

-- Who is the senior most employee based on job title?

```
SELECT title, concat(last_name, ' ', first_name) as Fullname, levels
FROM employee
ORDER BY levels desc
LIMIT 1;
```

-- Which countries have the most Invoices?

```
SELECT * FROM invoice;

SELECT count(*)as TotalInvoices, billing_country as Country
from invoice
group by billing_country
ORDER BY TotalInvoices DESC;
```

-- What are top 3 values of total invoice?

```
SELECT billing_country AS Country, round(sum(total)) AS Total
FROM invoice
GROUP BY billing_country
ORDER BY Total DESC LIMIT 3;
```

/*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 TotalSum
FROM invoice
```

```
GROUP BY City  
ORDER BY TotalSum DESC LIMIT 1;
```

```
SELECT billing_city AS City, total  
FROM invoice  
group by city  
ORDER BY total;
```

/*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.customer_id,concat(c.first_name,' ', c.last_name) AS FullName ,round(SUM(i.total)) AS  
total_spending  
FROM customer AS c  
JOIN invoice AS i ON c.customer_id = i.customer_id  
GROUP BY c.customer_id  
ORDER BY total_spending DESC  
LIMIT 1;
```

/*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 c.email AS Email,c.first_name AS FirstName, c.last_name AS LastName, g.name AS  
Name  
FROM customer AS c  
JOIN invoice ON invoice.customer_id = c.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 AS g ON g.genre_id = track.genre_id  
WHERE g.name LIKE 'Rock'  
ORDER BY email;
```

/*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;
```

/*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;
```