# Music Store Analysis -SQL Queries

### Senior most employee based on job title:

```
SELECT * FROM employee ORDER BY levels DESC LIMIT 1;
```

#### Countries that have the most invoices:

```
SELECT billing_country, COUNT(*) AS no_of_invoices FROM invoice
GROUP BY billing_country
ORDER BY no of invoices DESC;
```

# Top 3 values of total invoices:

```
SELECT total FROM invoice
ORDER BY total DESC
LIMIT 3
```

# City that has the best customers and the highest sum of invoice totals:

```
SELECT billing_city, SUM(total) AS invoiceTOTAL FROM invoice
GROUP BY billing_city
ORDER BY invoiceTOTAL DESC;
```

# Customer who spent the most money:

```
SELECT c.customer_id, c.first_name, c.last_name, SUM(i.total) AS total
FROM customer c
JOIN invoice i ON i.customer_id = c.customer_id
GROUP BY c.customer_id
ORDER BY total DESC
LIMIT 1;
```

# Return the email, first & last name and genre of all rock music listeners (alphabetically):

#### Return the artist name and total track count of the top 10 rock bands:

```
SELECT ar.artist_id, ar.name, COUNT(ar.artist_id) AS no_of_songs FROM track t

JOIN album a ON a.album_id = t.album_id

JOIN artist ar ON ar.artist_id = a.artist_id

JOIN genre g ON g.genre_id = t.genre_id

WHERE g.name LIKE 'Rock'

GROUP BY ar.artist_id

ORDER BY no_of_songs DESC

LIMIT 10;
```

```
Return all track names that are longer than avg length. Return name & milliseconds for each
```

```
track:
SELECT name, milliseconds
FROM track
WHERE milliseconds > (
      SELECT AVG (milliseconds) AS avg track length
      FROM track)
ORDER BY milliseconds DESC;
Amount spent by each customer on top artists, return customer & artist name, and total spent:
WITH best selling artist AS (
      SELECT ar.artist_id AS artist_id, ar.name AS artist_name,
      SUM(il.unit price * il.quantity) AS total sales
      FROM invoice line il
      JOIN track t ON t.track id = il.track id
      JOIN album a ON a.album id = t.album id
      JOIN artist ar ON ar.artist id = a.artist id
      GROUP BY 1
      ORDER BY 3 DESC
      LIMIT 1
SELECT c.customer id, c.first name, c.last name, bsa.artist name,
      SUM(il.unit price * il.quantity) AS amount spent
FROM invoice i
JOIN customer c ON c.customer id = i.customer id
JOIN invoice line il ON il.invoice id = i.invoice id
JOIN track t ON t.track id = il.track id
JOIN album a ON a.album id = t.album id
```

#### Most popular music genre for each country i.e genre with the highest amount of purchase:

```
WITH popular genre AS
      SELECT COUNT(il.quantity) AS purchases, c.country, g.name, g.genre id,
      ROW NUMBER() OVER(PARTITION BY c.country ORDER BY COUNT(il.quantity) DESC)
AS RowNO
      FROM invoice line il
      JOIN invoice i ON il.invoice id = i.invoice id
      JOIN customer c ON c.customer id = i.customer id
      JOIN track t ON t.track id = il.track id
      JOIN genre g ON g.genre id = t.genre id
      GROUP BY 2,3,4
      ORDER BY 2 ASC, 1 DESC
SELECT * FROM popular genre WHERE RowNo <= 1
```

#### Return the country along with top customer and how much they spent:

JOIN best selling artist bsa ON bsa.artist id = a.artist id

GROUP BY 1,2,3,4 ORDER BY 5 DESC;

```
WITH RECURSIVE
      customer with country AS (
             SELECT c.customer id, first name, last name, billing country,
             SUM(total) AS total spending
             FROM invoice i
             JOIN customer c ON c.customer id = i.customer id
             GROUP BY 1,2,3,4
             ORDER BY 2,3 DESC),
```

SELECT cc.billing\_country, cc.total\_spending, cc.first\_name, cc.last\_name, cc.customer\_id

FROM customer\_with\_country cc

JOIN country\_max\_spending ms

ON cc.billing\_country = ms.billing\_country

WHERE cc.total\_spending = ms.max\_spending

ORDER BY 1;