

Music store database analysis in SQL

SQL PROJECT- MUSIC STORE DATA ANALYSIS Question

1. Who is the senior most employee based on job title?
2. Which countries have the most Invoices?
3. What are top 3 values of total invoice?
4. 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
5. 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
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
7. 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
- 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

1. Who is the senior most employee based on job title? Ans- Madan mohan

Query Query History

```
1 --1. Who is the senior most employee based on job title?
2
3 SELECT * FROM employee
4 order by levels DESC
5 limit 1
```

Scratch Pad

Data output Messages Graph Visualiser Notifications

	employee_id character varying (50)	last_name character (50)	first_name character (50)	title character varying (50)	reports_to character varying (30)	levels character
1		Madan	Mohan	Senior General Manag...	[null]	L7

2. Which countries have the most Invoices?- USA,CANADA ,BRAZIL

Query Query History

```
1 --2.Which countries have the most Invoices?
2
3 SELECT billing_country,count(*) FROM invoice
4 group by billing_country order by 2 desc
5
6
7
```

DESC

Data output Messages Graph Visualiser 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 --3.What are top 3 values of total invoice?
2
3 SELECT total FROM invoice
4 ORDER BY 1 DESC LIMIT 3
5
6
7
8

```

Data output Messages Graph Visualiser X Notifications

	total double precision
1	23.759999999999999
2	19.8
3	19.8

4. 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 Prague

Query Query History

```

1 /*4.Which city has the best customers? We would like to throw a
2 promotional Music Festival in the city we made the most money.
3 Write a query that returns one city that has the highest sum of
4 invoice totals. Return both the city name & sum of all invoice totals
5
6 SELECT SUM(total),billing_city FROM invoice
7 GROUP BY billing_city order by 1 desc
8
9
10

```

Data output Messages Graph Visualiser X Notifications

	sum double precision	billing_city character varying (30)
1	273.24000000000000	Prague
2	169.29	Mountain View
3	166.32	London
4	158.4	Berlin
5	151.47	Paris

5. 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 –

R Madhav

Query Query History

```
1 /* 5. Who is the best customer? The customer who has spent the most
2 money will be declared the best customer. Write a query that
3 returns the person who has spent the most money */
4 SELECT c.customer_id,c.first_name,c.last_name, sum(i.total)
5 from customer c
6 join invoice i
7 on c.customer_id = i.customer_id
8 group by c.customer_id
9 order by sum(i.total) desc
10 limit 1
```

Data output Messages Notifications

	customer_id [PK] integer	first_name character (50)	last_name character (50)	sum 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 /* . Write query to return the email, first name, last name, & Genre
2 of all Rock Music listeners. Return your list ordered alphabetically by
3 email starting with A */
4
5 select DISTINCT email,first_name, last_name from customer c
6 join invoice i on c.customer_id=i.customer_id
7 join invoice_line l on i.invoice_id=l.invoice_id
8 where track_id IN (select track_id from track t
9                     join genre g on t.genre_id=g.genre_id
10                    where g.name like 'Rock')
```

Data output Messages Notifications

	email character varying (50)	first_name character (50)	last_name character (50)
1	aaronmitchell@yahoo...	Aaron	Mitchell
2	alero@uol.com.br	Alexandre	Rocha
3	astrid.gruber@apple.at	Astrid	Gruber
4	bjorn.hansen@yahoo....	Bjørn	Hansen
5	camille.bernard@yah...	Camille	Bernard

7. 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

Query Query History

```

1  /* . Let's invite the artists who have written the most rock music in our data
2  query that returns the Artist name and total track count of the top 10 rock bands
3
4  SELECT artist.artist_id, artist.name, COUNT(artist.artist_id)
5  AS number_of_songs FROM track
6  JOIN album ON album.album_id = track.album_id
7  JOIN artist ON artist.artist_id = album.artist_id
8  JOIN genre ON genre.genre_id = track.genre_id
9  WHERE genre.name LIKE 'Rock'
10 GROUP BY artist.artist_id
11 ORDER BY number_of_songs DESC LIMIT 10;
12
13

```

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	60	Iron Maiden	81

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  /* . Return all the track names that have a song length longer
2  Order by the song length with the longest songs listed first *,
3
4  SELECT name, milliseconds FROM track
5  WHERE milliseconds > (
6  SELECT AVG(milliseconds) AS avg_track_length
7  FROM track)
8  ORDER BY milliseconds DESC;
9
10
11

```

Data output Messages Notifications

	name character varying (150)	milliseconds integer
1	Occupation / Precipice	5286953
2	Through a Looking Gla...	5088838
3	Greetings from Earth, ...	2960293