Project : MySQL Music Store Database

SECTION : EASY

QUERY 1 :

```
use music_store_database;
-- Who is the senior most employee based on job title;

SELECT employee_id, concat(first_name, last_name) as Employee_Name, title , levels,hire_date
FROM employee
ORDER BY levels DESC
LIMIT 1;
```

employee_id	Employee_Name	title	levels	hire_date
1	AndrewAdams	General Manager	L6	14-08-2016 00:00

QUERY 2 :

```
-- Q2. Which countries have the most Invoices ?
SELECT billing_country, COUNT(*) as Most_Invoices
FROM invoice
GROUP BY billing_country
ORDER BY Most_Invoices DESC;
```

billing_country	Most_Invoices
USA	131
Canada	76
Brazil	61
France	50
Germany	41
Czech Republic	30
Portugal	29
United Kingdom	28
India	21
Ireland	13
Chile	13
Finland	11
Spain	11
Poland	10
Denmark	10
Australia	10
Hungary	10
Sweden	10
Netherlands	10
Norway	9
Italy	9
Austria	9
Belgium	7
Argentina	5

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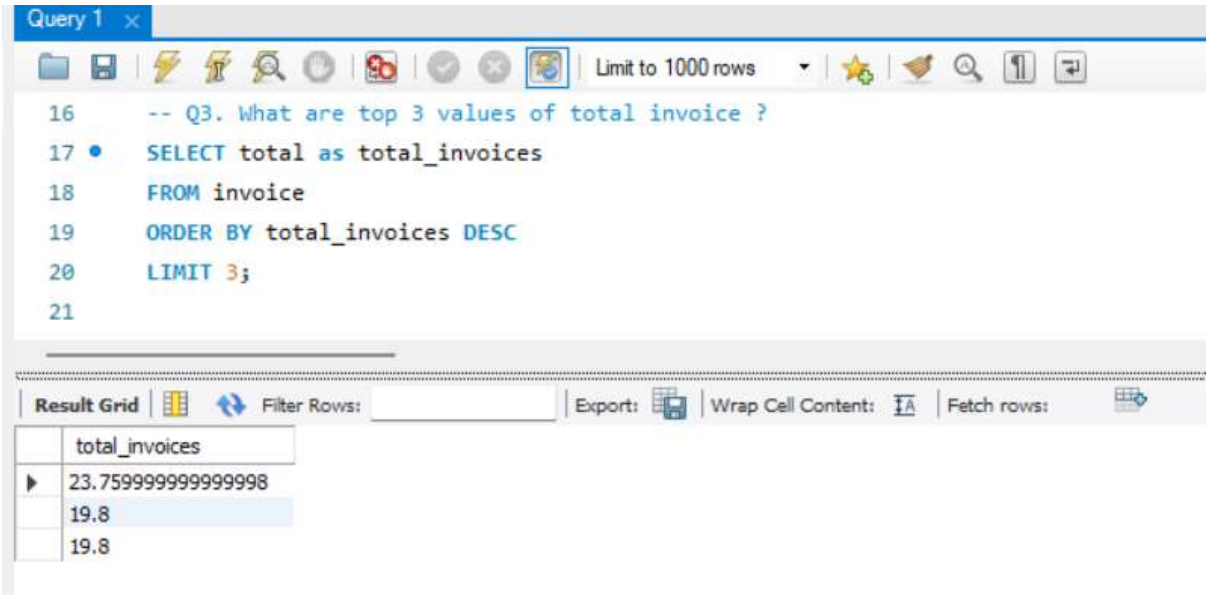
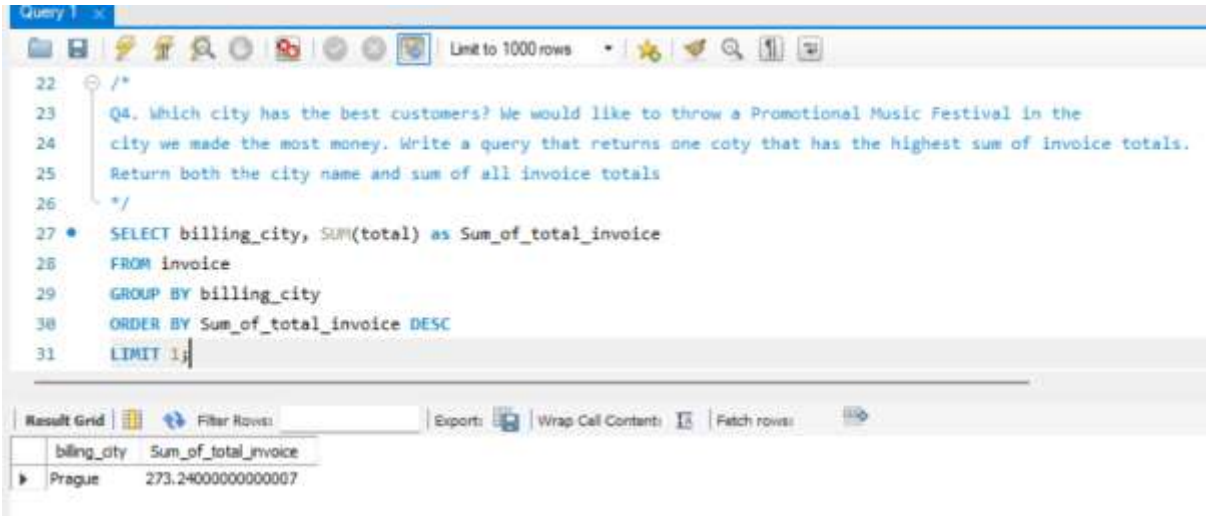
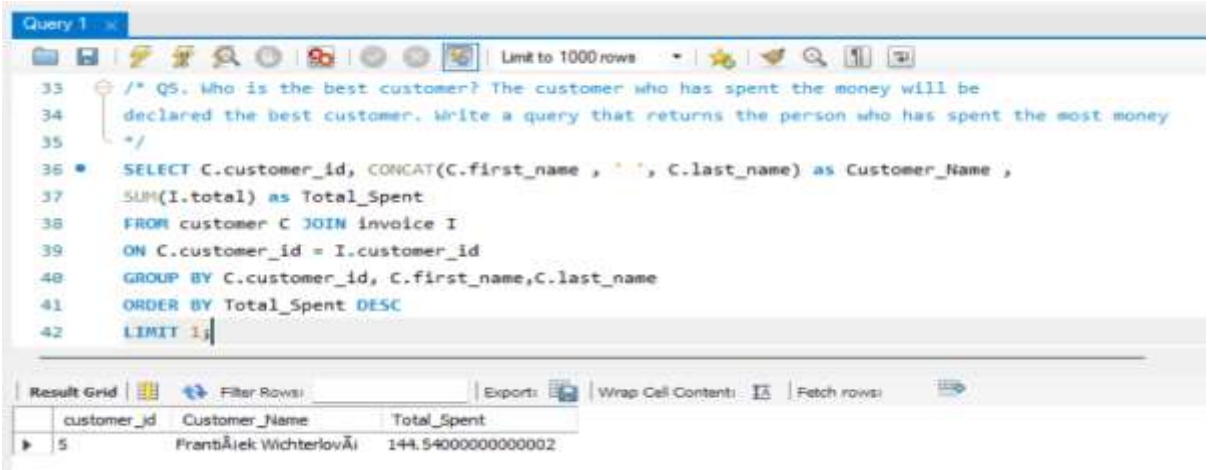
QUERY 3 :



QUERY 4 :



QUERY 5 :



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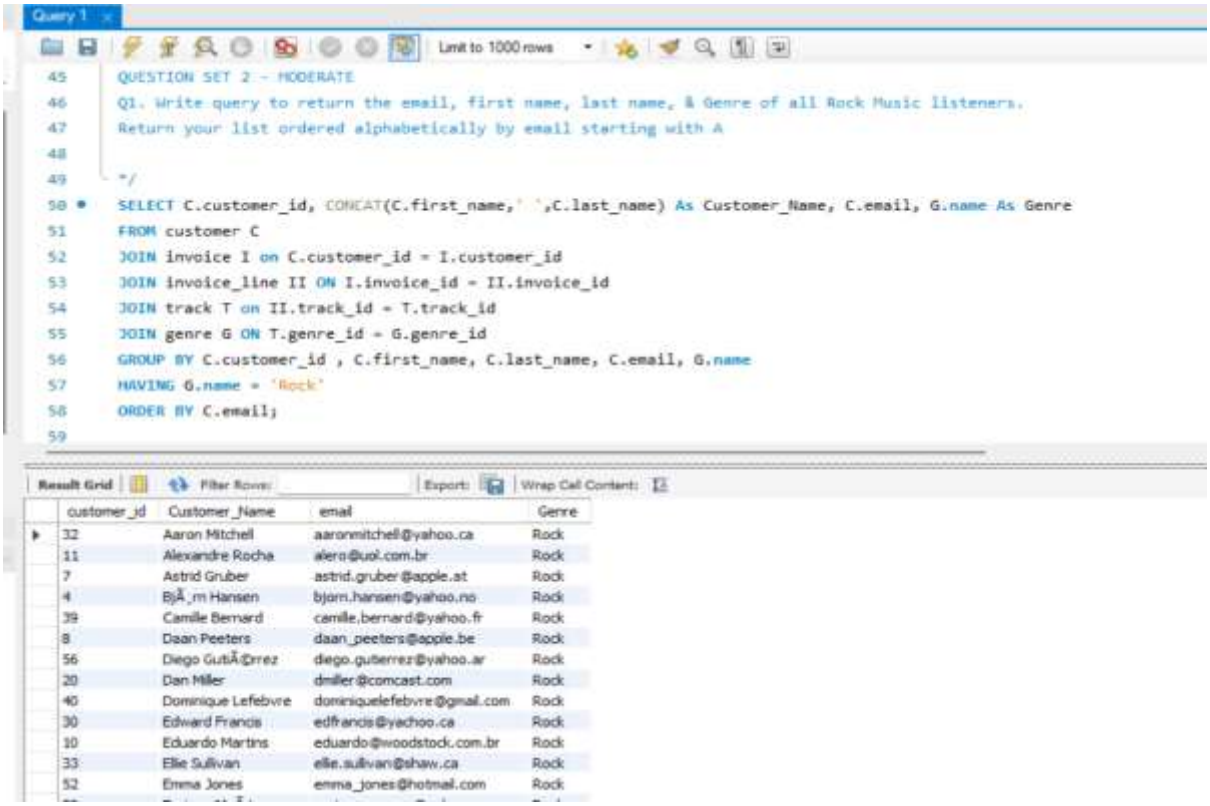
SECTION : MODERATE

QUERY 1 :

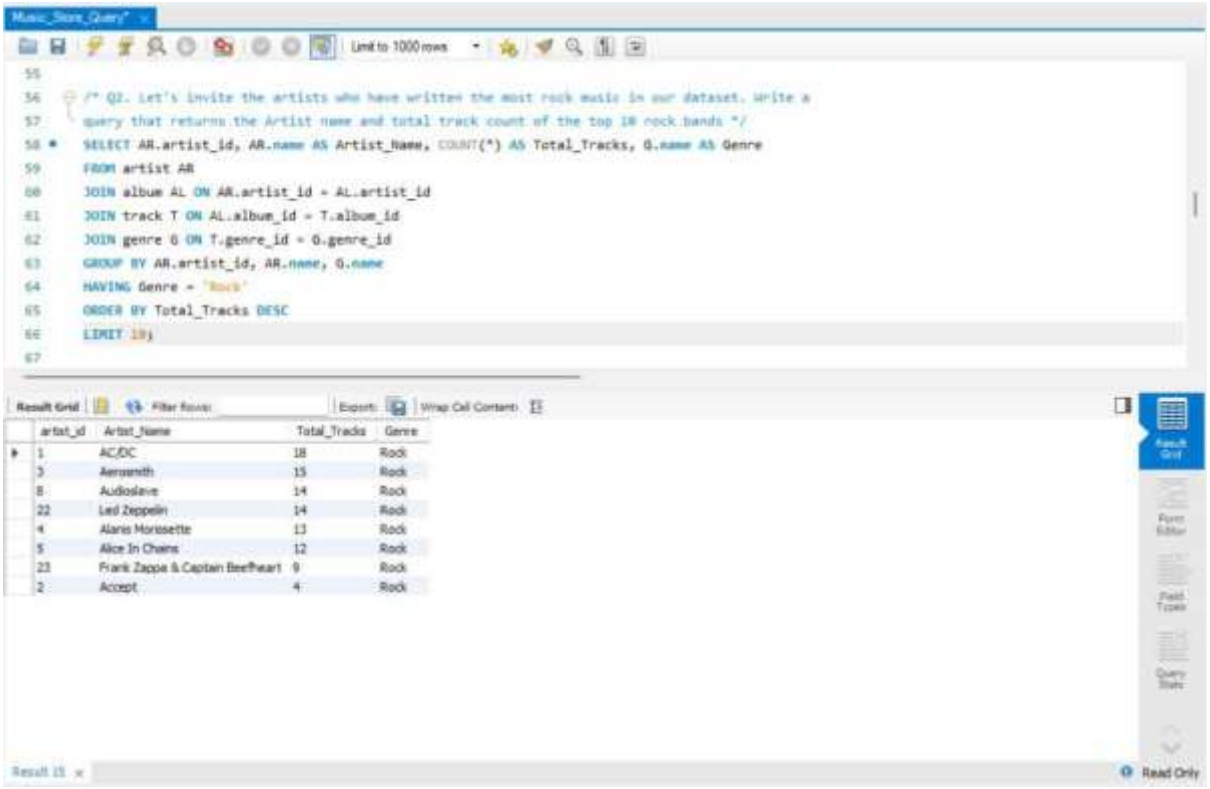


```
QUESTION SET 2 - MODERATE
Q1. Write query to return the email, first name, last name, & Genre of all Rock Music listeners.
Return your list ordered alphabetically by email starting with A

*/
SELECT C.customer_id, CONCAT(C.first_name,' ',C.last_name) As Customer_Name, C.email, G.name As Genre
FROM customer C
JOIN invoice I on C.customer_id = I.customer_id
JOIN invoice_line II ON I.invoice_id = II.invoice_id
JOIN track T on II.track_id = T.track_id
JOIN genre G ON T.genre_id = G.genre_id
GROUP BY C.customer_id , C.first_name, C.last_name, C.email, G.name
HAVING G.name = 'Rock'
ORDER BY C.email;
```

customer_id	Customer_Name	email	Genre
32	Aaron Mitchell	aaronmitchell@yahoo.ca	Rock
11	Alexandre Rocha	alero@uol.com.br	Rock
7	Astrid Gruber	astrid.gruber@apple.at	Rock
4	BjÃ¸rn Hansen	bjorn.hansen@yahoo.no	Rock
39	Camille Bernard	camille.bernard@yahoo.fr	Rock
8	Daan Peeters	daan_peeters@apple.be	Rock
56	Diego GutiÃ©rrez	diego.gutierrez@yahoo.ar	Rock
20	Dan Miller	dmiller@comcast.com	Rock
40	Dominique Lefebvre	dominiquelefebvre@gmail.com	Rock
30	Edward Francis	edfrancis@yachoo.ca	Rock
10	Eduardo Martins	eduardo@woodstock.com.br	Rock
33	Ellie Sullivan	ellie.sullivan@shaw.ca	Rock
52	Emma Jones	emma_jones@hotmail.com	Rock

QUERY 2 :



```
/* Q2. 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 AR.artist_id, AR.name AS Artist_Name, COUNT(*) AS Total_Tracks, G.name AS Genre
FROM artist AR
JOIN album AL ON AR.artist_id = AL.artist_id
JOIN track T ON AL.album_id = T.album_id
JOIN genre G ON T.genre_id = G.genre_id
GROUP BY AR.artist_id, AR.name, G.name
HAVING Genre = 'Rock'
ORDER BY Total_Tracks DESC
LIMIT 10;
```

artist_id	Artist_Name	Total_Tracks	Genre
1	AC/DC	18	Rock
3	Aerosmith	15	Rock
8	Audioslave	14	Rock
22	Led Zeppelin	14	Rock
4	Alanis Morissette	13	Rock
5	Alice In Chains	12	Rock
23	Frank Zappa & Captain Beefheart	9	Rock
2	Accept	4	Rock

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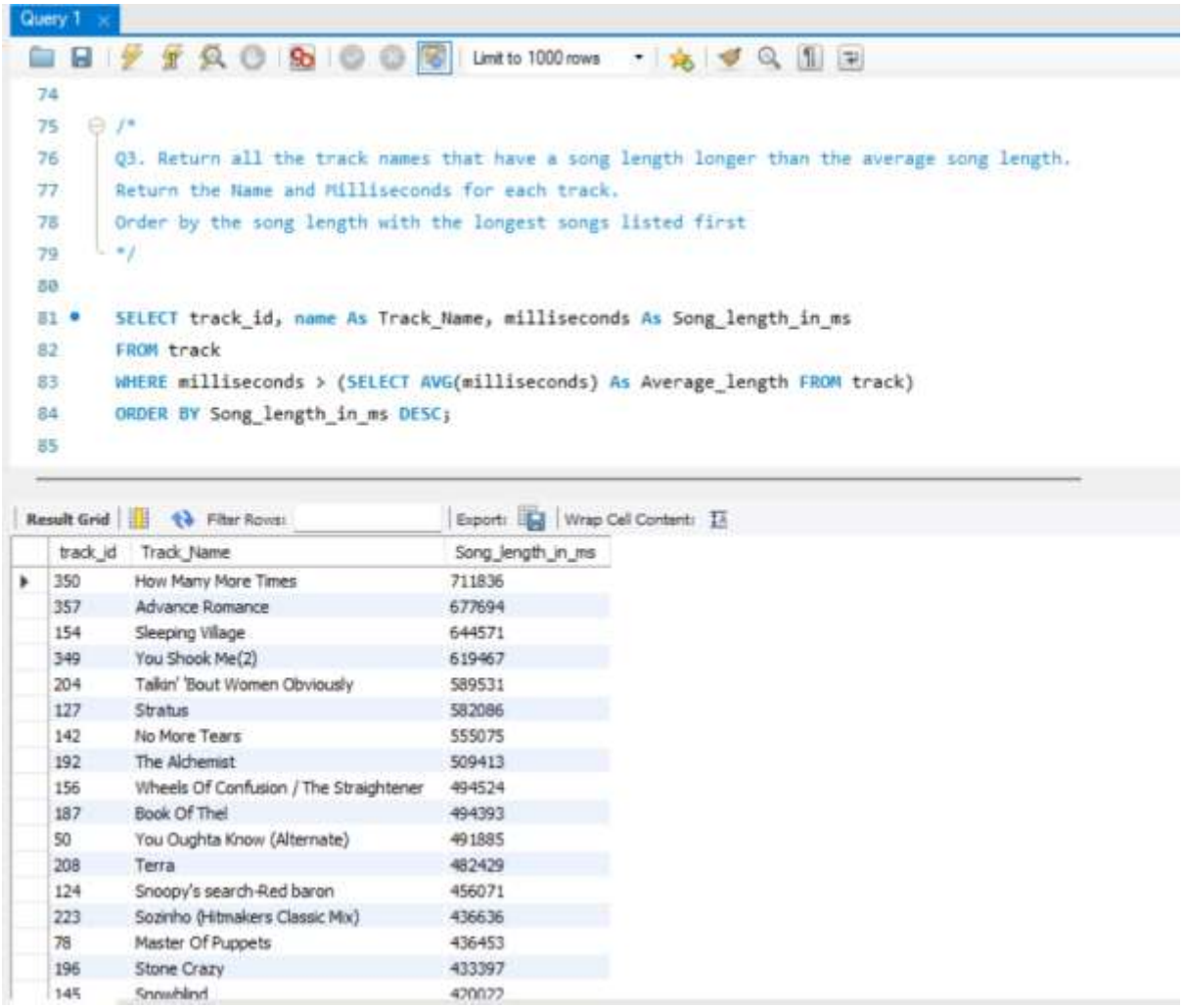
QUERY 3 :

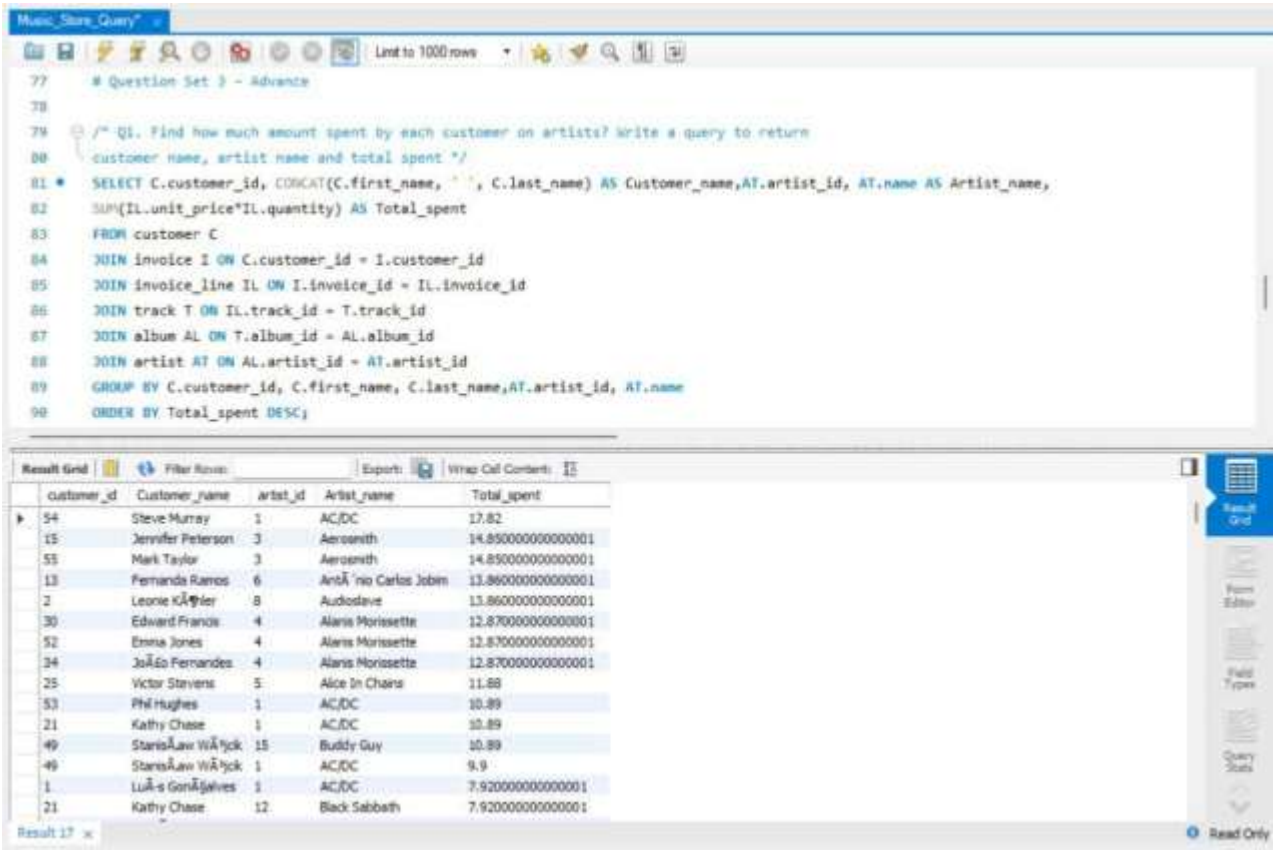


track_id	Track_Name	Song_length_in_ms
350	How Many More Times	711836
357	Advance Romance	677694
154	Sleeping Village	644571
349	You Shook Me(2)	619467
204	Talkin' 'Bout Women Obviously	589531
127	Stratus	582086
142	No More Tears	555075
192	The Alchemist	509413
156	Wheels Of Confusion / The Straightener	494524
187	Book Of Thel	494393
50	You Oughta Know (Alternate)	491885
208	Terra	482429
124	Snoopy's search-Red baron	456071
223	Sozinho (Hitmakers Classic Mix)	436636
78	Master Of Puppets	436453
196	Stone Crazy	433397
145	Snowblind	420022

Project : MySQL Music Store Database

SECTION 3 : ADVANCE

QUERY 1 :

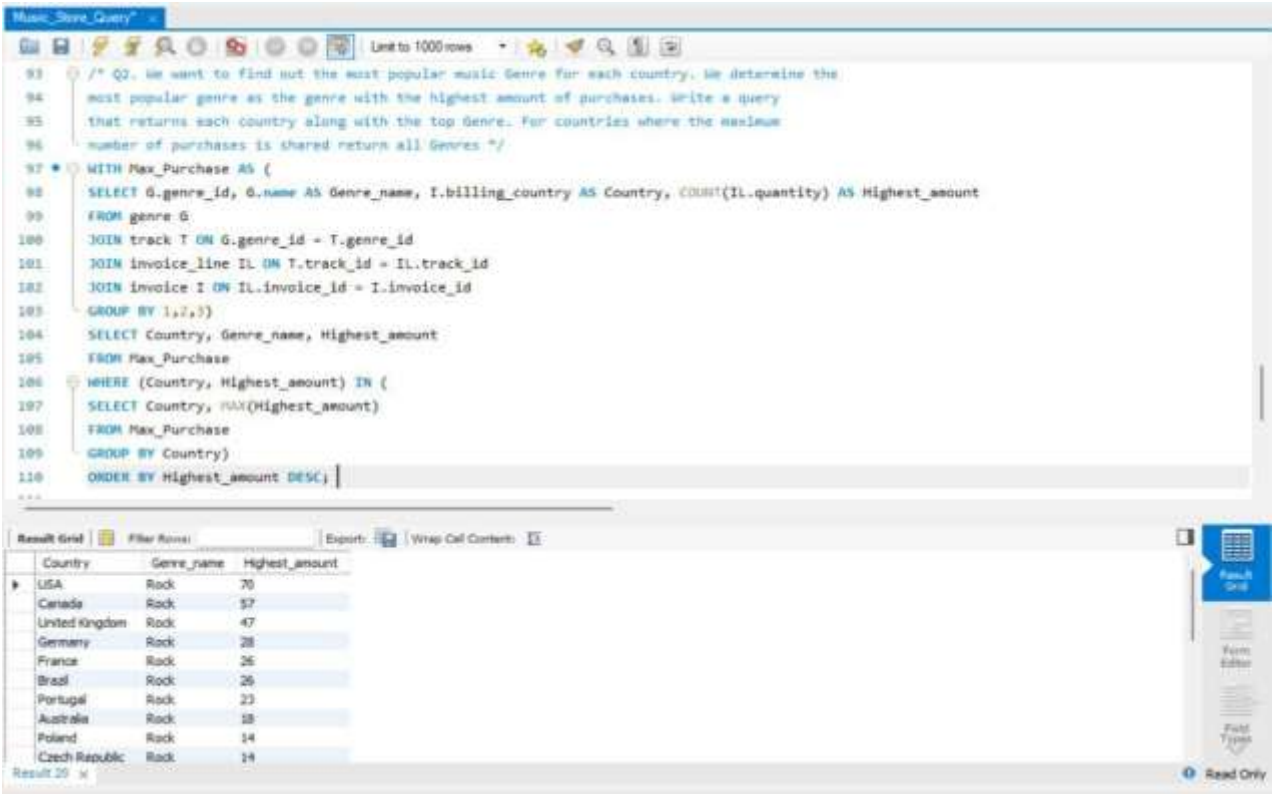


```
# Question Set 3 - Advance

/* Q1. Find how much amount spent by each customer on artists? Write a query to return
customer name, artist name and total spent */
SELECT C.customer_id, CONCAT(C.first_name, ' ', C.last_name) AS Customer_name,AT.artist_id, AT.name AS Artist_name,
SUM(IL.unit_price*IL.quantity) AS Total_spent
FROM customer C
JOIN invoice I ON C.customer_id = I.customer_id
JOIN invoice_line IL ON I.invoice_id = IL.invoice_id
JOIN track T ON IL.track_id = T.track_id
JOIN album AL ON T.album_id = AL.album_id
JOIN artist AT ON AL.artist_id = AT.artist_id
GROUP BY C.customer_id, C.first_name, C.last_name,AT.artist_id, AT.name
ORDER BY Total_spent DESC;
```

customer_id	Customer_name	artist_id	Artist_name	Total_spent
54	Steve Murray	1	AC/DC	17.82
15	Jennifer Peterson	3	Aerosmith	14.850000000000001
55	Mark Taylor	3	Aerosmith	14.850000000000001
13	Fernanda Ramos	6	AntÃ´nio Carlos Jobim	13.860000000000001
2	Leonie KÃ¶hler	8	Audioslave	13.860000000000001
30	Edward Francis	4	Alanis Morissette	12.870000000000001
52	Emma Jones	4	Alanis Morissette	12.870000000000001
24	JoÃ£o Fernandes	4	Alanis Morissette	12.870000000000001
25	Victor Stevens	5	Alice In Chains	11.88
53	Phil Hughes	1	AC/DC	10.89
21	Kathy Chase	1	AC/DC	10.89
49	StanisÅaw WÃ³jcik	15	Buddy Guy	10.89
49	StanisÅaw WÃ³jcik	1	AC/DC	9.9
1	LuÃs GonÃ§alves	1	AC/DC	7.920000000000001
21	Kathy Chase	12	Black Sabbath	7.920000000000001

QUERY 2 :



```
/* Q2. 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 Max_Purchase AS (
SELECT G.genre_id, G.name AS Genre_name, I.billing_country AS Country, COUNT(IL.quantity) AS Highest_amount
FROM genre G
JOIN track T ON G.genre_id = T.genre_id
JOIN invoice_line IL ON T.track_id = IL.track_id
JOIN invoice I ON IL.invoice_id = I.invoice_id
GROUP BY 1,2,3)
SELECT Country, Genre_name, Highest_amount
FROM Max_Purchase
WHERE (Country, Highest_amount) IN (
SELECT Country, MAX(Highest_amount)
FROM Max_Purchase
GROUP BY Country)
ORDER BY Highest_amount DESC;
```

Country	Genre_name	Highest_amount
USA	Rock	70
Canada	Rock	57
United Kingdom	Rock	47
Germany	Rock	28
France	Rock	26
Brazil	Rock	26
Portugal	Rock	23
Australia	Rock	18
Poland	Rock	14
Czech Republic	Rock	14

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QUERY 3 :