**Question Set 1 -**

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

Q3: What are top 3 values of total invoice?

SELECT total

FROM invoice

ORDER BY total DESC

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;

Question 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.

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;

Question 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

Method 1

SELECT DISTINCT email,first\_name, last\_name

FROM customer

JOIN invoice ON customer.customer\_id = invoice.customer\_id

JOIN invoiceline ON invoice.invoice\_id = invoiceline.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;

Method 2

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 invoiceline ON invoiceline.invoice\_id = invoice.invoice\_id

JOIN track ON track.track\_id = invoiceline.track\_id

JOIN genre ON genre.genre\_id = track.genre\_id

WHERE genre.name LIKE 'Rock'

ORDER BY email;

Question 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

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;

Question 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.

SELECT name,miliseconds

FROM track

WHERE miliseconds > (

SELECT AVG(miliseconds) AS avg\_track\_length

FROM track )

ORDER BY miliseconds DESC;