**MUSIC DATABASE PROJECT IN SQL**

**SQL PROJECT QUERIES**

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

select \* from employee

Order by levels desc

limit 1;

**2. Which countries has the most invoices?**

select count(\*) as c, billing\_country

from invoice

group by billing\_country

order by c desc;

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

select total from invoice

order by total desc

limit 3;

**4. Which city has the best customers?**

select sum(total) as invoice\_total, billing\_city

from invoice

group by billing\_city

order by invoice\_total desc

**5. Who is the best customer?**

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

**6. Write a query to return the email, firstname, lastname and genre of all of rock music listeners.**

**Return your list orderes 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

**7. Write a query that returns the artist name and total track count of the top 10 rock brands?**

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

**8. 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

**9. 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

**10. 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 customer who speant this amount.**

with recursive

customer\_with\_country as (

select customer.customer\_id, first\_name, last\_name, billing\_country, sum(total)as Total\_Spending

from invoice

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

group by 1,2,3,4

order by 2,3 desc),

country\_max\_spending as(

select billing\_country, max(Total\_Spending) as max\_spending

from customer\_with\_country

group by billing\_country)

select cc.billing\_country, cc.Total\_Spending, cc.first\_name, cc.last\_name

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;

