-- creating the database --

create database music\_store\_data

use music\_store\_data

--checking out some tables and their info

select \* from album

select \* from album2

select \* from media\_type

select \* from invoice\_line

select \* from invoice

select \* from playlist\_track

select \* from playlist

select \* from genre

select \* from customer

-- senior most employee based on the job title

select \* from employee

select distinct(levels) from employee

select \* from employee where levels='L7'

--madan mohan is the senior most employee who is the senior gm who doesn"t reports to anyone

--which countries have the most invoices?

select \* from invoice

select sum(total) as total\_invoices ,billing\_country

from invoice

group by 2

order by 1 desc

--usa has the most number of invoices with a total of 1051 followed by canada,brazil,france,germany,cech republic etc.

--what are the top 3 total values of invoices? answer - 1051,541,432

--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 which returns one city that has the highest sum of invoice totals.return both the city name and the sum of the all invoice totals.

select \* from customer

select \* from invoice

select sum(total) as total\_of\_best\_billing\_city ,billing\_city

from invoice

group by billing\_city

order by 1 desc

select count(total) as total\_of\_best\_billing\_city ,billing\_city

from invoice

group by billing\_city

order by 1 desc

select count(billing\_city) as total\_of\_best\_billing\_city ,billing\_city

from invoice

group by billing\_city

order by 1 desc

--prague is the city with the most number of invoices

--who is the best customer?the customer who has spend 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\_of\_a\_customer

from customer

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

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

order by 4 desc

limit 1

-- write query to return the MUSIC\_STORE\_DATA email,first name,last name, and genre of all rock music listeners.

-- return your list ordered alphabetically by email starting with A

select \* from customer

select \* from invoice

select \* from invoice\_line

select \* from genre

select c.customer\_id, c.email,c.first\_name,c.last\_name from customer as c

left join invoice as i on c.customer\_id = i.customer\_id

left join invoice\_line as il on i.invoice\_id = il.invoice\_id

left join track as t on il.track\_id=t.track\_id

left join genre as g where g.name = 'Rock'

group by c.customer\_id,c.email,c.first\_name,c.last\_name

order by c.email

-- lets 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

-- artist artist\_id,genre genre\_id,track genre\_id,track track\_id,track album\_id,album album\_id,album artist\_id

select ar.name,count(distinct(t.name)) as total\_tracks\_composed from artist as ar

left join album as al on ar.artist\_id=al.artist\_id

left join track as t on al.album\_id=t.album\_id

left join genre as g on t.genre\_id=g.genre\_id

where g.name = 'Rock'

group by ar.name

order by 2 desc

limit 10

--return all the track names that have a song length longer than the average song length. retun 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) from track

)

order by milliseconds desc

--find out how much amount spent by each customer on artists? write a query to return customer name,artist name and total spent

--customer& invoice customer\_id,invoice and invoice\_line invoice\_id,album artist artist\_id,track and album album\_id

select concat(c.first\_name,' ',c.last\_name) as full\_name , ar.name

where ar.name = 'Queen' and c.first\_name='Wyatt'

select c.customer\_id , concat(c.first\_name,' ',c.last\_name) as full\_name , ar.name , sum(il.unit\_price\*il.quantity) as total\_spent

from customer as c

inner join invoice as i on c.customer\_id=i.customer\_id

inner join invoice\_line as il on i.invoice\_id = il.invoice\_id

inner join track as t on il.track\_id = t.track\_id

inner join album as al on t.album\_id = al.album\_id

inner join artist as ar on al.artist\_id = ar.artist\_id

group by 1,2,3

order by 4 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 max number of purcases is shared retur all genres

--invoice invoice\_line invoice\_id,billing\_country from invoice,invoice\_line track track\_id, track genre genre\_id, invoice\_line unit\_price quantity , track unit\_price

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 row\_no

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 , 2 desc

)

select \* from popular\_genre where row\_no <=1