--q1.senior most employee based on job title---

select employee\_id , last\_name, first\_name ,title,levels

from employee

order by levels desc

limit 1;

--q2.which countries have most invoices

select billing\_country,count(\*) as total\_invoices

from invoice

group by billing\_country

order by count(\*) desc;

--q3.what are top 3 values of invoices

select total

from invoice

order by total desc

limit 3;

--q4. city that have highest total invoice

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

from invoice

group by billing\_city

order by total\_invoices desc

limit 1;

--q5 write a query that return the customer who have spent the most money

select c.customer\_id ,c.first\_name,c.last\_name,sum(i.total) as money\_spent

from customer as c

join invoice as i

on i.customer\_id = c.customer\_id

group by 1,2,3

order by money\_spent desc

limit 1;

--q6. query to return first\_name,last\_name,email,genre of all music listner order alphabetically based on email

select c.first\_name,c.last\_name,c.Email

from genre as g

join track as t

on t.genre\_id = g.genre\_id

join invoice\_line as l

on l.track\_id = t.track\_id

join invoice as i

on i.invoice\_id = l.invoice\_id

join customer as c

on c.customer\_id = i.customer\_id

where g.name = 'Rock'

order by email asc;

--q7.write a query that returns the artist name and total track count of the top 10 rock band.

select a.artist\_id, a.name , count(a.artist\_id) as number\_of\_songs

from artist as a

join album as b

on b.artist\_id=a.artist\_id

join track as t

on t.album\_id = b.album\_id

join genre as g

on g.genre\_id = t.genre\_id

where g.name = 'Rock'

group by 1

order by 3 desc

limit 10;

--q8.return track\_name that have song length longer than average song length

select name,milliseconds

from track

where milliseconds>(select avg(milliseconds) as length\_songs

from track)

order by milliseconds desc;

--q9:Find how much amount spent by each customer on artists? Write a query to return customer name, artist name and total spent \*

with cte as (select a.artist\_id,a.name,sum(l.unit\_price\*l.quantity) as total\_spent

from customer as c

join invoice as i

on i.customer\_id = c.customer\_id

join invoice\_line as l

on l.invoice\_id = i.invoice\_id

join track as t

on t.track\_id = l.track\_id

join album as b

on b.album\_id = t.album\_id

join artist as a

on a.artist\_id = b.artist\_id

group by 1

order by 3 desc

limit 1)

select c.first\_name,c.last\_name,e.name,e.total\_spent

from customer as c

join invoice as i

on i.customer\_id = c.customer\_id

join invoice\_line as l

on l.invoice\_id = i.invoice\_id

join track as t

on t.track\_id = l.track\_id

join album as b

on b.album\_id = t.album\_id

join cte as e

on e.artist\_id = b.artist\_id

group by 1,2,3,4

order by 4 desc;

-- Q10: 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 cte as (select g.genre\_id,g.name,c.country as country,

count(l.quantity) as amount\_of\_purchase,

row\_number()over(partition by c.country order by count(l.quantity)desc)as rank\_no

from genre as g

join track as t

on t.genre\_id =g.genre\_id

join invoice\_line as l

on l.track\_id = t.track\_id

join invoice as i

on i.invoice\_id = l.invoice\_id

join customer as c

on c.customer\_id = i.customer\_id

group by 1,2,3

order by 3asc ,4 desc)

select \* from cte

where rank\_no = 1;

--Q11: 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 c.customer\_id,c.first\_name,c.last\_name,i.billing\_country,

sum(i.total) as total\_amount,

row\_number() over(partition by i.billing\_country order by sum(i.total) desc) as rank\_no

from customer as c

join invoice as i

on i.customer\_id = c.customer\_id

group by 1,2,3,4)

select\*from cte

where rank\_no = 1;