

Rocks Music Store Report

-- Q. What are the top 3 values of the total invoice?

```
SELECT total
FROM invoice
ORDER BY total DESC
LIMIT 3;
```

Data Output			Messages	Notifications
≡+	📄	▼	📋	▼
		🗑️	🗄️	⬇️
		📈	SQL	
	total			
	double precision	🔒		
1	23.759999999999998			
2		19.8		
3		19.8		

-- Q. Which countries have the most invoices?

```
SELECT billing_country, COUNT(*) AS total_count
FROM invoice
GROUP BY billing_country
ORDER BY total_count DESC;
```

Data Output			Messages	Notifications
≡+	📄	▼	📋	▼
		🗑️	🗄️	⬇️
		📈	SQL	
	billing_country		total_count	
	character varying (30)	🔒	bigint	🔒
1	USA		131	
2	Canada		76	
3	Brazil		61	
4	France		50	
5	Germany		41	
6	Czech Republic		30	
7	Portugal		29	
8	United Kingdom		28	
Total rows: 24 of 24			Query complete 00:00:00.292	

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

```
SELECT *
FROM employee
ORDER BY levels DESC
LIMIT 1;
```

Data Output Messages Notifications						
	employee_id [PK] character varying (50)	last_name character (50)	first_name character (50)	title character varying (50)	reports_to character varying (30)	levels character v
1	9	Madan	Mohan	Senior General Manager	[null]	L7

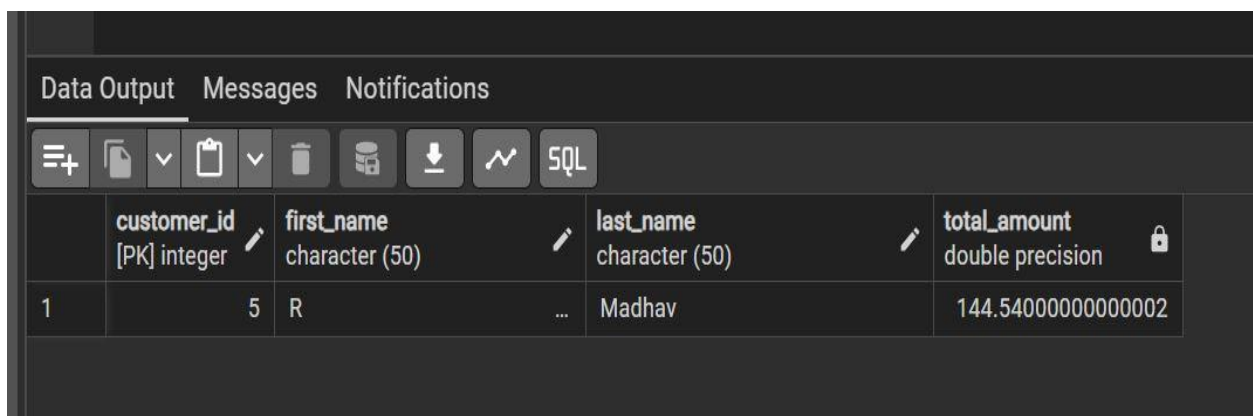
-- Q. Write query to return the email, first name, last name, & Genre of all Rock Music listeners. Return your list ordered alphabetically by email starting with A

```
SELECT DISTINCT email, first_name, last_name
FROM customer
JOIN invoice ON customer.customer_id = invoice.customer_id
JOIN invoice_line ON invoice.invoice_id = invoice_line.invoice_id
WHERE track_id IN(
    SELECT track_id FROM track
    JOIN genre ON track.genre_id = genre.genre_id
    WHERE genre.name LIKE 'Rock'
)
ORDER BY email ASC;
```

Data Output Messages Notifications			
	email character varying (50)	first_name character (50)	last_name character (50)
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
Total rows: 59 of 59 Query complete 00:00:00.330 Ln 11, Col 1			

-- Q. 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, customer.first_name, customer.last_name, SUM(invoice.total)
AS total_amount
FROM customer
JOIN invoice
ON customer.customer_id = invoice.customer_id
GROUP BY customer.customer_id
ORDER BY total_amount DESC
LIMIT 1;
```



The screenshot shows a database management interface with a table named 'customer'. The table has four columns: 'customer_id' (integer, primary key), 'first_name' (character 50), 'last_name' (character 50), and 'total_amount' (double precision). The table contains one row with the following values: '5' for customer_id, 'R' for first_name, 'Madhav' for last_name, and '144.54000000000002' for total_amount.

	customer_id [PK] integer	first_name character (50)	last_name character (50)	total_amount double precision
1	5	R	Madhav	144.54000000000002

-- Q. 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 name,milliseconds
FROM track
WHERE milliseconds > (
    SELECT AVG(milliseconds) AS avg_track_length
    FROM track
)
ORDER BY milliseconds DESC;
```

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	2956081
6	Battlestar Galactica, Pt. 1	2952702
7	Murder On the Rising Star	2935894
8	Battlestar Galactica, Pt. 3	2927802
Total rows: 494 of 494 Query complete 00:00:00.291 Ln 8, Col 1		

-- Q. 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;
```

Data Output Messages Notifications			
	artist_id [PK] character varying (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
7	51	Queen	45
8	142	The Rolling Stones	41
Total rows: 10 of 10 Query complete 00:00:00.220 Ln 10, Col 1			

- Q. 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 Customter_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,5 DESC)
SELECT * FROM Customter_with_country WHERE RowNo <= 1
```

Data Output Messages Notifications								
	customer_id integer	first_name character (50)	last_name character (50)	billing_country character varying (30)	total_spending double precision	rowno bigint		
1	56	Diego	Gutiérrez	Argentina	39.6	1		
2	55	Mark	Taylor	Australia	81.18	1		
3	7	Astrid	Gruber	Austria	69.3	1		
4	8	Daan	Peeters	Belgium	60.389999999999999	1		
5	1	Luís	Gonçalves	Brazil	108.899999999999998	1		
6	3	François	Tremblay	Canada	99.99	1		
7	57	Luis	Rojas	Chile	97.020000000000001	1		
8	5	R	Madhav	Czech Republic	144.540000000000002	1		
Total rows: 24 of 24 Query complete 00:00:00.211 Ln 9, Col 1								

- Q. 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 AS city_name, SUM(total) AS invoice_totals
FROM invoice
GROUP BY billing_city
ORDER BY invoice_totals DESC
LIMIT 1;
```

Data Output Messages Notifications		
	city_name character varying (30)	invoice_totals double precision
1	Prague	273.240000000000007