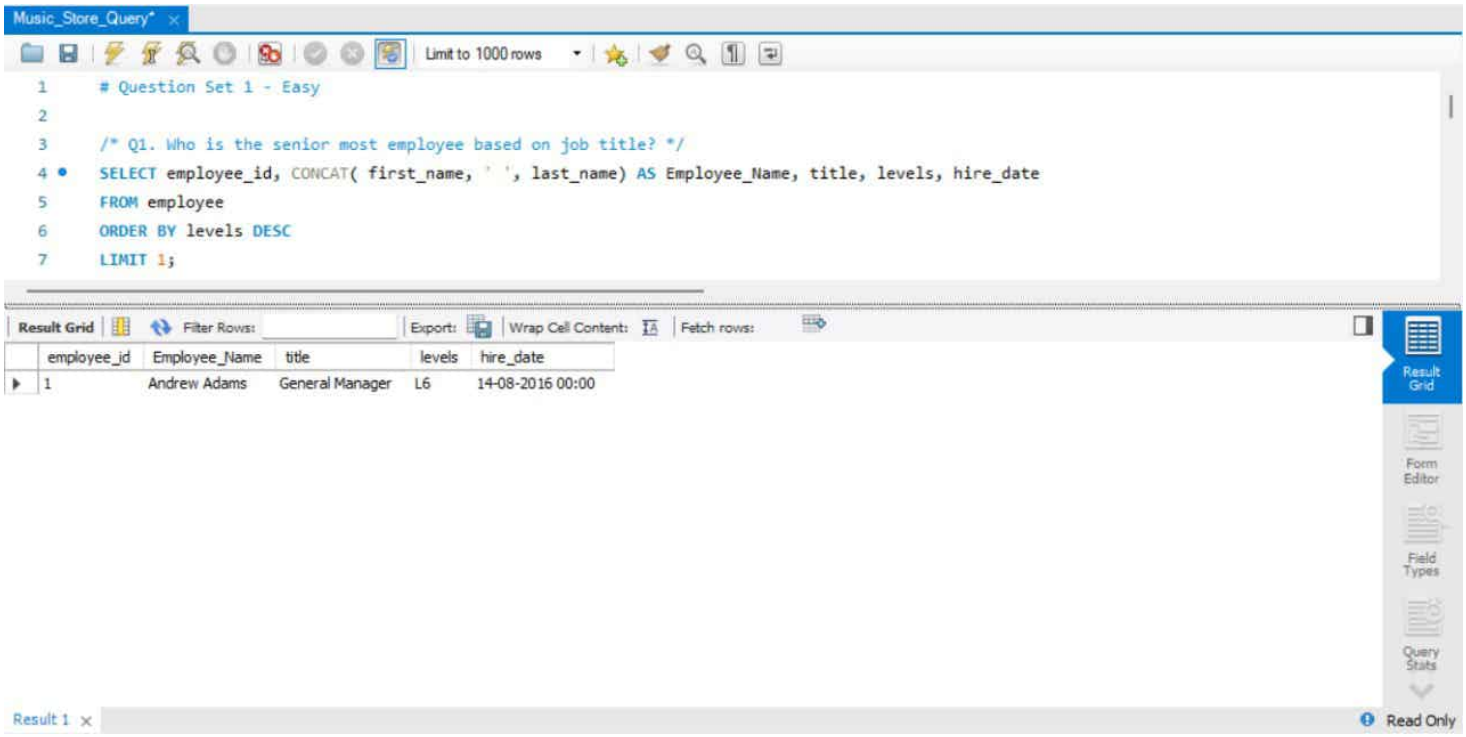
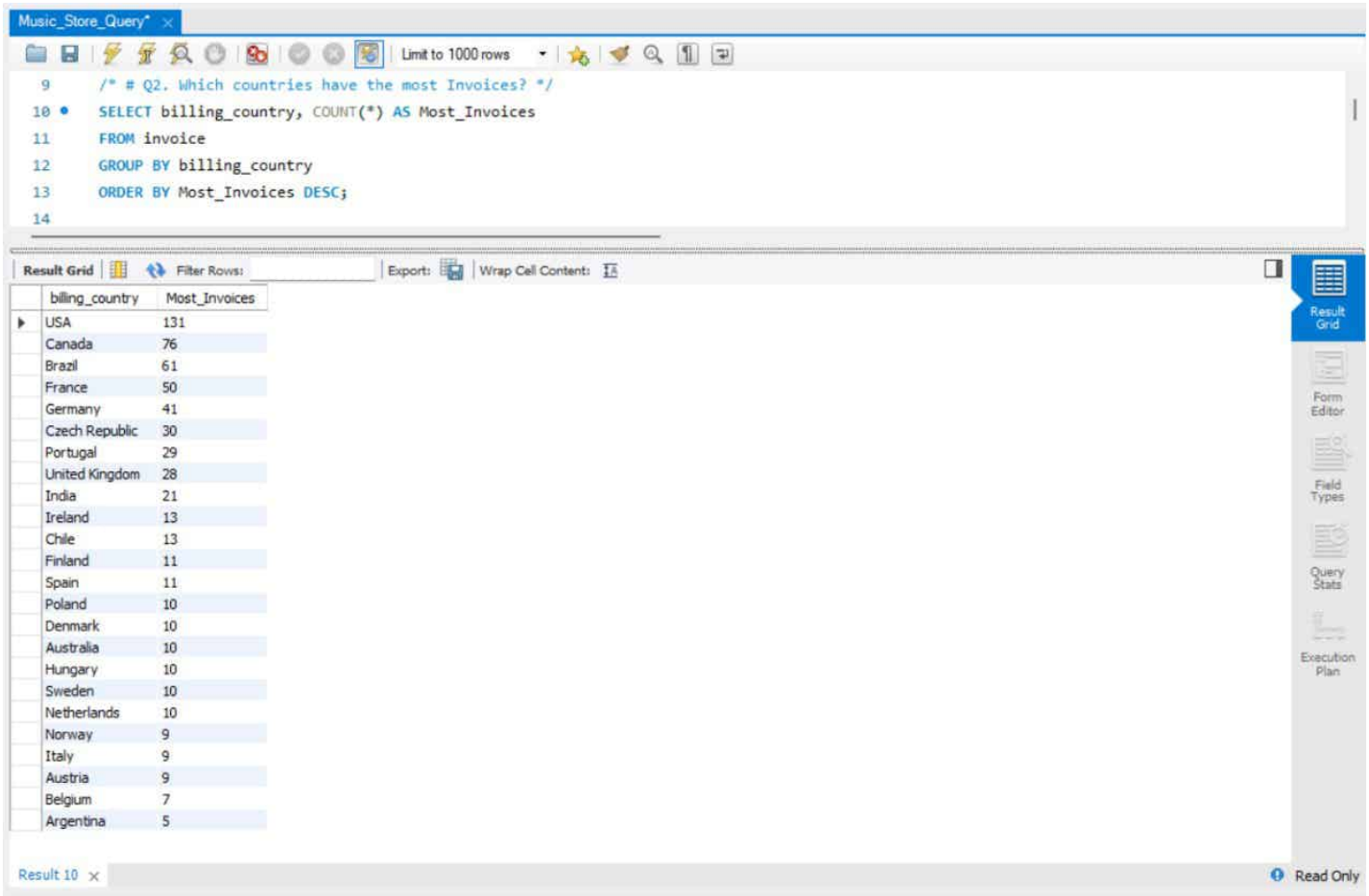
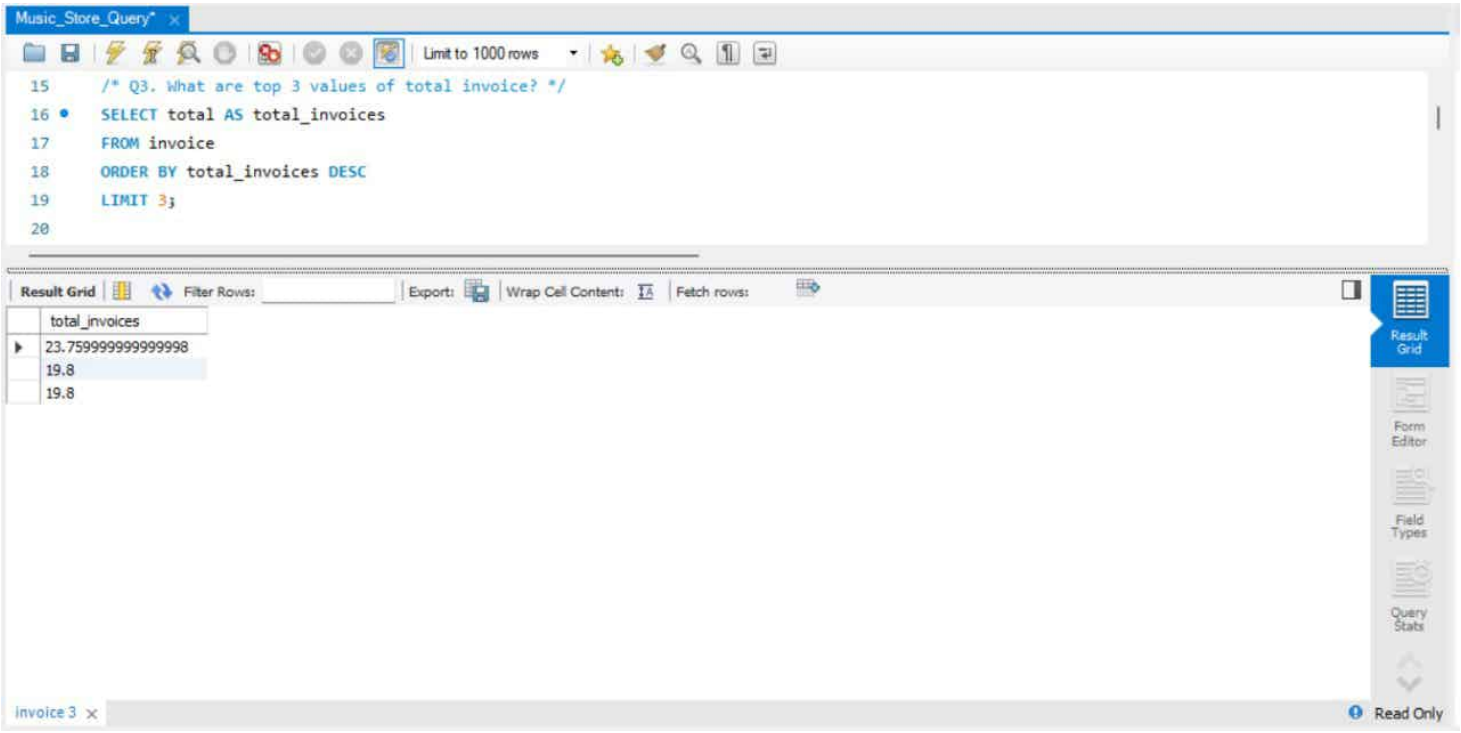
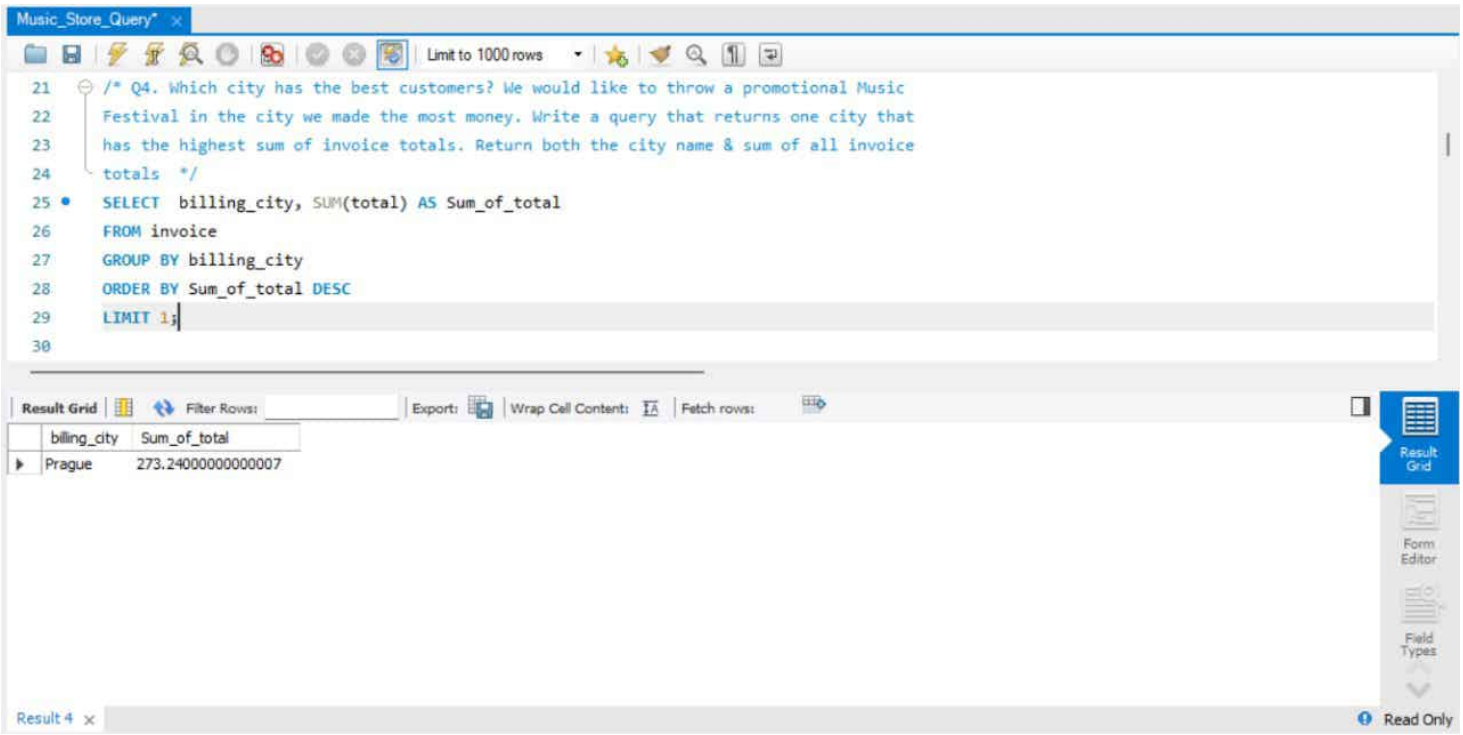
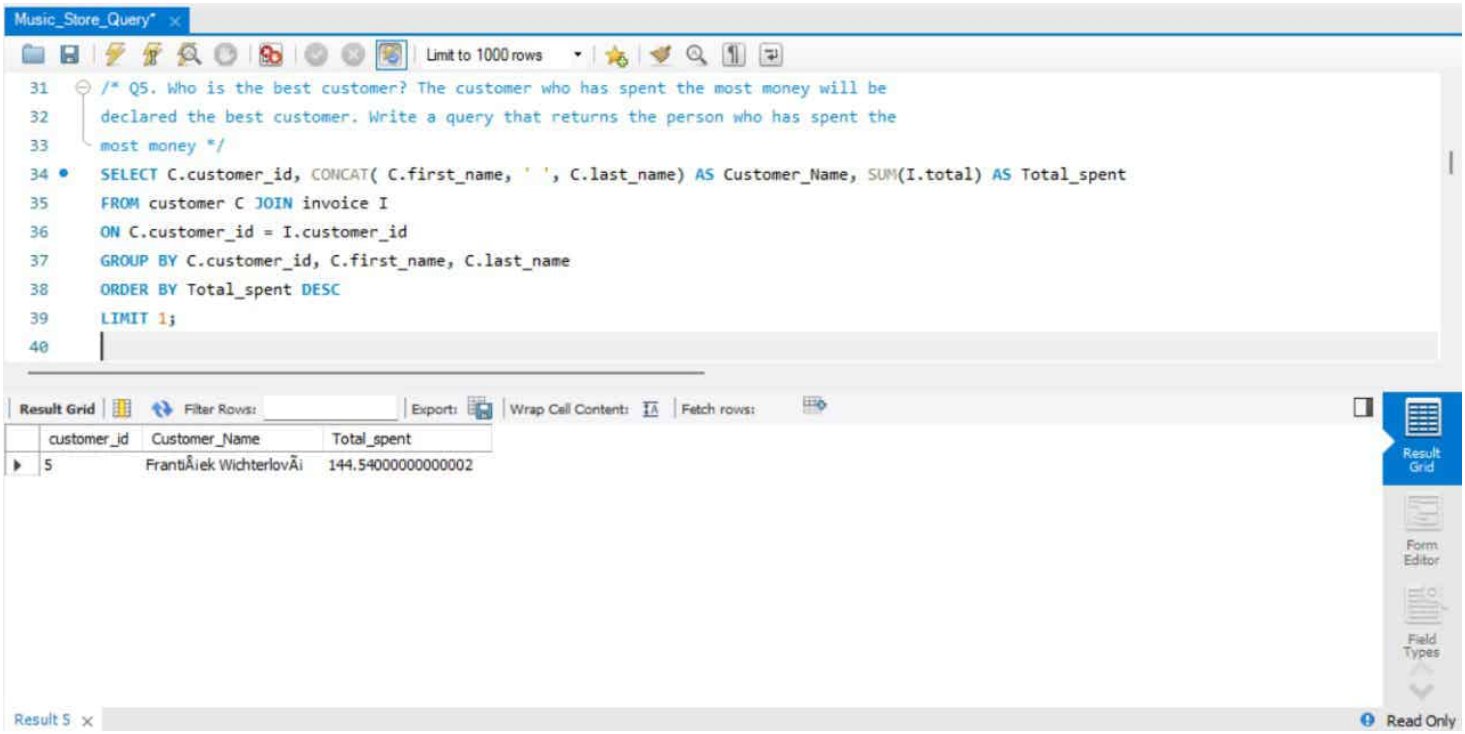
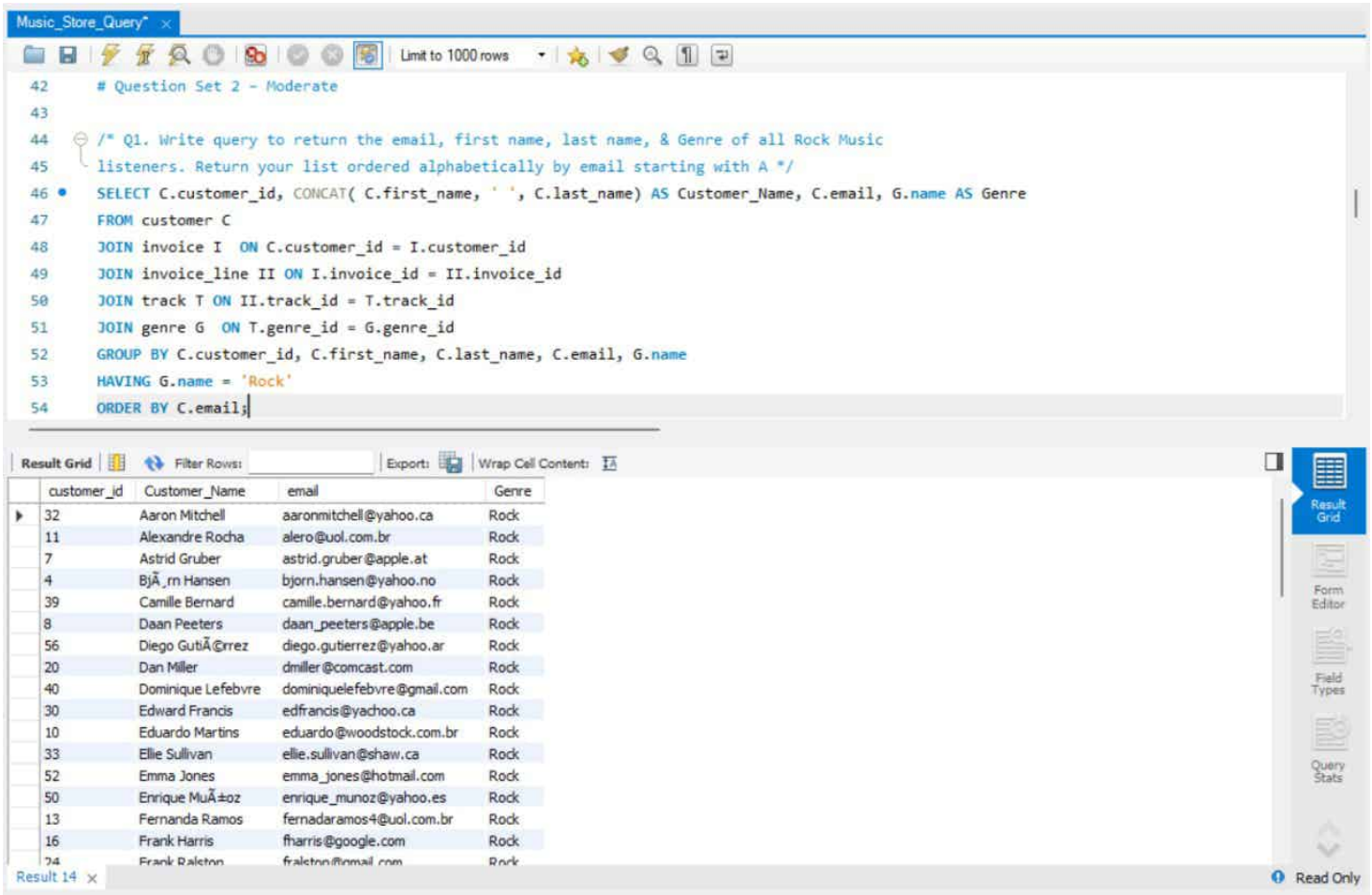

Music_Store_Query*
Limit to 1000 rows
1 # Question Set 1 - Easy
2
3 /* Q1. Who is the senior most employee based on job title? */
4 SELECT employee_id, CONCAT(first_name, ' ', last_name) AS Employee_Name, title, levels, hire_date
5 FROM employee
6 ORDER BY levels DESC
7 LIMIT 1;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:
employee_id
Employee_Name
title
levels
hire_date
1
Andrew Adams
General Manager
L6
14-08-2016 00:00
Result Grid
Form Editor
Field Types
Query Stats
Result 1
Read Only

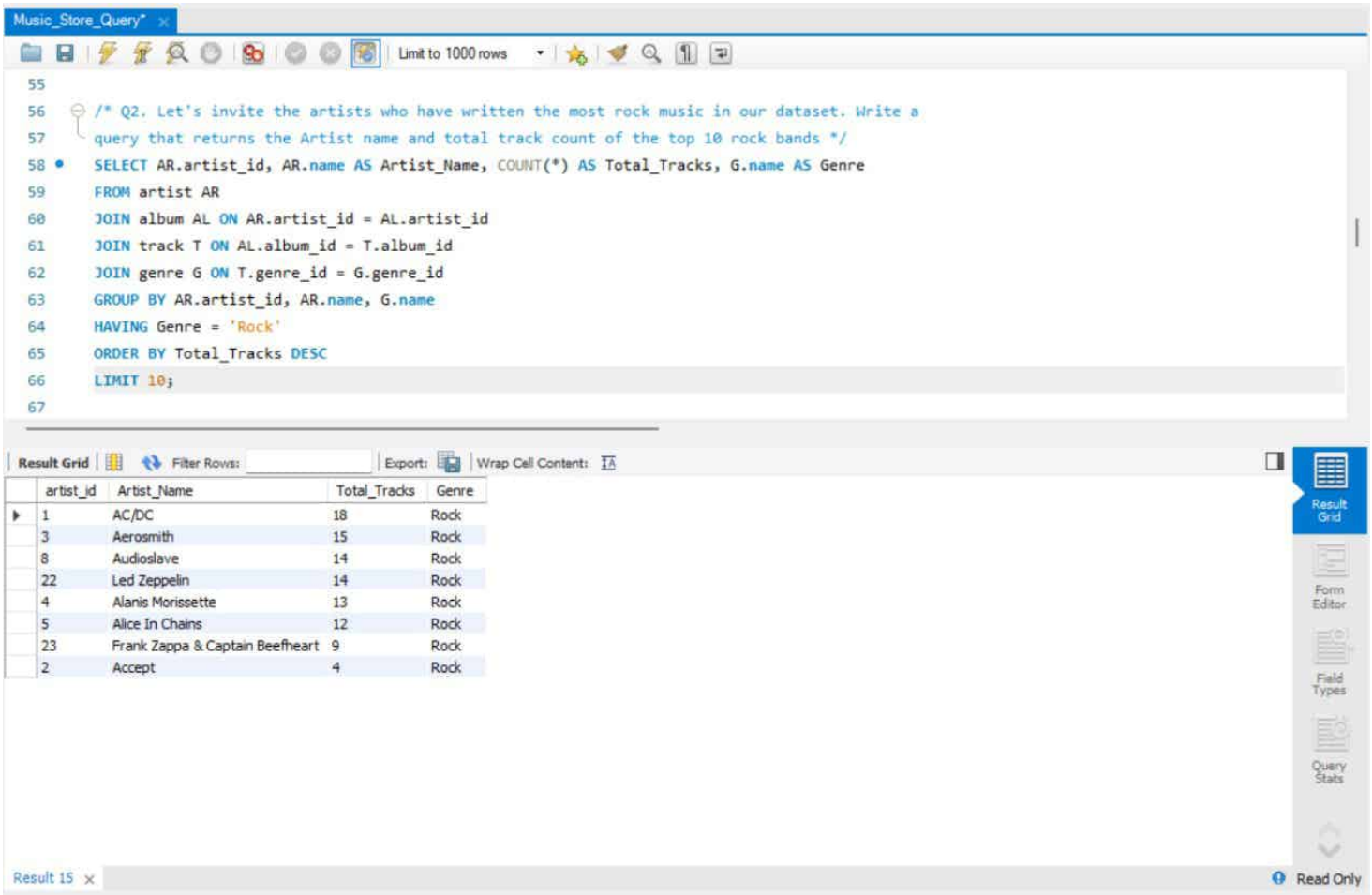

Music_Store_Query*
Limit to 1000 rows
/* # Q2. Which countries have the most Invoices? */
SELECT billing_country, COUNT(*) AS Most_Invoices
FROM invoice
GROUP BY billing_country
ORDER BY Most_Invoices DESC;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
billing_country Most_Invoices
USA 131
Canada 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
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
Result 10
Read Only

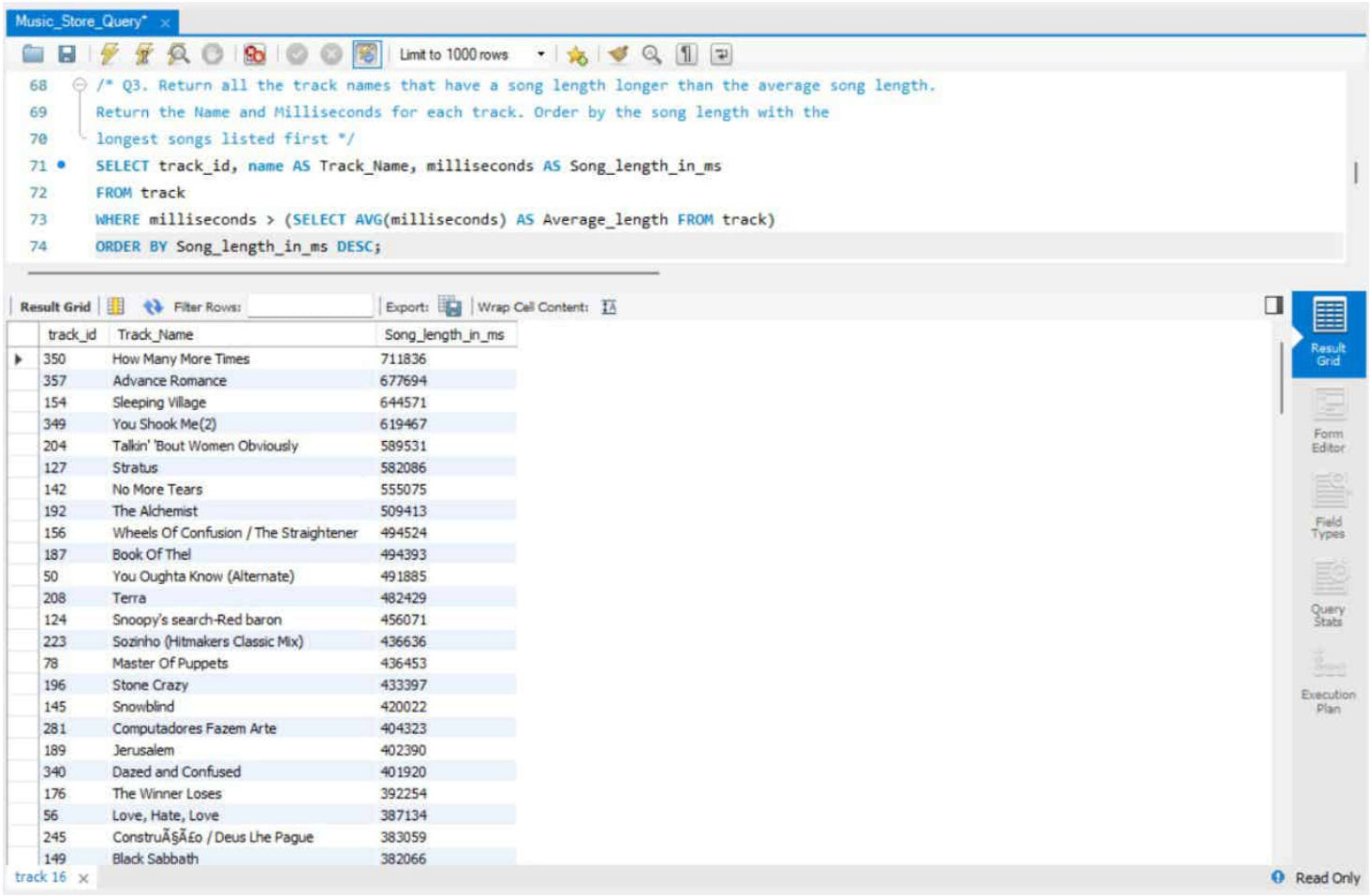

Music_Store_Query*
Limit to 1000 rows
15 /* Q3. What are top 3 values of total invoice? */
16 SELECT total AS total_invoices
17 FROM invoice
18 ORDER BY total_invoices DESC
19 LIMIT 3;
20
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:
total_invoices
23.759999999999998
19.8
19.8
Result Grid
Form Editor
Field Types
Query Stats
invoice 3
Read Only

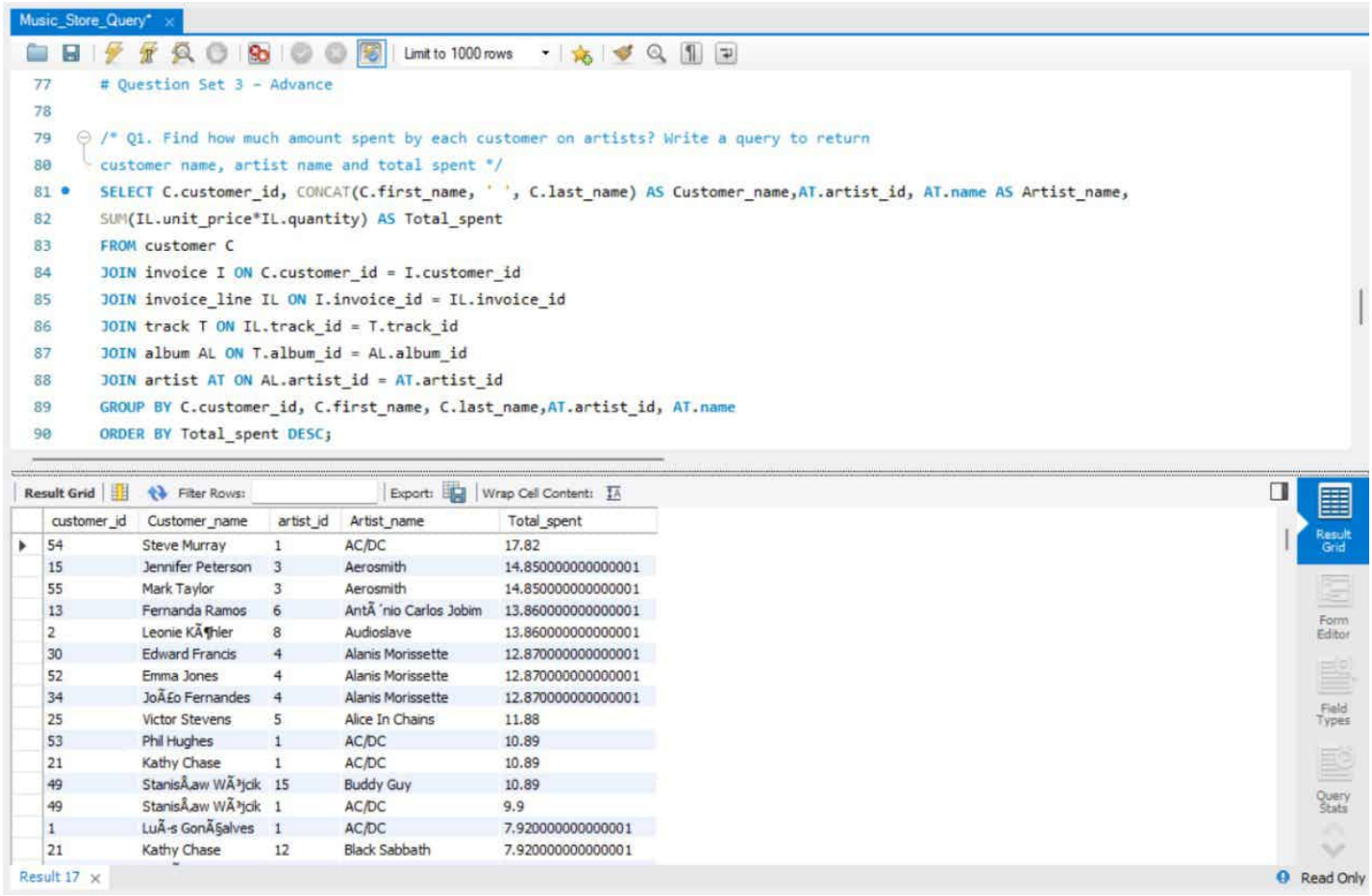

Music_Store_Query*
Limit to 1000 rows
/* Q4. Which city has the best customers? We would like to throw a promotional Music
Festival in the city we made the most money. Write a query that returns one city that
has the highest sum of invoice totals. Return both the city name & sum of all invoice
totals */
SELECT billing_city, SUM(total) AS Sum_of_total
FROM invoice
GROUP BY billing_city
ORDER BY Sum_of_total DESC
LIMIT 1;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:
billing_city
Sum_of_total
Prague
273.24000000000007
Result Grid
Form Editor
Field Types
Result 4
Read Only


Music_Store_Query*
Limit to 1000 rows
/* Q5. Who is the best customer? The customer who has spent the most money will be
declared the best customer. Write a query that returns the person who has spent the
most money */
SELECT C.customer_id, CONCAT(C.first_name, ' ', C.last_name) AS Customer_Name, SUM(I.total) AS Total_spent
FROM customer C JOIN invoice I
ON C.customer_id = I.customer_id
GROUP BY C.customer_id, C.first_name, C.last_name
ORDER BY Total_spent DESC
LIMIT 1;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:
customer_id
Customer_Name
Total_spent
5
FrantiÃiek WichterlovÃi
144.54000000000002
Result Grid
Form Editor
Field Types
Result 5
Read Only


Music_Store_Query*
Limit to 1000 rows
42 # Question Set 2 - Moderate
43
44 /* Q1. Write query to return the email, first name, last name, & Genre of all Rock Music
45 listeners. Return your list ordered alphabetically by email starting with A */
46 SELECT C.customer_id, CONCAT(C.first_name, ' ', C.last_name) AS Customer_Name, C.email, G.name AS Genre
47 FROM customer C
48 JOIN invoice I ON C.customer_id = I.customer_id
49 JOIN invoice_line II ON I.invoice_id = II.invoice_id
50 JOIN track T ON II.track_id = T.track_id
51 JOIN genre G ON T.genre_id = G.genre_id
52 GROUP BY C.customer_id, C.first_name, C.last_name, C.email, G.name
53 HAVING G.name = 'Rock'
54 ORDER BY C.email;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
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
50 Enrique MuÃ±oz enrique_munoz@yahoo.es Rock
13 Fernanda Ramos fernadaramos4@uol.com.br Rock
16 Frank Harris fharris@google.com Rock
Result Grid
Form Editor
Field Types
Query Stats
Result 14
Read Only


Music_Store_Query*
Limit to 1000 rows
55
56 /* Q2. Let's invite the artists who have written the most rock music in our dataset. Write a
57 query that returns the Artist name and total track count of the top 10 rock bands */
58 SELECT AR.artist_id, AR.name AS Artist_Name, COUNT(*) AS Total_Tracks, G.name AS Genre
59 FROM artist AR
60 JOIN album AL ON AR.artist_id = AL.artist_id
61 JOIN track T ON AL.album_id = T.album_id
62 JOIN genre G ON T.genre_id = G.genre_id
63 GROUP BY AR.artist_id, AR.name, G.name
64 HAVING Genre = 'Rock'
65 ORDER BY Total_Tracks DESC
66 LIMIT 10;
67
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
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
Result Grid
Form Editor
Field Types
Query Stats
Result 15
Read Only


Music_Store_Query*
Limit to 1000 rows
68 /* Q3. Return all the track names that have a song length longer than the average song length.
69 Return the Name and Milliseconds for each track. Order by the song length with the
70 longest songs listed first */
71 SELECT track_id, name AS Track_Name, milliseconds AS Song_length_in_ms
72 FROM track
73 WHERE milliseconds > (SELECT AVG(milliseconds) AS Average_length FROM track)
74 ORDER BY Song_length_in_ms DESC;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
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
281 Computadores Fazem Arte 404323
189 Jerusalem 402390
340 Dazed and Confused 401920
176 The Winner Loses 392254
56 Love, Hate, Love 387134
245 ConstruÃ§Ã£o / Deus Lhe Pague 383059
149 Black Sabbath 382066
Result Grid
Form Editor
Field Types
Query Stats
Execution Plan
track 16
Read Only



Music_Store_Query*

Limit to 1000 rows

```
77  # Question Set 3 - Advance
78
79  /* Q1. Find how much amount spent by each customer on artists? Write a query to return
80  customer name, artist name and total spent */
81  SELECT C.customer_id, CONCAT(C.first_name, ' ', C.last_name) AS Customer_name,AT.artist_id, AT.name AS Artist_name,
82  SUM(IL.unit_price*IL.quantity) AS Total_spent
83  FROM customer C
84  JOIN invoice I ON C.customer_id = I.customer_id
85  JOIN invoice_line IL ON I.invoice_id = IL.invoice_id
86  JOIN track T ON IL.track_id = T.track_id
87  JOIN album AL ON T.album_id = AL.album_id
88  JOIN artist AT ON AL.artist_id = AT.artist_id
89  GROUP BY C.customer_id, C.first_name, C.last_name,AT.artist_id, AT.name
90  ORDER BY Total_spent DESC;
```

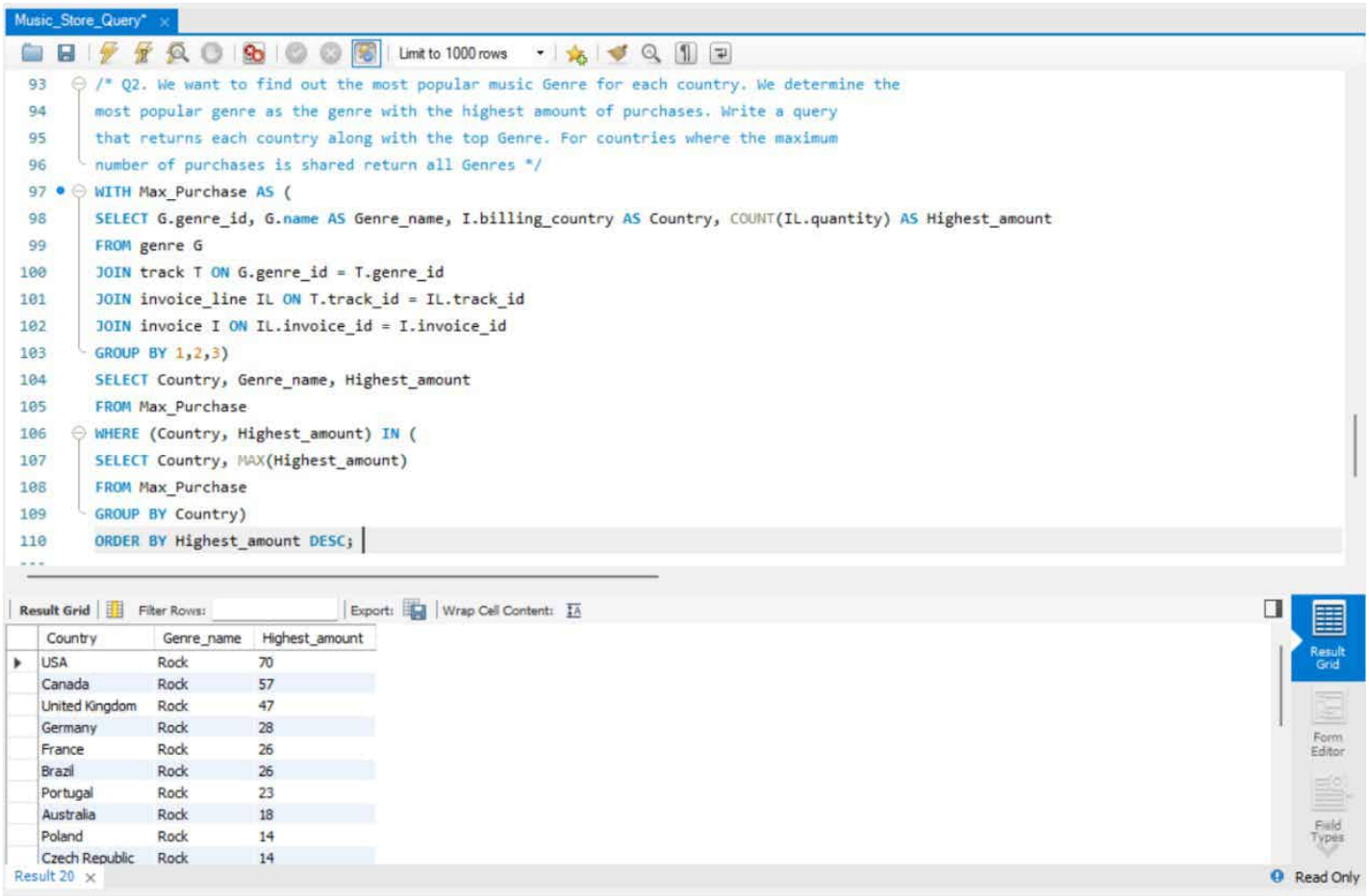
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

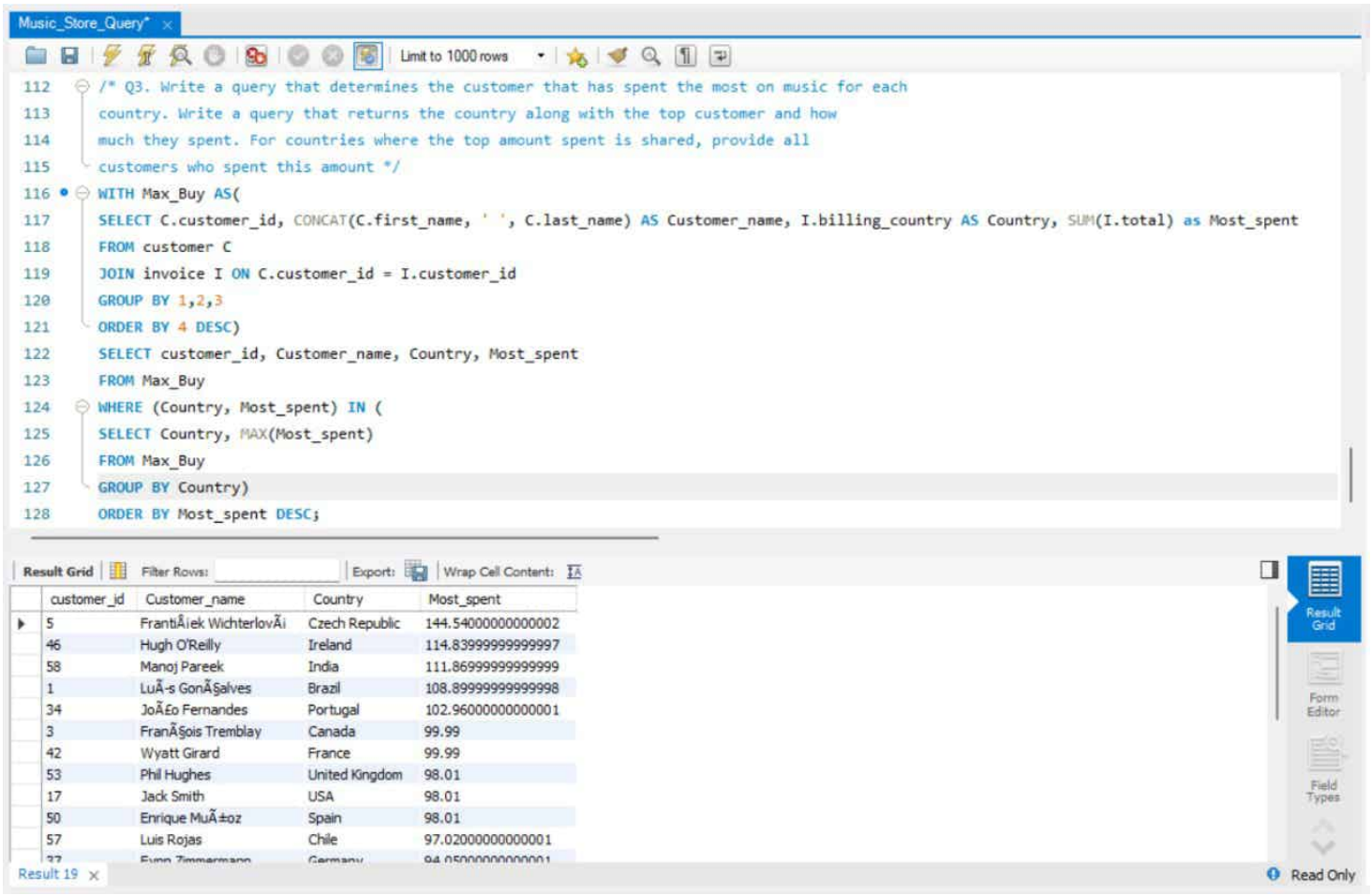
customer_id	Customer_name	artist_id	Artist_name	Total_spent
54	Steve Murray	1	AC/DC	17.82
15	Jennifer Peterson	3	Aerosmith	14.850000000000001
55	Mark Taylor	3	Aerosmith	14.850000000000001
13	Fernanda Ramos	6	AntÃ´nio Carlos Jobim	13.860000000000001
2	Leonie KÃ¶hler	8	Audioslave	13.860000000000001
30	Edward Francis	4	Alanis Morissette	12.870000000000001
52	Emma Jones	4	Alanis Morissette	12.870000000000001
34	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	StanisÅ‚aw WÃ³jcik	15	Buddy Guy	10.89
49	StanisÅ‚aw WÃ³jcik	1	AC/DC	9.9
1	LuÃs GonÃ§alves	1	AC/DC	7.920000000000001
21	Kathy Chase	12	Black Sabbath	7.920000000000001

Result 17

Result Grid | Form Editor | Field Types | Query Stats

Read Only


Music_Store_Query*
Limit to 1000 rows
/* 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;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
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
Result 20
Result Grid
Form Editor
Field Types
Read Only


Music_Store_Query*
Limit to 1000 rows
/* Q3. 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 Max_Buy AS(
SELECT C.customer_id, CONCAT(C.first_name, ' ', C.last_name) AS Customer_name, I.billing_country AS Country, SUM(I.total) as Most_spent
FROM customer C
JOIN invoice I ON C.customer_id = I.customer_id
GROUP BY 1,2,3
ORDER BY 4 DESC)
SELECT customer_id, Customer_name, Country, Most_spent
FROM Max_Buy
WHERE (Country, Most_spent) IN (
SELECT Country, MAX(Most_spent)
FROM Max_Buy
GROUP BY Country)
ORDER BY Most_spent DESC;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_id Customer_name Country Most_spent
5 FrantiÃiek WichterlovÃi Czech Republic 144.54000000000002
46 Hugh O'Reilly Ireland 114.83999999999997
58 Manoj Pareek India 111.86999999999999
1 LuÃ-s GonÃ§alves Brazil 108.89999999999998
34 JoÃ£o Fernandes Portugal 102.96000000000001
3 FranÃ§ois Tremblay Canada 99.99
42 Wyatt Girard France 99.99
53 Phil Hughes United Kingdom 98.01
17 Jack Smith USA 98.01
50 Enrique MuÃ±oz Spain 98.01
57 Luis Rojas Chile 97.02000000000001
Result Grid
Form Editor
Field Types
Result 19
Read Only