-- Project Phase II

-- 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 \* FROM customer;

SELECT \* FROM genre;

SELECT \* FROM invoice;

SELECT \* FROM invoice\_line;

SELECT \* FROM track;

SELECT

a.customer\_id,

a.first\_name,

a.last\_name,

a.email,

i.invoice\_date,

t.name ,

g.name

FROM customer a

JOIN invoice i ON i.customer\_id = a.customer\_id

JOIN invoice\_line l ON i.invoice\_id = l.invoice\_id

JOIN track t ON t.track\_id = l.track\_id

JOIN genre g ON g.genre\_id = t.genre\_id

WHERE g.name LIKE "Rock"

ORDER BY a.email

LIMIT 100;

-- 2. 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 \* FROM artist;

SELECT \* FROM track;

SELECT \* FROM genre;

SELECT \* FROM album;

SELECT ar.name as Artist,count(t.name) as Track\_count ,max(g.name) AS genre\_count FROM artist ar

JOIN album ab ON ab.artist\_id=ar.artist\_id

JOIN track t ON t.album\_id=ab.album\_id

JOIN genre g ON g.genre\_id=t.genre\_id

WHERE g.name LIKE "Rock"

GROUP BY ar.name

ORDER BY count(t.name) desc

LIMIT 10;

-- 3. 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 \* FROM artist;

SELECT \* FROM track;

SELECT \* FROM genre;

SELECT \* FROM album;

select name,milliseconds from track

where milliseconds>(select AVG(milliseconds) from track)

order by milliseconds desc,name asc

LIMIT 100;