

SQL Queries

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

```
SELECT title, last_name, first_name  
FROM employee  
ORDER BY levels DESC  
LIMIT 1
```

2. Which countries have the most Invoices?

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

3. What are top 3 values of total invoice?

```
SELECT total  
FROM invoice  
ORDER BY total DESC
```

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

```
SELECT billing_city,SUM(total) AS InvoiceTotal  
FROM invoice
```

```
GROUP BY billing_city  
ORDER BY InvoiceTotal DESC  
LIMIT 1;
```

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;
```

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;
```

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;

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,milliseconds

FROM track

WHERE milliseconds > (

SELECT AVG(milliseconds) AS avg_track_length

FROM track)

ORDER BY milliseconds DESC;