MUSIC STORE SQL QUERIES

SELECT \* FROM employee

ORDER BY levels DESC

LIMIT 1;

SELECT COUNT(invoice\_id) as c, billing\_country from invoice

Group by billing\_country

ORDER BY c DESC

Limit 3;

SELECT total FROM invoice

ORDER BY total DESC

LIMIT 3;

SELECT SUM(total) as t, billing\_city as b FROM invoice

GROUP BY b

ORDER BY t DESC

LIMIT 5;

SELECT c.customer\_id,

c.first\_name,

c.last\_name,

SUM(i.total) AS total\_amount

FROM customer AS c

LEFT JOIN invoice AS i

ON c.customer\_id = i.customer\_id

GROUP BY c.customer\_id,c.first\_name, c.last\_name

ORDER BY total\_amount DESC

LIMIT 5;

SELECT c.email,

c.first\_name,

c.last\_name

FROM customer AS c

JOIN invoice ON c.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 ASC;

SELECT a.artist\_id,a.name,COUNT(al.artist\_id) as number\_of\_songs from artist as a

JOIN album as al ON a.artist\_id = al.artist\_id

JOIN track as t ON al.album\_id = t.album\_id

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

WHERE g.name LIKE 'Rock'

GROUP BY a.artist\_id

ORDER BY number\_of\_songs DESC

LIMIT 10;

SELECT name as track\_name, milliseconds as Song\_length FROM track

WHERE milliseconds >(Select avg(milliseconds) AS Avg\_track\_length FROM track)

ORDER BY milliseconds DESC;

WITH best\_selling\_artist AS (

SELECT a.artist\_id,a.name AS artist\_name, SUM(il.quantity \* il.unit\_price) AS Total\_spent FROM invoice\_line as il

JOIN track as t ON t.track\_id = il.track\_id

JOIN album as al ON al.album\_id = t.album\_id

JOIN artist as a ON a.artist\_id = al.artist\_id

GROUP BY a.artist\_id

ORDER BY Total\_spent DESC

LIMIT 1

)

SELECT c.customer\_id,c.first\_name,c.last\_name,bsa.artist\_name, SUM(il.quantity \* il.unit\_price) AS Amount\_spent FROM invoice as i

JOIN customer as c ON c.customer\_id = i.customer\_id

JOIN invoice\_line as il ON il.invoice\_id = i.invoice\_id

JOIN track as t ON t.track\_id = il.track\_id

JOIN album as al ON al.album\_id = t.album\_id

JOIN best\_selling\_artist AS bsa ON bsa.artist\_id = al.artist\_id

GROUP BY c.customer\_id,c.first\_name,c.last\_name,bsa.artist\_name

ORDER BY Amount\_spent DESC

LIMIT 5;

WITH popular\_genre AS(

SELECT COUNT(il.quantity) AS purchases,c.country,g.name,g.genre\_id,

ROW\_NUMBER () OVER(PARTITION BY c.country ORDER BY COUNT(il.quantity) DESC ) AS Row\_no FROM invoice\_line as il

JOIN invoice as i ON i.invoice\_id = il.invoice\_id

JOIN customer as c ON c.customer\_id = i.customer\_id

JOIN track as t ON t.track\_id = il.track\_id

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

GROUP BY c.country,g.name,g.genre\_id

ORDER BY c.country ASC , purchases DESC

)

SELECT \* FROM popular\_genre WHERE row\_no = 1;

WITH RECURSIVE

customer\_with\_country AS(

SELECT c.customer\_id, c.first\_name, c.last\_name, i.billing\_country, SUM(total) AS total\_spending

FROM invoice as i

JOIN customer as c ON c.customer\_id = i.customer\_id

GROUP BY c.customer\_id, c.first\_name, c.last\_name, i.billing\_country

ORDER BY c.customer\_id , total\_spending 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,cc.customer\_id

FROM customer\_with\_country as cc

JOIN country\_max\_spending as ms

ON cc.billing\_country = ms.billing\_country

WHERE cc.total\_spending = ms.max\_spending

WITH customer\_with\_country AS(

SELECT c.customer\_id, c.first\_name, c.last\_name, i.billing\_country, SUM(total) AS total\_spending,

ROW\_NUMBER() OVER (PARTITION BY i.billing\_country ORDER BY SUM(total) DESC) AS Row\_no

FROM invoice as i

JOIN customer as c ON c.customer\_id = i.customer\_id

GROUP BY c.customer\_id, c.first\_name, c.last\_name, i.billing\_country

)

SELECT \* FROM customer\_with\_country WHERE Row\_no =1;