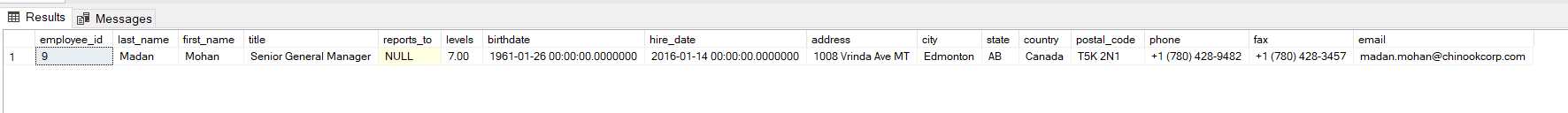
SQL PROJECT- MUSIC STORE DATA ANALYSIS

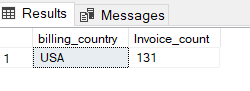
1. Who is the senior most employee based on job title?

SELECT TOP 1 \* FROM employee ORDER BY levels DESC



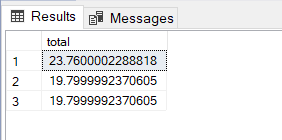
1. Which countries have the most Invoices?

select TOP 1 billing\_country, count(\*) as Invoice\_count from invoice group by billing\_country order by Invoice\_count desc;



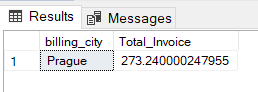
1. What are top 3 values of total invoice?

select TOP 3 total from invoice order by total desc;



1. 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

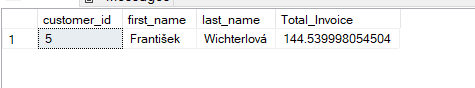
select Top 1 billing\_city, sum(total) as Total\_Invoice from invoice group by billing\_city order by Total\_Invoice desc;



1. 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 Top 1 customer.customer\_id, customer.first\_name, customer.last\_name, sum(invoice.total) as Total\_Invoice from customer join invoice on customer.customer\_id = invoice.customer\_id

group by customer.customer\_id, customer.first\_name, customer.last\_name order by Total\_Invoice desc;



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,genre.name from customer join invoice on customer.customer\_id = invoice.customer\_id

join invoice\_line on invoice.invoice\_id = invoice\_line.invoice\_id

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

join genre on track.genre\_id = genre.genre\_id where email LIKE 'a%' and genre.name like 'Rock' order by email ;

--OR

select distinct email,first\_name,last\_name from customer

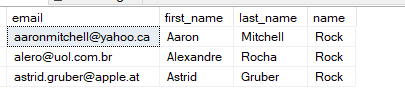
join invoice on customer.customer\_id = invoice.customer\_id

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 ;

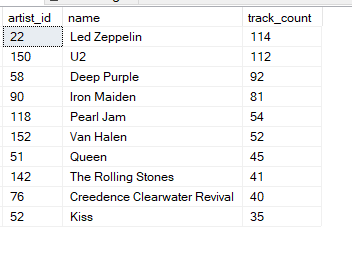


1. Let's invite the artists who have written the most rock music in our dataset. Write a query that returns the Artist name and total track count of the top 10 rock bands

select TOP 10 artist.artist\_id ,artist.name,count(track.track\_id)as track\_count from artist join album on artist.artist\_id = album.artist\_id

join track on album.album\_id=track.album\_id

join genre on track.genre\_id= genre.genre\_id where genre.name like 'Rock' group by artist.artist\_id ,artist.name order by track\_count desc;



1. 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;



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

with best\_artist AS(

select TOP 1 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 artist.artist\_id, artist.name

order by total\_sales desc

)

select c.customer\_id,c.first\_name,c.last\_name,ba.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

join best\_artist ba on ba.artist\_id = a.artist\_id

group by c.customer\_id,c.first\_name,c.last\_name,ba.artist\_name

order by 5 desc;



1. 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 total\_purchase,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

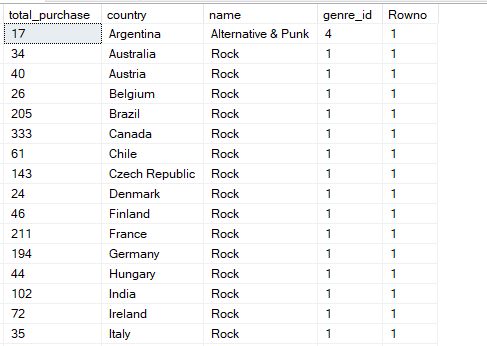
join track on track.track\_id = invoice\_line.track\_id

join genre on genre.genre\_id = track.genre\_id

group by customer.country, genre.name,genre.genre\_id

)

select \* from popular\_genre where Rowno <=1



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, billing\_country asc) as Rowno

from invoice

join customer on customer.customer\_id = invoice.invoice\_id

group by customer.customer\_id,first\_name,last\_name,billing\_country

)

select \* from customer\_with\_country where Rowno <= 1 order by billing\_country asc, total\_spending desc



