	alero@uol.com.br	Alexandre		Rocha		Rock
3	astrid.gruber@apple.at	Astrid		Gruber		Rock
4	bjorn.hansen@yahoo.no	Bjørn		Hansen		Rock
5	camille.bernard@yahoo.fr	Camille		Bernard		Rock
6	daan_peeters@apple.be	Daan		Peeters		Rock
7	diego.gutierrez@yahoo.ar	Diego		Gutiérrez		Rock
8	dmiller@comcast.com	Dan		Miller		Rock
9	dominiquelefebvre@gmail.c	Dominique		Lefebvre		Rock
10	edfrancis@yachoo.ca	Edward		Francis		Rock
11	eduardo@woodstock.com.br	Eduardo		Martins		Rock
12	ellie.sullivan@shaw.ca	Ellie		Sullivan		Rock
13	emma_jones@hotmail.com	Emma		Jones		Rock
14	enrique_munoz@yahoo.es	Enrique		Muñoz		Rock
15	fernadaramos4@uol.com.br	Fernanda		Ramos		Rock

/\* 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 artist.artist id, artist.name, COUNT(artist.artist id) AS number of songs

```
FROM track
JOIN album ON album.album id = track.album id
JOIN artist ON artist_id = album.artist_id
JOIN genre ON genre.genre id = track.genre id
WHERE genre.name LIKE 'Rock'
GROUP BY artist.artist_id
ORDER BY number_of_songs DESC
LIMIT 10;
/\star 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 artist_artist_id, artist.name, COUNT(artist.artist_id) AS number_of_songs
FROM track
JOIN album ON album.album_id = track.album_id
JOIN artist ON artist.artist_id = album.artist_id
JOIN genre ON genre.genre_id = track.genre_id
WHERE genre.name LIKE 'Rock'
GROUP BY artist.artist_id
ORDER BY number_of_songs DESC
LIMIT 10;
```



/\* 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. \*/

=+	<b>▶</b> ∨ 🖺 ∨ <b>1</b> SQL	
•	name character varying (150)	milliseconds integer
l	Occupation / Precipice	52869
2	Through a Looking Glass	50888
}	Greetings from Earth, Pt. 1	29602
l	The Man With Nine Lives	29569
5	Battlestar Galactica, Pt. 2	29560
	Battlestar Galactica, Pt. 1	29527
	Murder On the Rising Star	29358
	Battlestar Galactica, Pt. 3	29278
	Take the Celestra	29276
0	Fire In Space	29265
1	The Long Patrol	29250
2	The Magnificent Warriors	29247
3	The Living Legend, Pt. 1	29245
4	The Gun On Ice Planet Zero, Pt. 2	29243
5	The Hand of God	29240
16	Experiment In Terra	20225