**Digital Music Store Analysis**

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

Select \* From employee

Order by levels desc

limit 1;

2) Which countries have the most Invoices?

select billing\_country,

count(invoice\_id) as Count

From invoice

Group by 1

order by Count desc;

3) What are top 3 values of total invoice?

select invoice\_id,

Total

From invoice

order by Total desc

limit 3;

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 Invoice\_totals

From invoice

Group by 1

order by 2 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 T2.customer\_id,

T2.first\_name,

T2.last\_name,

sum(T1.Total) as Total\_Spent

From invoice as T1 Inner Join Customer as T2 Using(Customer\_id)

group by 1,2,3

order by 4 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

Select distinct(T1.email),

T1.First\_name,

T1.Last\_name

From customer as T1 Inner Join invoice as T2 Using(customer\_id)

Inner Join invoice\_line as T3 Using(invoice\_id)

Inner Join track as T4 Using(track\_id)

Inner Join genre as T5 Using(genre\_id)

Where T5.name="Rock"

order by T1.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 T1.artist\_ID,

T1.name,

Count(\*) as "Total Track"

From Artist as T1 Inner join album as T2 Using(artist\_Id)

Inner join track as T3 Using(album\_id)

Inner join genre as T4 Using(genre\_id)

Where T4.name like "Rock"

Group by 1,2

order by 3 desc limit 10;

8) Return all the track\_id that have a song length longer than the average song length. Return the track\_id and Milliseconds for each track. Order by the song length with the longest songs listed first

Select track\_id,

milliseconds

From track

where milliseconds > (Select avg(milliseconds) from track)

order by 2 desc;

9) Find how much amount spent by each customer on artists? Write a query to return Customer name, artist name and total spent

With Project as

(

Select T1.artist\_id,T1.name,sum(T4.quantity\*T4.unit\_price) as Total\_Spent

From artist as T1 Inner Join album as T2 Using(artist\_id)

Inner Join track as T3 Using(album\_id)

Inner Join invoice\_line as T4 Using(track\_id)

Group by 1,2

order by 3 desc

limit 1

)

Select T1.customer\_id,T1.first\_name,T1.Last\_name,T6.name,sum(T3.quantity\*T3.unit\_price) as Total\_Spent

From Customer as T1 Inner Join Invoice as T2 Using(customer\_id)

Inner Join invoice\_line as T3 Using(Invoice\_Id)

Inner Join track as T4 Using(track\_id)

Inner Join album as T5 Using(Album\_Id)

Inner Join Project as T6 Using(artist\_id)

Group by 1,2,3,4

Order by 5 desc;

10) 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.

Select Country,name,Total

From (Select Country,name,

Total,dense\_rank() Over(partition by Country order by Total desc) as Rankk

From (Select T1.billing\_country as

Country,T4.genre\_id,T4.name,Count(T1.invoice\_id) as Total

From invoice as T1 Inner Join invoice\_line as T2 Using(invoice\_id)

Inner Join track as T3 Using(track\_id)

Inner Join genre as T4 Using(genre\_id)

Group by 1,2

Order by 4 desc) as Project) as Final

Where Rankk=1;

11) 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 CTE as

(

Select T1.first\_name,

T1.last\_name,

T1.country,

Sum(T2.Total) as Total

From customer as T1 Inner Join Invoice as T2 Using(Customer\_ID)

Group by 1,2,3

)

Select country, first\_name, last\_name,Total

From(

Select first\_name,last\_name, country,Total, Dense\_rank() over(partition by country order by Total desc) as Rankk

From CTE

) as Projectt

Where Rankk=1;