

SQL Project Answer Sheet

This answer sheet is for you to enter your results for SQL Project. Please rename this file as: **firstName.lastName-SQLProject.docx**.

In the appropriate text boxes below, you should include the following for each of the queries in order to receive full points. Note that there may be more spaces for queries than the project you are working on as this answer sheet is used for multiple projects. Each project may have differing numbers of queries so only fill out as many as specified in the project instructions:

1. **Query statement used.** Query logic should be copied and pasted from your MySQL view in text form. If you are having trouble copying and pasting, look for a pop-up within VDI asking you to enable this feature.
2. **Screenshots of query results.** Your query results *must* include the following within each screenshot:
 - Query Logic/ Statements
 - Result Grid
 - If more rows are returned than possible to fit in one screenshot, show at least the first five rows.
 - Action Output (at the bottom)
 - Action output must correspond to the correct query.
 - Schema including your MSU netID (on left under Navigator)

Query 1: SQL Statement Used (TEXT ONLY)

```
select
  artist.Name as "Artist Name",
  count(track.TrackId) as "Number of Tracks",
  sum(track.UnitPrice) as "Total cost"
from
  musicsales.track
inner join
  musicsales.album
on
  track.AlbumID = album.AlbumID
inner join
  musicsales.artist
on
  album.ArtistId = artist.ArtistId
group by
  artist.ArtistId
```

order by

sum(track.UnitPrice) desc;

Query 1: Screenshot of the Query Results

The screenshot shows a SQL IDE interface with a query editor and a results grid. The query editor contains the following SQL code:

```
1 • select
2     artist.Name as "Artist Name",
3     count(track.TrackId) as "Number of Tracks",
4     sum(track.UnitPrice) as "Total cost"
5 from
6     musicsales.track
7 inner join
8     musicsales.album
9 on
```

The results grid displays the following data:

Artist Name	Number of Tracks	Total cost
Iron Maiden	213	210.87
Lost	92	183.08
U2	135	133.65
Led Zeppelin	114	112.86
Metallica	112	110.88
The Office	53	105.47
Deep Purple	92	91.08
Pearl Jam	67	66.33

The output pane shows the following message:

```
# Time Action Message
1 00:14:35 select artist.Name as "Artist Name", count(track.TrackId) as "Number of Tracks... 204 row(s) returned
```

Query 2: SQL Statement Used (TEXT ONLY)

```
select
    artist.Name as "Artist Name",
    sum(invoiceline.Quantity) as "Total tracks sold"
from
    musicsales.track
inner join
    musicsales.album
on
    track.AlbumID = album.AlbumID
inner join
    musicsales.artist
on
    album.ArtistId = artist.ArtistId
inner join
    musicsales.invoiceline
on
    track.TrackId = invoiceline.TrackId
group by
    artist.ArtistId
having
    sum(invoiceline.Quantity) >= 20
order by
    sum(invoiceline.Quantity) desc;
```

Query 2: Screenshot of the Query Results

project_q1

project_q2*

project_q3

project_q4

project_q5

Limit to 1000 rows

1

•

select

2

artist.Name as "Artist Name",

3

sum(invoiceline.Quantity) as "Total tracks sold"

4

from

5

musicsales.track

6

inner join

7

musicsales.album

8

on

9

track.AlbumID = album.AlbumID

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Artist Name	Total tracks sold
▶	Iron Maiden	140
	U2	107
	Metallica	91
	Led Zeppelin	87
	Os Paralamas Do Sucesso	45
	Deep Purple	44
	Faith No More	42
	Lost	41

Result 11 x

Output

Action Output

#	Time	Action	Message
✓ 72	20:26:49	select customer.CustomerId, CONCAT(customer.FirstName, " ", cust...	59 row(s) returned
✓ 73	20:33:35	select artist.Name as "Artist Name", count(track.TrackId) as "Nu...	165 row(s) returned
✓ 74	20:35:05	select artist.Name as "Artist Name", sum(invoiceline.Quantity) as "T...	33 row(s) returned

Navigation

SCHEMAS

Filter objects

musicsales

pixysystems

sakila

teleworks

tulpulea

world

Administration

Schemas

Information

Table: invoice

Columns:

InvoiceId

int(11) PK

CustomerId

int(11)

InvoiceDate

datetime

BillingAddress

varchar(70)

BillingCity

varchar(40)

BillingState

varchar(40)

BillingCountry

varchar(40)

BillingPostalCode

varchar(10)


Object Info

Session

Query 3: SQL Statement Used (TEXT ONLY)

```
select
    customer.CustomerId,
    CONCAT(customer.FirstName, " ", customer.LastName) as "Full Name",
    sum(invoiceline.Quantity*invoiceline.UnitPrice) as "Total Purchases",
    CONCAT_WS(Char(10),customer.Address,customer.City,customer.State,customer.Country,customer.PostalCode) as "Customer Address"
from
    musicsales.customer
inner join
    musicsales.invoice
on
    customer.CustomerId = invoice.CustomerId
inner join
    musicsales.invoiceline
on
    invoice.InvoiceId = invoiceline.InvoiceId
group by
    customer.CustomerId
having
    sum(invoiceline.Quantity*invoiceline.UnitPrice) >= 35
order by
    sum(invoiceline.Quantity*invoiceline.UnitPrice) desc;
```

Query 3: Screenshot of the Query Results



Query 4: SQL Statement Used (TEXT ONLY)

```
select
  artist.Name as "Artist Name",
  album.Title as "Album Title",
  track.Name as "Track Name",
  sum(invoiceline.Quantity) as "Number of Tracks"
from
  musicsales.track
inner join
  musicsales.album
on
  track.AlbumID = album.AlbumID
inner join
  musicsales.artist
on
  album.ArtistId = artist.ArtistId
left join
  musicsales.invoiceline
on
  track.TrackId = invoiceline.TrackId
group by
  track.TrackId
having
  sum(invoiceline.Quantity) is null;
```

Query 4: Screenshot of the Query Results

Navigator: project_q1 project_q2 project_q3 project_q4 project_q5

SCHEMAS

Filter objects

- adventureworks
- classicmodels
- musicsales
- pixsystems
- sakila
- teleworks
- tulpulea
- world

Administration Schemas Information

No object selected

Object Info Session

```

1 • select
2     artist.Name as "Artist Name",
3     album.Title as "Album Title",
4     track.Name as "Track Name",
5     sum(invoiceline.Quantity) as "Number of Tracks"
6 from
7     musicsales.track
8 inner join
9     musicsales.album
  
```

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

Artist Name	Album Title	Track Name	Number of Tracks
AC/DC	For Those About To Rock We Salute You	Let's Get It Up	NULL
AC/DC	For Those About To Rock We Salute You	C.O.D.	NULL
AC/DC	Let There Be Rock	Let There Be Rock	NULL
AC/DC	Let There Be Rock	Bad Boy Boogie	NULL
AC/DC	Let There Be Rock	Whole Lotta Rosie	NULL
Aerosmith	Big Ones	Walk On Water	NULL
Aerosmith	Big Ones	Dude (Looks Like A Lady)	NULL
Aerosmith	Big Ones	Cruisin'	NULL

Result 2 x

Output

Action Output

#	Time	Action	Message
4	00:26:25	select artist.Name as "Artist Name", album.Title as "Album Title", track.Na...	1000 row(s) returned
5	00:26:37	select CONCAT(customer.FirstName," ", customer.LastName) as "Full Name", C...	1 row(s) returned
6	00:28:49	select artist.Name as "Artist Name", album.Title as "Album Title", track.Na...	1519 row(s) returned

Query 5: SQL Statement Used (TEXT ONLY)

```

select
    CONCAT(customer.FirstName," ", customer.LastName) as "Full Name",
    CONCAT_WS(Char(10),invoice.BillingAddress,invoice.BillingCity,invoice.BillingState,invoice.BillingCountry,invoice.BillingPostalCode) as "Full Invoice Address",
    CONCAT_WS(Char(10),customer.Address,customer.City,customer.State,customer.Country,customer.PostalCode) as "Address In File"
from
    musicsales.customer
inner join
  
```



```
    musicsales.invoice
on
    customer.CustomerId = invoice.CustomerId
where
    customer.PostalCode <> invoice.BillingPostalCode;
```

Query 5: Screenshot of the Query Results

Navigation

SCHEMAS

Filter objects

musicsales

pixsystems

sakila

teleworks

tulpulea

world

Administration

Schemas

Information

Table: invoice

Columns:

InvoiceId

int(11) PK

CustomerId

int(11)

InvoiceDate

datetime

BillingAddress

varchar(70)

BillingCity

varchar(40)

BillingState

varchar(40)

BillingCountry

varchar(40)

BillingPostalCode

varchar(10)

project_q1

project_q2*

project_q3

project_q4

project_q5 x

Limit to 1000 rows

Star

Search

Refresh

1

•

select

2

CONCAT(customer.FirstName," ", customer.LastName) as "Full Name",

3

CONCAT_WS(Char(10),invoice.BillingAddress,invoice.BillingCity,invoice.B

4

CONCAT_WS(Char(10),customer.Address,customer.City,customer.State,custom

5

from

6

musicsales.customer

7

inner join

8

musicsales.invoice

9

on

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Full Name	Full Invoice Address	Address In File
▶	Wyatt Girard	123 You Found The One Blvd...	9, Place Louis Bartho...

Result 12 x

Output

Action Output

#	Time	Action	Message
✓ 75	20:36:09	select customer.CustomerId, CONCAT(customer.FirstName," ", cust...	59 row(s) returned
✓ 76	20:37:00	select artist.Name as "Artist Name", album.Title as "Album Title", ...	1000 row(s) returned
✓ 77	20:37:39	select CONCAT(customer.FirstName," ", customer.LastName) as "Full ...	1 row(s) returned

Object Info

Session