

SQL Questions and Answers

/* Q1: Who is the senior most employee based on job title? */

```
Select *  
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  
limit 3
```

/* 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
```

/* 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 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
```

/* Q6: 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. */

```
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 invoice_line ON invoice_line.invoice_id = invoice.invoice_id
JOIN track ON track.track_id = invoice_line.track_id
JOIN genre ON genre.genre_id = track.genre_id
WHERE genre.name LIKE 'Rock'
ORDER BY email
```

/* Q7: 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 5
```

