## Level 1 Questions.....................................................................................

Q1. Who is the senior-most employee based on job titles?

SELECT \*

FROM employee

ORDER BY levels DESC

LIMIT 1

**Ans:** Madan Mohan

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Q2. Which countries have the most invoices?

SELECT billing\_country as Country, ROUND(COUNT(total)) as Most\_Invoice ,

ROUND(SUM(total)) AS Total\_Contribution

FROM invoice

GROUP BY billing\_country

ORDER BY Most\_Invoice DESC

**Ans:** "USA" - 1040

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Q3. what are the top three values of the total invoice?

SELECT \*

FROM invoice

ORDER BY total DESC

LIMIT 3

**Ans:** 23.759999999999998

19.8

19.8

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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 AS City, ROUND(SUM(total)) AS total\_invoice\_sum

FROM invoice

GROUP BY City

ORDER BY total\_invoice\_sum DESC

**Ans:** "Prague" - 273

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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 c.first\_name, c.last\_name, ROUND(SUM(i.total)) as Money\_Spend

FROM customer as c

JOIN invoice as i

ON i.customer\_id = c.customer\_id

GROUP BY c.customer\_id

ORDER BY Money\_Spend DESC

LIMIT 1

**Ans:** "R Madav" - 145

## level 2 Questions.............................................................................................................

Q1: Write a 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 first\_name, last\_name, email

FROM customer as c

JOIN invoice AS i ON c.customer\_id = i.customer\_id

JOIN invoice\_line as li ON li.invoice\_id = i.invoice\_id

WHERE track\_id IN ( SELECT t.track\_id

FROM track AS t

JOIN genre AS g ON t.genre\_id = t.genre\_id

WHERE g.name = 'Rock'

)

ORDER BY email

Ans: 1. "Aaron” "Mitchell “ [aaronmitchell@yahoo.ca](mailto:aaronmitchell@yahoo.ca)

2……total 59 rows

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Q2: 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 ar.name Artist\_Name, COUNT(t.track\_id) Total\_Songs

FROM track t

JOIN album al ON al.album\_id = t.album\_id

JOIN artist ar ON ar.artist\_id = al.artist\_id

JOIN genre g ON g.genre\_Id = t.genre\_id

WHERE g.name = 'Rock'

GROUP BY ar.name

ORDER BY Total\_Songs DESC

LIMIT 10

Ans: 1. "Led Zeppelin" 114

2. …..Total 51 rows

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Q3: 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 long first.

SELECT name Track\_Name, milliseconds

FROM track

WHERE milliseconds > (SELECT ROUND(AVG(milliseconds))

FROM track

)

ORDER BY milliseconds DESC

Ans: 1. "Occupation / Precipice" 5286953

2. ……..Total 494 Rows