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

select \* from employee

Order by levels desc

limit 1

**Which countries have the most Invoices?**

Select Count(\*) as c, billing\_country

from Invoice

group by billing\_country

order by c desc

**What are top 3 values of total invoice?**

select total from invoice

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 Sum(total) as invoice\_total, billing\_city

from Invoice

group by billing\_city

order by invoice\_total desc

**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, customer.first\_name, customer.last\_name, SUM(invoice.total) as total

from customer

Join invoice on customer.customer\_id = invoice.customer\_id

group by customer.customer\_id

order by total 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 email, first\_name, last\_name

from customer

Join invoice on customer.customer\_id = invoice.customer\_id

Join invoice\_line on invoice.invoice\_id = invoice\_line.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;

**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;

**Find how much amount spent by each customer on artists?**

**--Write a query to return customer name, artist name and total spent**

WITH best\_selling\_artist AS (

SELECT artist.artist\_id AS artist\_id, artist.name AS artist\_name,

SUM(invoice\_line.unit\_price\*invoice\_line.quantity) As total\_sales

From invoice\_line

Join track on track.track\_id = invoice\_line.track\_id

Join album on album.album\_id = track.album\_id

Join artist on artist.artist\_id = album.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 alb on alb.album\_id = t.album\_id

JOIN best\_selling\_artist bsa on bsa.artist\_id = alb.artist\_id

GROUP BY 1,2,3,4

ORDER BY 5 DESC;

**We want to find out the most popular music Genre for each country. We determine the most popular genre as the genre With the highest amount of purchases. Write a query that returns each country along with the top Genre. For countries where the maximum number of purchases is shared return all Genres.**

WITH popular\_genre AS

(

SELECT COUNT(invoice\_line.quantity) AS purchases, customer.country, genre.name, genre.genre\_id,

ROW\_NUMBER() OVER(PARTITION BY customer.country ORDER BY COUNT(invoice\_line.quantity) DESC) AS Rowno

FROM invoice\_line

JOIN invoice on invoice.invoice\_id = invoice\_line.invoice\_id

JOIN customer on customer.customer\_id = invoice.customer\_id

JOIN track on track.track\_id = invoice\_line.track\_id

JOIN genre on genre.genre\_id = track.genre\_id

GROUP BY 2,3,4

ORDER BY 2 ASC, 1 DESC

)

SELECT \* FROM popular\_genre WHERE RowNo <= 1

**Write a query that determines the customer that has spent the most on music for each country.**

**Write a query that returns the country along with the top customer and how much they spent.**

**For countries where the top amount spent is shared, provide all customers who spent this amount.**

WITH Customer\_with\_country AS (

SELECT customer.customer\_id, first\_name, last\_name, billing\_country, SUM(total) AS total\_spending,

ROW\_NUMBER() OVER(PARTITION BY billing\_country ORDER BY SUM(total) DESC) AS RowNo

FROM invoice

JOIN customer on customer.customer\_id = invoice.customer\_id

GROUP BY 1,2,3,4

ORDER BY 4 ASC, 5 DESC)

SELECT \* FROM Customer\_with\_country WHERE RowNo <= 1