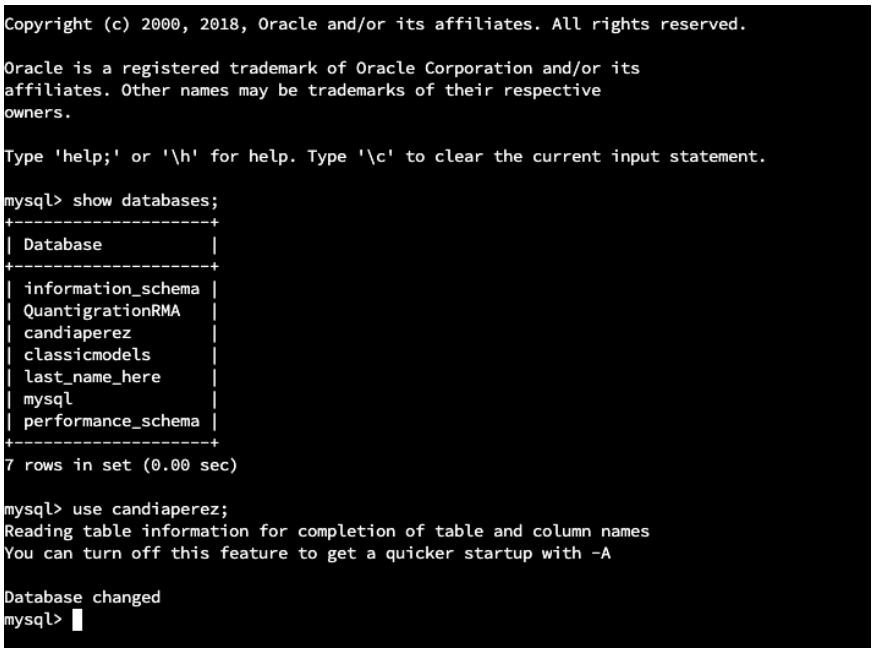
DAD 220 Module Four Major Activity Database Documentation Template

Complete these steps as you work through the directions for this activity. Replace the bracketed text with your screenshots and brief explanations of the work they capture. Each screenshot and its explanation should be sized to approximately one quarter of the page, with the description written below the screenshot. Follow these rules for each of the prompts and questions below. Review the example document for assistance.



(Screenshot of my databases as per email)

Follow Steps 1 through 4 from the Module Three Major Activity *only* to generate tables for this assignment.

1. **Import** the **data** from each file **into tables.**
   A. Use the import utility of your database program to load the data from each file into the table of the same name. You'll perform this step three times, once for each table.
   B. Provide the SQL commands you ran against MySQL to complete this successfully in your answer.

[Insert screenshot and brief explanation here.]

```
mysql> use QuantigrationRMA;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> load data infile '/home/codio/workspace/customers.csv' into table Customers FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
Query OK, 37994 rows affected, 35898 warnings (0.34 sec)
Records: 37994  Deleted: 0  Skipped: 0  Warnings: 35898
```

```
mysql> LOAD DATA INFILE '/home/codio/workspace/orders.csv' INTO TABLE Orders FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY
'\n';
Query OK, 37994 rows affected, 4173 warnings (0.60 sec)
Records: 37994  Deleted: 0  Skipped: 0  Warnings: 4173

mysql> LOAD DATA INFILE '/home/codio/workspace/rma.csv' INTO TABLE RMA FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';
Query OK, 38162 rows affected (0.44 sec)
Records: 38162  Deleted: 0  Skipped: 0  Warnings: 0

mysql>
```

Here, I imported the data from the three files into the tables. I had trouble with importing to the database Customers, because I realized that the columns were not ordered in the same way as the imported information. Once I corrected the order of columns everything worked correctly.

2. **Write basic queries** against imported tables to organize and analyze targeted data**.**
   For each query, include a screenshot of the query and its output. You should also include a 1- to 3-sentence description of the output.
   B. Write an SQL query that returns the count of orders for customers located only in the city of Framingham, Massachusetts.
      i. How many records were returned?

```
mysql> select * from Customers inner join Orders on Customers.CustomerID = Orders.CustomerID where City = 'Framingham' and S
tate = 'Massachusetts';
+------------+-----------+------------+----------------------+------------+---------------+---------+------------+---------+
------------+------------+-----------------------------------------------------+
| CustomerID | FirstName | LastName   | Street               | City       | State         | ZipCode | Telephone  | OrderID |
 CustomerID | SKU        | Description                                         |
+------------+-----------+------------+----------------------+------------+---------------+---------+------------+---------+
------------+------------+-----------------------------------------------------+
|      74086 | Donna     | Hanson     | 977 West White Milto | Framingham | Massachusetts |    1701 | 2147483647 |   83765 |
           |ENT-24-10F | Enterprise Switch 10GigE SFP+ 24 Port
```

```
|      99690 | Darius    | Harris     | 234 Cowley Road      | Framingham | Massachusetts |    1701 | 676        |   63835 |
           |ENT-24-10F | Enterprise Switch 10GigE SFP+ 24 Port
|      99896 | Nicole    | Berg       | 31 East Second Drive | Framingham | Massachusetts |    1701 | 2147483647 |   71483 |
           |ENT-24-10F | Enterprise Switch 10GigE SFP+ 24 Port
+------------+-----------+------------+----------------------+------------+---------------+---------+------------+---------+
------------+------------+-----------------------------------------------------+
505 rows in set (0.03 sec)

mysql>
```

There were 505 records returned. I used an inner join statement to connect the customers and their orders from the specified area.

C. Write an SQL query to select all of the customers located in the state of Massachusetts.
   i. Use a WHERE clause to limit the number of records in the Customers table to only those that are located in Massachusetts.
   ii. Record an answer to the following question: How many records were returned?

```
mysql> select * from Customers where State = 'Massachusetts';
+------------+-----------+------------+----------------------+----------------+---------------+---------+------------+
| CustomerID | FirstName | LastName   | Street               | City           | State         | ZipCode | Telephone  |
+------------+-----------+------------+----------------------+----------------+---------------+---------+------------+
|      74086 | Donna     | Hanson     | 977 West White Milto | Framingham     | Massachusetts |    1701 | 2147483647 |
|      74091 | Micheal   | Webster    | 75 Second Freeway    | Raleigh        | Massachusetts |   34903 | 449        |
|      74101 | Harvey    | Cisneros   | 234 North Rocky Fabi | Framingham     | Massachusetts |    1701 | 555        |
|      74107 | Irma      | Kemp       | 334 Rocky Milton Bou | Memphis        | Massachusetts |   16289 | 143        |
|      74186 | Todd      | Bishop     | 93 Hague Avenue      | Framingham     | Massachusetts |    1701 | 774        |
```

```
|      99616 | Angelina  | Trujillo   | 90 Rocky Cowley Way  | Shreveport     | Massachusetts |   37291 | 331        |
|      99676 | Ginger    | Hodge      | 28 Rocky Nobel Way   | Framingham     | Massachusetts |    1701 | 212        |
|      99690 | Darius    | Harris     | 234 Cowley Road      | Framingham     | Massachusetts |    1701 | 676        |
|      99896 | Nicole    | Berg       | 31 East Second Drive | Framingham     | Massachusetts |    1701 | 2147483647 |
|      99942 | Mandi     | Lam        | 59 Fabien Road       | Wichita        | Massachusetts |   47379 | 379884     |
+------------+-----------+------------+----------------------+----------------+---------------+---------+------------+
982 rows in set (0.02 sec)

mysql>
```

Here, There were 982 rows returned. I used a select statement and specified the state using “where”.

D. Write an SQL query to insert four new records into the Orders and Customers tables using the following data:

i. Customers Table

CustomerID	FirstName	Lastname	StreetAddress	City	State	ZipCode	Telephone
100004	Luke	Skywalker	17 Maiden Lane	New York	NY	10222	212-555-1234
100005	Winston	Smith	128 Sycamore Street	Greensboro	NC	27401	919-555-6623
100006	MaryAnne	Jenkins	2 Coconut Way	Jupiter	FL	33458	321-555-8907
100007	Janet	Williams	58 Redondo Beach Blvd	Torrence	CA	90501	310-555-5678

```
mysql> insert into Customers
    -> Values (100004, 'Luke', 'Skywalker', '17 Maiden Lane', 'New York', 'NY', 10222, '212-555-1234'),
    -> (100005, 'Winston', 'Smith', '128 Sycamore Street', 'Greensboro', 'NC', 27401, '919-555-6623'),
    -> (100006, 'MaryAnne', 'Jenkins', '2 Coconut Way', 'Jupiter', 'FL', 33458, '321-555-8907'),
    -> (100007, 'Janet', 'Williams', '58 Redondo Beach Blvd', 'Torrence', 'CA', 90501, '310-555-5678');
Query OK, 4 rows affected (0.03 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql>
```

Here I have added in the customers to the Customers Table using an insert into statement.

ii. Orders Table

OrderID	CustomerID	SKU	Description
1204305	100004	ADV-24-10C	Advanced Switch 10GigE Copper 24 port
1204306	100005	ADV-48-10F	Advanced Switch 10 GigE Copper/Fiber 44 port copper 4 port fiber

OrderID	CustomerID	SKU	Description
1204307	100006	ENT-24-10F	Enterprise Switch 10GigE SFP+ 24 Port
1204308	100007	ENT-48-10F	Enterprise Switch 10GigE SFP+ 48 port

```
mysql> insert into Orders
    -> Values (1204305, 100004, 'ADV-24-10C', 'Advanced Switch 10GigE Copper 24 port'),
    -> (1204306, 100005, 'ADV-48-10F', 'Advanced Switch 10 GigE Copper/Fiber 44 port copper 4 port fiber'),
    -> (1204307, 100006, 'ENT-24-10F', 'Enterprise Switch 10GigE SFP+ 24 Port'),
    -> (1204308, 100007, 'ENT-48-10F', 'Enterprise Switch 10GigE SFP+ 48 port');
Query OK, 4 rows affected, 1 warning (0.03 sec)
Records: 4  Duplicates: 0  Warnings: 1
```

Here I have added in the new records for the Orders table. I used another Insert into statement and listed the records I wanted added in.

E. In the Customers table, perform a query to count all records where the city is Woonsocket, Rhode Island.
   i. How many records are in the customers table where the field “city” equals “Woonsocket”?

```
mysql> select count(*) from Customers where City = 'Woonsocket';
+----------+
| count(*) |
+----------+
|        7 |
+----------+
1 row in set (0.01 sec)
```

Here, I have used a select count(*) statement to retrieve the records for customers in Woonsocket. The total count is 7.

F. In the RMA database, update a customer’s records.

i. Write an SQL statement to select the current fields of **status** and **step** for the record in the **rma** table with an **orderid** value of "5175."
    1. What are the current status and step?

```
mysql> select Status, Step from RMA where OrderID = 5175;
+---------+---------------------------------+
| Status  | Step                            |
+---------+---------------------------------+
| Pending | Awaiting customer Documentation |
+---------+---------------------------------+
1 row in set (0.00 sec)

mysql>
```

The current status is Pending and the current Step is Awaiting customer Documentation.

ii. Write an SQL statement to update the **status** and **step** for the **OrderID**, 5175 to **status** = "Complete" and **step** = "Credit Customer Account."
    1. What are the updated **status** and **step** values for this record? Provide a screenshot of your work.

```
mysql> update RMA SET Status = 'Complete', Step = 'Credit Customer Account' WHERE OrderID = 5175;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select Status, Step from RMA where OrderID = 5175;
+----------+-------------------------+
| Status   | Step                    |
+----------+-------------------------+
| Complete | Credit Customer Account |
+----------+-------------------------+
1 row in set (0.00 sec)

mysql>
```

Here, I updated the Status and the Step using Update, and then used a select statement again to show that the new Status is Complete and the new Step is Credit Customer Account.

G. Delete RMA records.

i. Write an SQL statement to delete all records with a reason of “Rejected.”

1. How many records were deleted? Provide a screenshot of your work.

```
mysql> select count(*), Reason
    -> from RMA
    -> Group by Reason;
+----------+------------+
| count(*) | Reason     |
+----------+------------+
 |   12609 | Defective
 |   13116 | Incorrect
     |1841 | Other
  |    596 | Rejected
+----------+------------+
4 rows in set (0.03 sec)
```

```
mysql> delete from RMA
    -> where Reason LIKE '%Rejected%';
Query OK, 596 rows affected (0.05 sec)

mysql> select count(*), Reason from RMA Group by Reason;
+----------+------------+
| count(*) | Reason     |
+----------+------------+
 |   12609 | Defective
 |   13116 | Incorrect
     |1841 | Other
+----------+------------+
3 rows in set (0.02 sec)
```

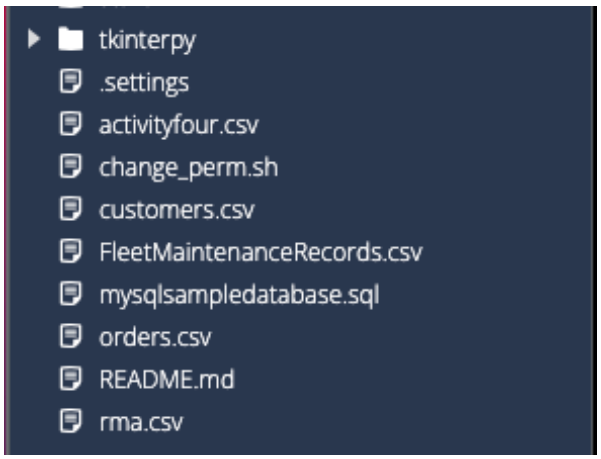
Here, I checked to see how many had the reason as Rejected, which was 596. I then deleted all of the Reasons that were “Rejected” and when I selected to see if they appeared afterwards, they were gone. This proves that they were all successfully deleted.

3. **Create an output file** of the required query results**.**

Write an SQL statement to list the contents of the orders table and send the output to a file with a .csv extension.

```
mysql> select *
    -> from Orders
    -> into outfile '/home/codio/workspace/activityfour.csv' FIELDS TERMINATED BY ',';
Query OK, 37998 rows affected (0.04 sec)

mysql>
```



Here I wrote a statement that would output the contents of the order table to a CSV file. It is reflected in the files once completed, so I know that it was successful.