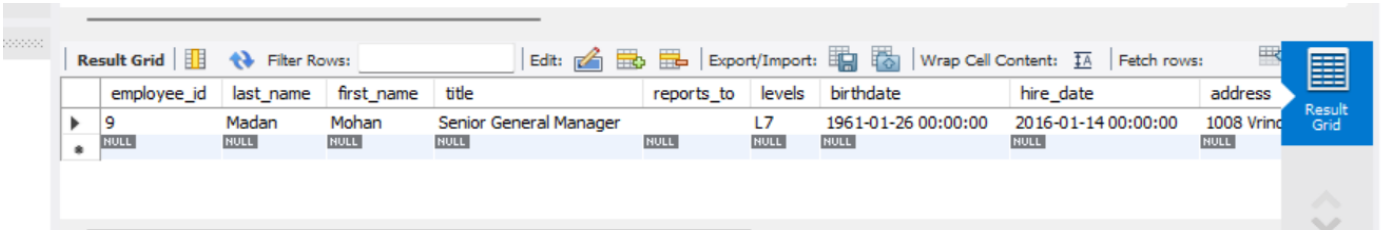
SQL PROJECT- MUSIC STORE DATA ANALYSIS

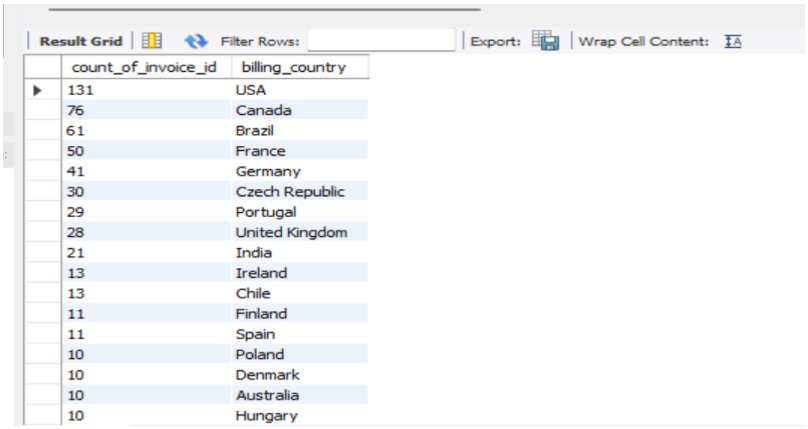
Question Set 1 - Easy

```
use music_database;
-- 1. Who is the senior most employee based on job title?
select *
from employee e
order by levels desc limit 1 ;
```



employee_id	last_name	first_name	title	reports_to	levels	birthdate	hire_date	address
9	Madan	Mohan	Senior General Manager	NULL	L7	1961-01-26 00:00:00	2016-01-14 00:00:00	1008 Vrind

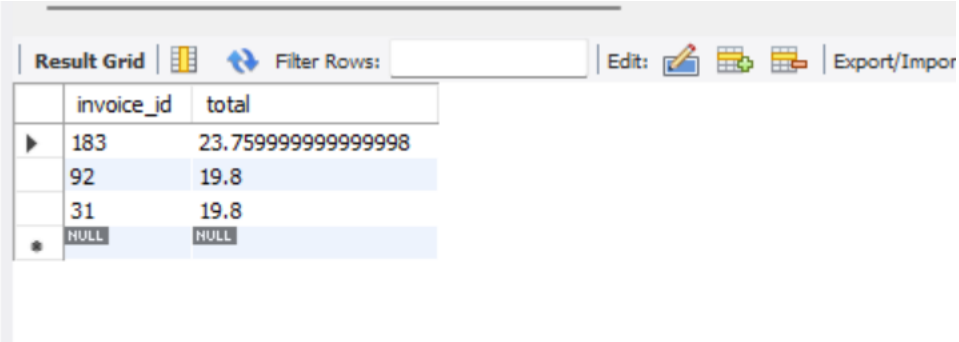
```
-- 2. Which countries have the most Invoices?
select count(invoice_id) as count_of_invoice_id, billing_country
from invoice
group by billing_country
order by count_of_invoice_id desc;
```



count_of_invoice_id	billing_country
131	USA
76	Canada
61	Brazil
50	France
41	Germany
30	Czech Republic
29	Portugal
28	United Kingdom
21	India
13	Ireland
13	Chile
11	Finland
11	Spain
10	Poland
10	Denmark
10	Australia
10	Hungary

-- 3.What are top 3 values of total invoice?

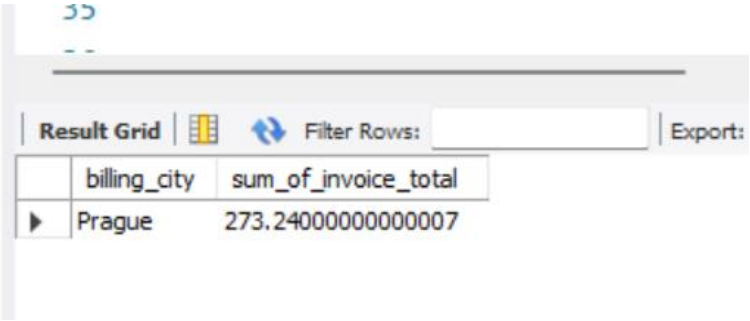
```
select invoice_id,total
from invoice
order by total desc limit 3;
```



invoice_id	total
183	23.759999999999998
92	19.8
31	19.8
NULL	NULL

-- 4. 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 onecity that has the highest sum of invoice totals. Return both the city name & sum of all invoice totals .

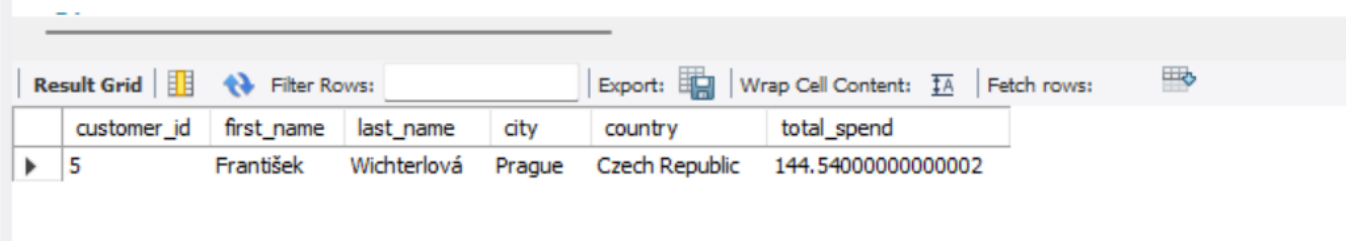
```
select  billing_city, sum(total) as sum_of_invoice_total
from invoice
group by billing_city
order by sum_of_invoice_total desc limit 1;
```



billing_city	sum_of_invoice_total
Prague	273.24000000000007

-- 5. 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,c.first_name,c.last_name,c.city,
c.country,sum(i.total) as total_spend
from invoice i
join customers c
on c.customer_id=i.customer_id
group by c.customer_id
order by total_spend desc limit 1;
```



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

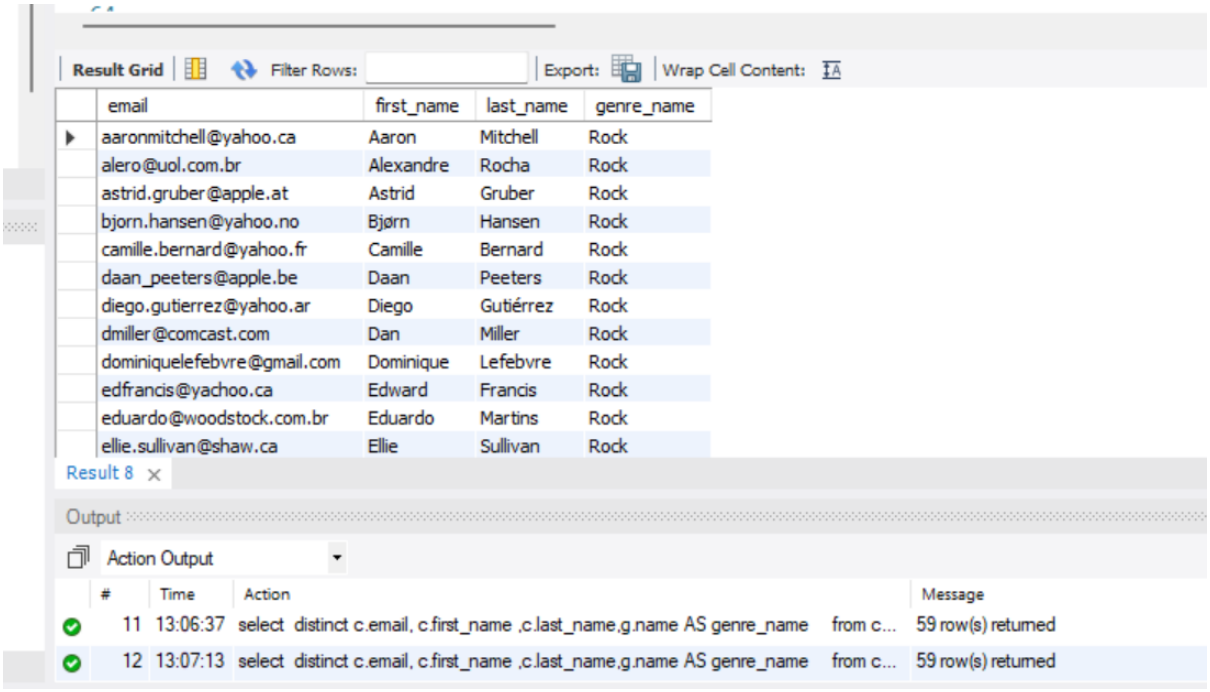
customer_id	first_name	last_name	city	country	total_spend
5	František	Wichterlová	Prague	Czech Republic	144.54000000000002

-- Question Set 2 – Moderate

-- 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  distinct c.email, c.first_name ,c.last_name,g.name AS genre_name
from customers c
join invoice i  on c.customer_id= i.customer_id
join invoice_line il on il.invoice_id=i.invoice_id
join track t on il.track_id=t.track_id
JOIN genre g ON t.genre_id = g.genre_id
where g.name = 'Rock'
```

order by c.email ASC;



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

email	first_name	last_name	genre_name
aaronmitchell@yahoo.ca	Aaron	Mitchell	Rock
alero@uol.com.br	Alexandre	Rocha	Rock
astrid.gruber@apple.at	Astrid	Gruber	Rock
bjorn.hansen@yahoo.no	Bjørn	Hansen	Rock
camille.bernard@yahoo.fr	Camille	Bernard	Rock
daan_peeters@apple.be	Daan	Peeters	Rock
diego.gutierrez@yahoo.ar	Diego	Gutiérrez	Rock
dmiller@comcast.com	Dan	Miller	Rock
dominiquelefebvre@gmail.com	Dominique	Lefebvre	Rock
edfrancis@yachoo.ca	Edward	Francis	Rock
eduardo@woodstock.com.br	Eduardo	Martins	Rock
ellie.sullivan@shaw.ca	Ellie	Sullivan	Rock

Result 8

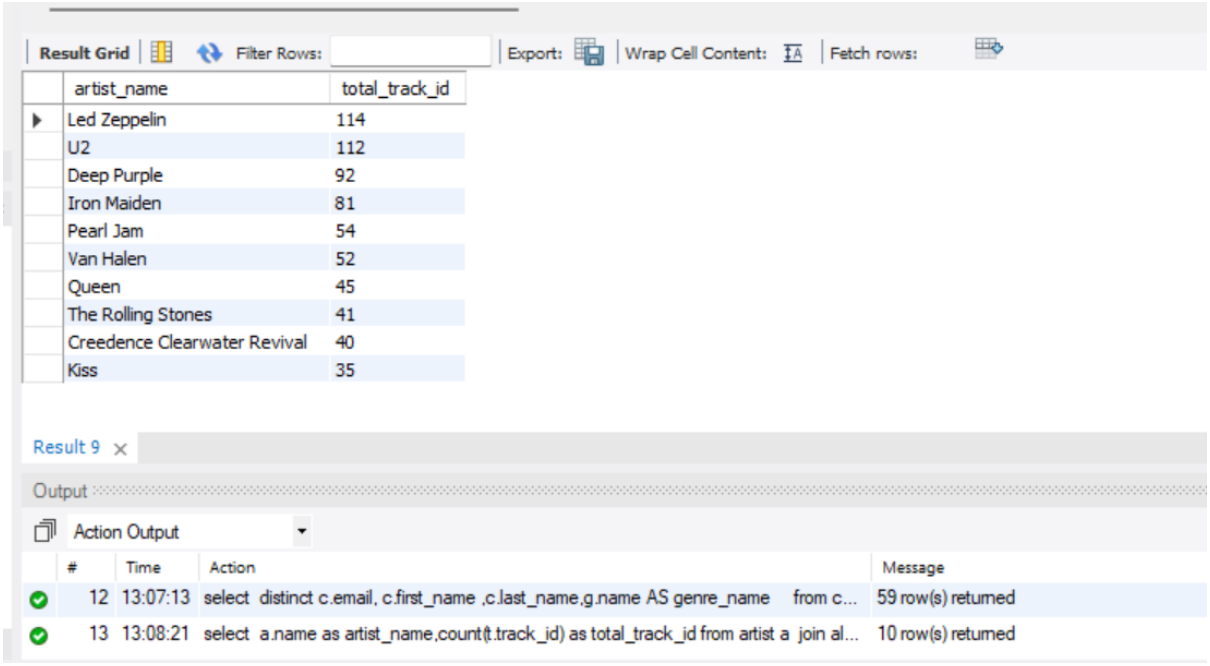
Output

Action Output

#	Time	Action	Message
11	13:06:37	select distinct c.email, c.first_name ,c.last_name,g.name AS genre_name from c...	59 row(s) returned
12	13:07:13	select distinct c.email, c.first_name ,c.last_name,g.name AS genre_name from c...	59 row(s) returned

-- 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  a.name as artist_name,count(t.track_id) as total_track_id
from artist a
join album ab on a.artist_id=ab.artist_id
join track t on t.album_id=ab.album_id
join genre g on t.genre_id= g.genre_id
where g.name='Rock'
group by a.name
order by total_track_id desc limit 10;
```



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

artist_name	total_track_id
Led Zeppelin	114
U2	112
Deep Purple	92
Iron Maiden	81
Pearl Jam	54
Van Halen	52
Queen	45
The Rolling Stones	41
Creedence Clearwater Revival	40
Kiss	35

Result 9

Output

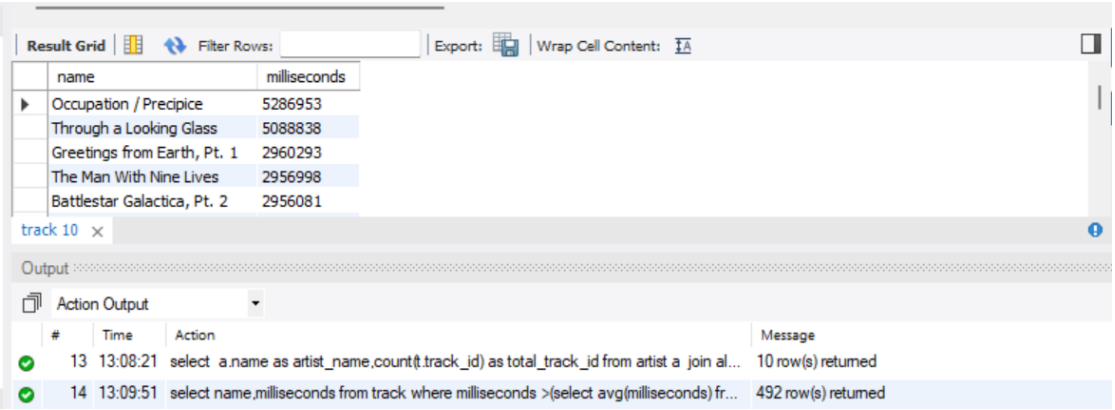
Action Output

#	Time	Action	Message
12	13:07:13	select distinct c.email, c.first_name ,c.last_name,g.name AS genre_name from c...	59 row(s) returned
13	13:08:21	select a.name as artist_name,count(t.track_id) as total_track_id from artist a join al...	10 row(s) returned

-- Q.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

-- 393733.3383

```
select name,milliseconds
from track
where milliseconds >(select avg(milliseconds) from track)
order by milliseconds desc;
```



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

name	milliseconds
Occupation / Precipice	5286953
Through a Looking Glass	5088838
Greetings from Earth, Pt. 1	2960293
The Man With Nine Lives	2956998
Battlestar Galactica, Pt. 2	2956081

track 10

Output

Action Output

#	Time	Action	Message
13	13:08:21	select a.name as artist_name,count(t.track_id) as total_track_id from artist a join al...	10 row(s) returned
14	13:09:51	select name,milliseconds from track where milliseconds >(select avg(milliseconds) fr...	492 row(s) returned