

QUESTIONS WITH QUERY AND OUTPUT

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

Query

Query History

1

2

3

4

SELECT

first_name,

last_name

FROM

employee

ORDER BY

levels

desc

LIMIT

1;

Data Output

Messages

Notifications

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2. Which countries have the most Invoices (TOP 5)?

Query

Query History

1

2

3

4

SELECT

billing_country,

COUNT(invoice_id)

FROM invoice

GROUP BY 1 ORDER BY 2 DESC LIMIT 5;

Data Output

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Notifications

	billing_country character varying (30)	count bigint
1	USA	131
2	Canada	76
3	Brazil	61
4	France	50
5	Germany	41

3. What are top 3 values of total invoice?

Query

Query History

1

SELECT total FROM invoice

2

ORDER BY 1 desc LIMIT 3;

Data Output

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total

double precision

1

23.759999999999998

2

19.8

3

19.8

4. 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.

Query		Query History						
<pre> 1 SELECT billing_city, SUM(total) AS invoice_totals 2 FROM invoice 3 GROUP BY 1 ORDER BY 2 DESC 4 LIMIT 1; </pre>								
Data Output		Messages Notifications						
<div> </div> <table> <thead> <tr> <th></th><th>billing_city character varying (30)</th><th>invoice_totals double precision</th></tr> </thead> <tbody> <tr> <td>1</td><td>Prague</td><td>273.24000000000007</td></tr> </tbody> </table>				billing_city character varying (30)	invoice_totals double precision	1	Prague	273.24000000000007
	billing_city character varying (30)	invoice_totals double precision						
1	Prague	273.24000000000007						

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

Query Query History

```
1 SELECT c.customer_id,c.first_name,c.last_name, SUM(i.total) as Total_Spent
2 FROM customer c JOIN
3 invoice i ON
4 c.customer_id = i.customer_id
5 GROUP BY 1
6 ORDER BY 4 DESC LIMIT 1;
```

Data Output Messages Notifications

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

6. 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

Query

Query History

```
1 SELECT DISTINCT c.email,c.first_name,c.last_name
2 FROM customer c JOIN
3 invoice i ON c.customer_id = i.customer_id
4 JOIN invoice_line il ON i.invoice_id = il.invoice_id
5 JOIN track t ON t.track_id = il.track_id
6 JOIN genre g ON g.genre_id = t.genre_id
7 WHERE g.name = 'Rock' ORDER by 1;
```

Data Output

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

Query

Query History

```
1 SELECT art.name, COUNT(art.artist_id) AS Total_tracks FROM artist art
2 JOIN album a on art.artist_id = a.artist_id
3 JOIN track t on a.album_id = t.album_id
4 JOIN genre g on t.genre_id = g.genre_id
5 WHERE g.name = 'Rock'
6 GROUP BY 1
7 ORDER BY 2 DESC
8 LIMIT 10;
```

Data Output

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8. 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.

Query

Query History

1

SELECT name,milliseconds as length_ms FROM track

2

WHERE milliseconds> (SELECT avg(milliseconds) FROM track)

3

ORDER BY 2 DESC;

Data Output

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9. Find TOP 10 amount spent by each customer on artists? Write a query to return customer name, artist name and total spent.

Query

Query History

```
1 SELECT c.first_name,c.last_name,a.name AS Artist_Name,SUM(il.unit_price* il.quantity) as Total_Spent
2 FROM artist a
3 JOIN album al ON a.artist_id = al.artist_id
4 JOIN track t ON al.album_id = t.album_id
5 JOIN invoice_line il ON t.track_id = il.track_id
6 JOIN invoice i ON i.invoice_id = il.invoice_id
7 JOIN customer c ON c.customer_id = i.customer_id
8 GROUP BY 1,2,3
9 ORDER BY 4 desc LIMIT 10;
```

Data Output

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10. 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.

Query Query History

```
1 SELECT country,genre_name FROM
2 (SELECT COUNT(il.quantity) AS purchases, c.country, g.name as genre_name, g.genre_id,
3 ROW_NUMBER() OVER(PARTITION BY c.country ORDER BY COUNT(il.quantity) DESC) AS RowNo
4 FROM invoice_line il
5 JOIN invoice i ON i.invoice_id = il.invoice_id
6 JOIN customer c ON c.customer_id = i.customer_id
7 JOIN track t ON t.track_id = il.track_id
8 JOIN genre g ON g.genre_id = t.genre_id
9 GROUP BY 2,3,4
10 ORDER BY 2 ASC, 1 DESC) as A
11 WHERE RowNo = '1'
```

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	country character varying (50)	genre_name character varying (120)
1	Argentina	Alternative & Punk
2	Australia	Rock
3	Austria	Rock
4	Belgium	Rock
5	Brazil	Rock
6	Canada	Rock

Total rows: 24 of 24

Query complete 00:00:00.053

Ln 9, Col 15

11. 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.

Query Query History

```

1 SELECT country,first_name,last_name,total_spending FROM
2 (
3     SELECT c.customer_id,first_name,last_name,billing_country as country,SUM(total) AS total_spending,
4     ROW_NUMBER() OVER(PARTITION BY billing_country ORDER BY SUM(total) DESC) AS RowNo
5     FROM invoice i
6     JOIN customer c ON c.customer_id = i.customer_id
7     GROUP BY 1,2,3,4
8     ORDER BY 4 ASC,5 DESC
9 )AS A
10 WHERE RowNo <=1;
11

```

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	country character varying (30)	first_name character	last_name character	total_spending double precision
1	Argentina	Diego	Gutiérrez	39.6
2	Australia	Mark	Taylor	81.18
3	Austria	Astrid	Gruber	69.3
4	Belgium	Daan	Peeters	60.38999999999999
5	Brazil	Luís	Gonçalves	108.89999999999998
6	Canada	François	Tremblay	99.99
7	Chile	Luis	Rojas	97.02000000000001
8	Czech Republic	R	Madhav	144.54000000000002
9	Denmark	Kara	Nielsen	37.61999999999999
10	Finland	Terhi	Hämäläinen	79.2
11	France	Wyatt	Girard	99.99
12	Germany	Evnn	Zimmermann	94.05000000000001

Total rows: 24 of 24 Query complete 00:00:00.057