



DAD 220 Database Documentation Template

Complete these steps as you work through the directions for Project One. 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 located in the Project One Supporting Materials for assistance.

Step One: Create a Database

1. Navigate to your online integrated development environment (IDE). List and record the SQL commands that you used to complete this step here:

The screenshot shows a web browser window with the URL `codio.com/vlandi/dad-220-sql-lab-environment/terminal/backend-1666903158679`. The browser tabs include 'Home', 'Mail - Landi, Victor - Outlook', 'Module Six - DAD-220-17376', 'Project One Guidelines and P...', 'DAD 220 Quantigration RMA', and 'Codio - DAD-220 SQL Lab E...'. The browser address bar shows the URL. Below the browser, there is a Codio IDE interface. The left sidebar shows a file tree for 'DAD-220 SQL Lab Environment' with files like `ssh`, `__pycache__`, `staruml`, `tkinter.py`, `settings`, `change_perm.sh`, `customers.csv`, `FleetMaintenanceRecords.csv`, `HRandIS-Employee.csv`, `mysqlsampledatabase.sql`, `orders.csv`, `Orders2.csv`, `README.md`, and `rma.csv`. The main terminal window shows the following text:
Welcome to Ubuntu 14.04.4 LTS (GNU/Linux 5.4.0-1088-aws x86_64)
+ Documentation: <https://help.ubuntu.com/>
+ Welcome to the Codio Terminal!
+ <https://docs.codio.com/develop/develop/ide/boxes/overview>
+ Your Codio Box domain is: mentalfire-academyshef.codio.io
+
Last login: Sun Nov 27 23:08:37 2022 from 192.168.10.93
codio@mentalfire-academyshef:~/workspace\$ mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 36
Server version: 5.5.62-0ubuntu0.14.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| LandI |
| QuantigrationRMA |
| classicmodels |
| mysql |
| performance_schema |
+-----+
6 rows in set (0.01 sec)

mysql>

[Insert screenshot and brief explanation here.]

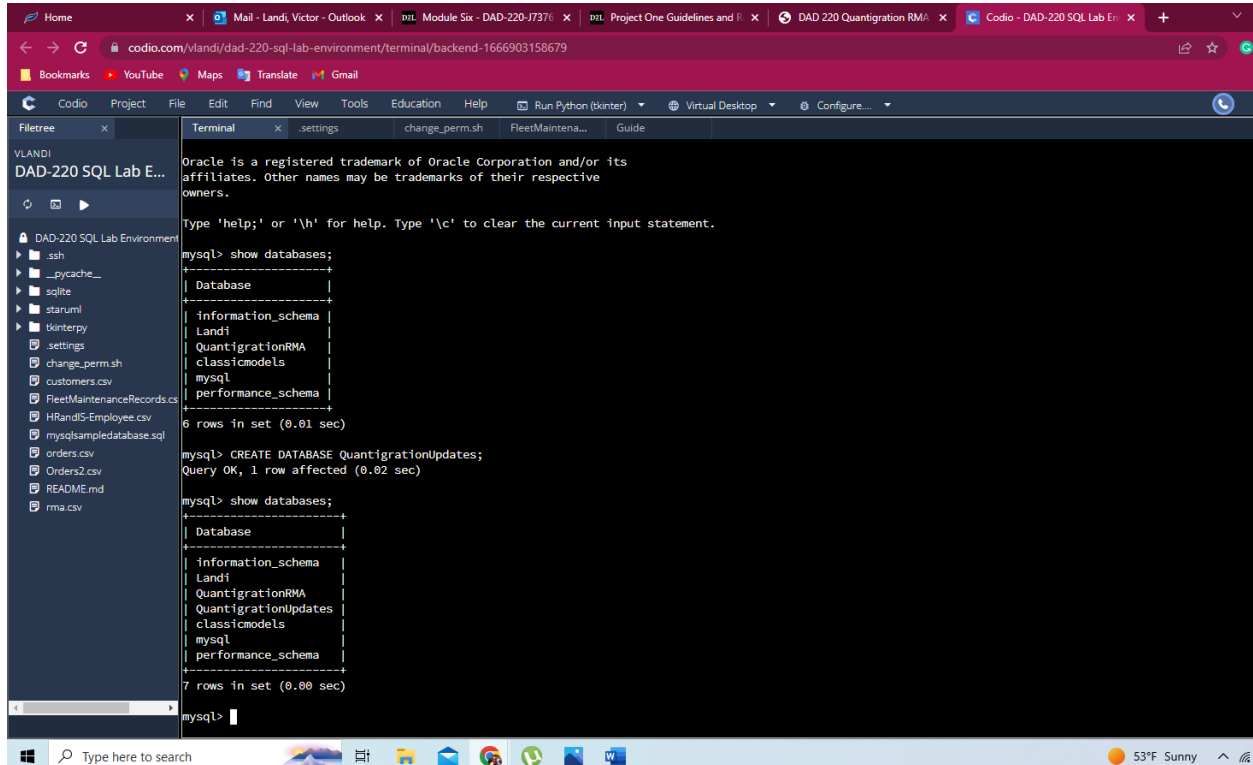
Code used was mysql to access MySQL

Prompt mysql> appears

I used the command show databases; just as an example of what already existed before I created anything for the Project.

2. Create a database schema called QuantigrationUpdates. List out the database name. Provide the SQL commands you ran against MySQL to successfully complete this in your answer:

[Insert screenshot and brief explanation here.]



```

mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| Landi                   |
| QuantigrationRMA        |
| classicmodels            |
| mysql                   |
| performance_schema      |
+-----+
6 rows in set (0.01 sec)

mysql> CREATE DATABASE QuantigrationUpdates;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| Landi                   |
| QuantigrationRMA        |
| QuantigrationUpdates     |
| classicmodels            |
| mysql                   |
| performance_schema      |
+-----+
7 rows in set (0.00 sec)

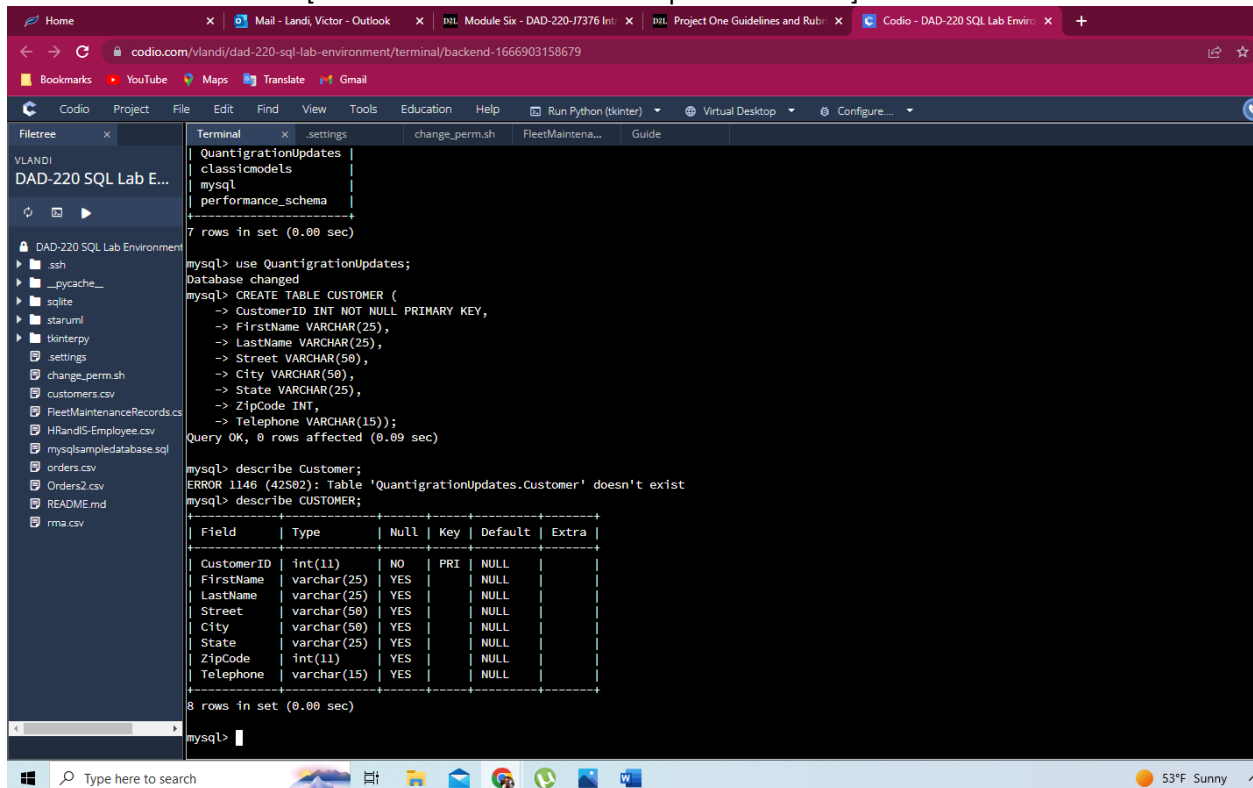
mysql>

```

Code used to create database was CREATE DATABASE QuantigrationsUpdate;
I then used the command show databases; to show that it was created successfully

3. Using the entity relationship diagram (ERD) as a reference, create the following tables with the appropriate attributes and keys:
 - a. A table named **Customers** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

[Insert screenshot and brief explanation here.]



```

mysql> use QuantigrationUpdates;
Database changed
mysql> CREATE TABLE CUSTOMER (
  -> CustomerID INT NOT NULL PRIMARY KEY,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode INT,
  -> Telephone VARCHAR(15));
Query OK, 0 rows affected (0.09 sec)

mysql> describe Customer;
ERROR 1146 (42S02): Table 'QuantigrationUpdates.Customer' doesn't exist
mysql> describe CUSTOMER;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int(11) | NO | PRI | NULL |  |
| FirstName | varchar(25) | YES |  | NULL |  |
| LastName | varchar(25) | YES |  | NULL |  |
| Street | varchar(50) | YES |  | NULL |  |
| City | varchar(50) | YES |  | NULL |  |
| State | varchar(25) | YES |  | NULL |  |
| ZipCode | int(11) | YES |  | NULL |  |
| Telephone | varchar(15) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

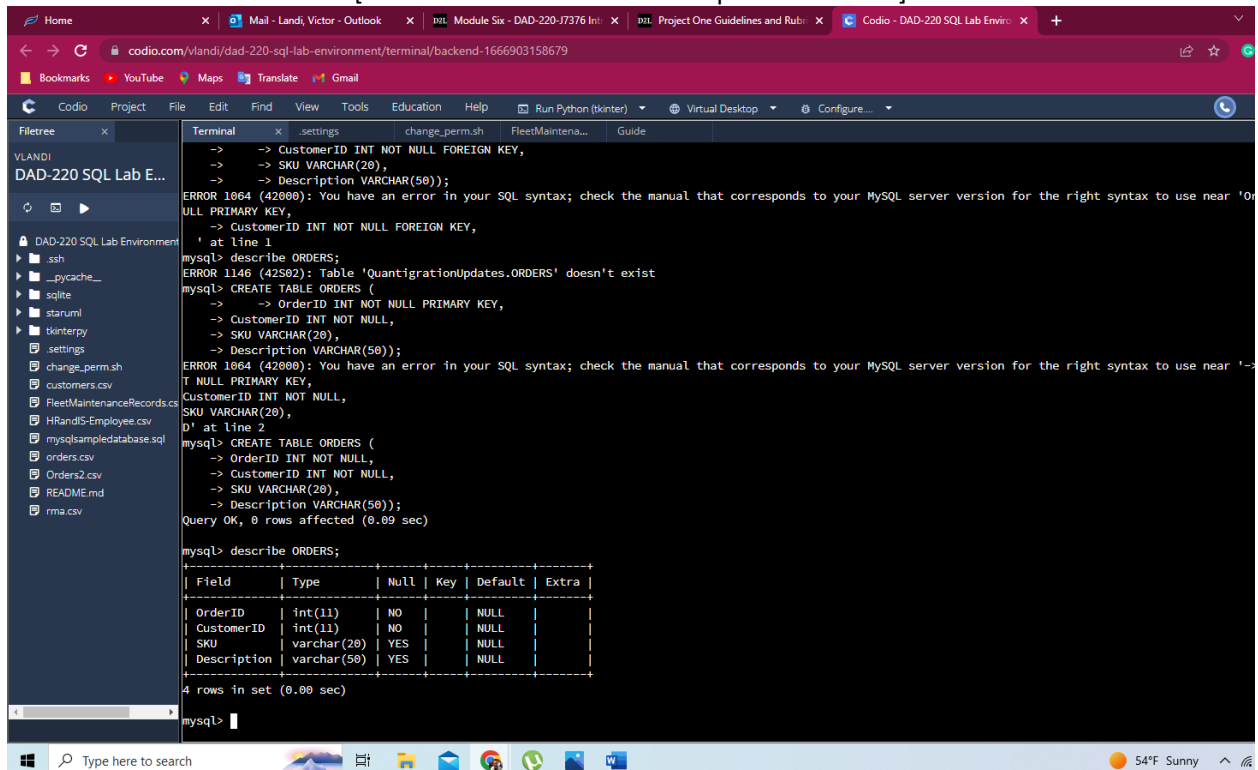
mysql>

```

Code used to create table named Customer was CREATE TABLE CUSTOMER then the eight fields were added that were shown in the RMA Diagram. Describe CUSTOMER was used to show the fields were added correctly

- b. A table named **Orders** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

[Insert screenshot and brief explanation here.]



```

--> --> CustomerID INT NOT NULL FOREIGN KEY,
--> --> SKU VARCHAR(20),
--> --> Description VARCHAR(50));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Or
ULL PRIMARY KEY,
--> CustomerID INT NOT NULL FOREIGN KEY,
--> ' at line 1
mysql> describe ORDERS;
ERROR 1146 (42S02): Table 'QuantigrationUpdates.ORDERS' doesn't exist
mysql> CREATE TABLE ORDERS (
--> --> OrderID INT NOT NULL PRIMARY KEY,
--> --> CustomerID INT NOT NULL,
--> --> SKU VARCHAR(20),
--> --> Description VARCHAR(50));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '->
T NULL PRIMARY KEY,
CustomerID INT NOT NULL,
SKU VARCHAR(20),
D' at line 2
mysql> CREATE TABLE ORDERS (
--> --> OrderID INT NOT NULL,
--> --> CustomerID INT NOT NULL,
--> --> SKU VARCHAR(20),
--> --> Description VARCHAR(50));
Query OK, 0 rows affected (0.09 sec)

mysql> describe ORDERS;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key  | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| OrderID    | int(11)   | NO   | PRIMARY | NULL    |       |
| CustomerID | int(11)   | NO   |       | NULL    |       |
| SKU        | varchar(20) | YES  |       | NULL    |       |
| Description | varchar(50) | YES  |       | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>

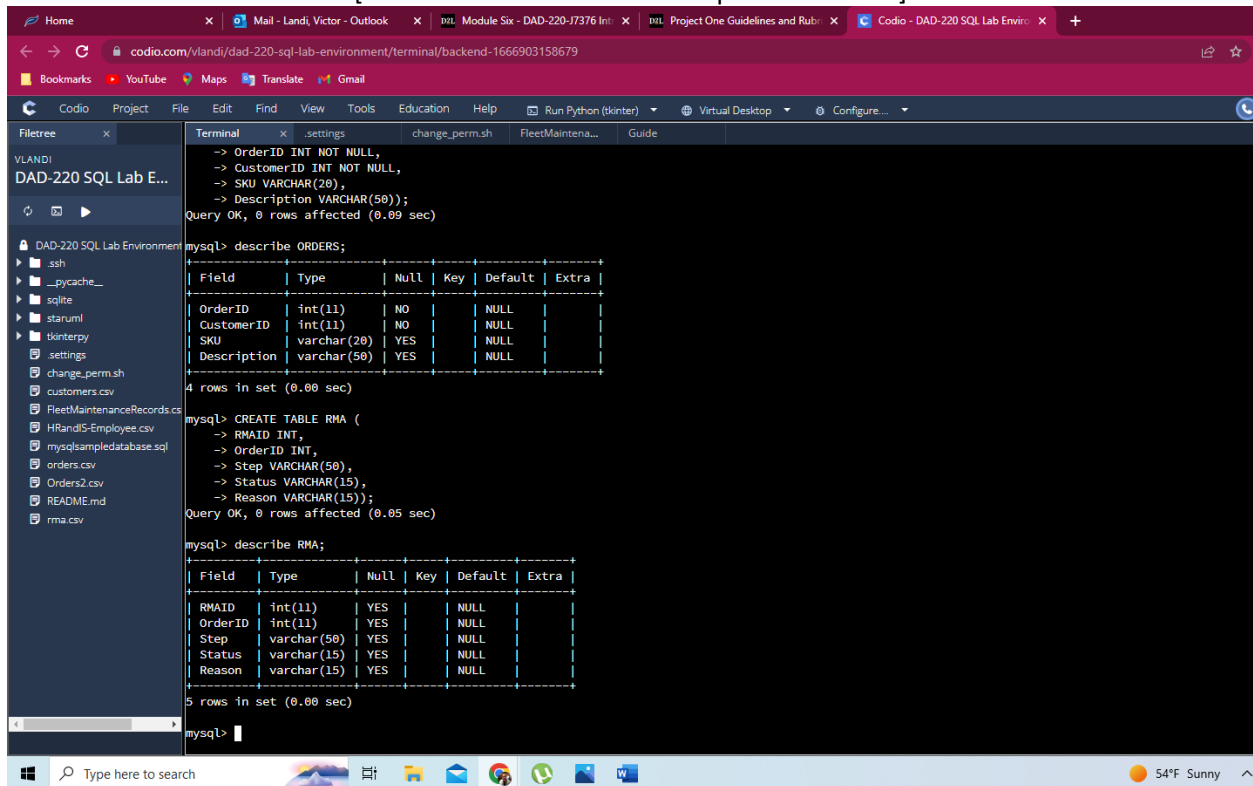
```

Used code CREATE TABLE ORDERS to create a table called Orders. Added the fields shown in the RMA diagram

I didn't make a primary key and link a foreign key to the primary key I made in Customer table, I kept getting an error message

- c. A table named **RMA** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

[Insert screenshot and brief explanation here.]



```

--> OrderID INT NOT NULL,
--> CustomerID INT NOT NULL,
--> SKU VARCHAR(20),
--> Description VARCHAR(50));
Query OK, 0 rows affected (0.09 sec)

mysql> describe ORDERS;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| OrderID | int(11) | NO | | NULL | |
| CustomerID | int(11) | NO | | NULL | |
| SKU | varchar(20) | YES | | NULL | |
| Description | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> CREATE TABLE RMA (
--> RMAID INT,
--> OrderID INT,
--> Step VARCHAR(50),
--> Status VARCHAR(15),
--> Reason VARCHAR(15));
Query OK, 0 rows affected (0.05 sec)

mysql> describe RMA;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| RMAID | int(11) | YES | | NULL | |
| OrderID | int(11) | YES | | NULL | |
| Step | varchar(50) | YES | | NULL | |
| Status | varchar(15) | YES | | NULL | |
| Reason | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
  
```

Created RMA table with command CREATE TABLE RMA

Added fields shown in RMA diagram,

I was not able to make OrderID have foreign key to link to primary key in Orders table since I could not get the system to make OrderID in ORDERS table a primary key.

Step Two: Load and Query the Data

1. Import the data from each file into tables.

- Use the QuantigrationUpdates database, the three tables you created, and the three CSV files preloaded into Codio.
- Use the import utility of your database program to load the data from each file into the table of the same name. You will perform this step three times, once for each table.



```
mysql> LOAD DATA INFILE '/home/codio/workspace/customers.csv'
-> INTO TABLE CUSTOMER
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\r\n';
Query OK, 37994 rows affected (0.44 sec)
Records: 37994 Deleted: 0 Skipped: 0 Warnings: 0

mysql> LOAD DATA INFILE '/home/codio/workspace/orders.csv'
-> INTO TABLE Orders
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\r\n';
ERROR 1146 (42S02): Table 'QuantigrationUpdates.Orders' doesn't exist
mysql> LOAD DATA INFILE '/home/codio/workspace/orders.csv'
-> INTO TABLE ORDERS
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\r\n';
Query OK, 37994 rows affected (0.30 sec)
Records: 37994 Deleted: 0 Skipped: 0 Warnings: 0

mysql> LOAD DATA INFILE '/home/codio/workspace/rma.csv'
-> INTO TABLE RMA
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\r\n';
Query OK, 38162 rows affected (0.39 sec)
Records: 38162 Deleted: 0 Skipped: 0 Warnings: 0

mysql>
```

Field	Type	Null	Key	Default	Extra
RMAID	int(11)	YES		NULL	
OrderID	int(11)	YES		NULL	
Step	varchar(50)	YES		NULL	
Status	varchar(15)	YES		NULL	
Reason	varchar(15)	YES		NULL	

2. **Write basic queries against imported tables to organize and analyze targeted data.** For each query, replace the bracketed text with a screenshot of the query and its output. You should also include a 1- to 3-sentence description of the output.
- 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?

[Insert screenshot and brief explanation here.]



```
mysql> describe Customer;
ERROR 1146 (42S02): Table 'QuantigrationUpdates.Customer' doesn't exist
mysql> describe CUSTOMER;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int(11) | NO | PRI | NULL | |
| FirstName | varchar(25) | YES | | NULL | |
| LastName | varchar(25) | YES | | NULL | |
| Street | varchar(50) | YES | | NULL | |
| City | varchar(50) | YES | | NULL | |
| State | varchar(25) | YES | | NULL | |
| ZipCode | int(11) | YES | | NULL | |
| Telephone | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> describe ORDERS;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| OrderID | int(11) | NO | | NULL | |
| CustomerID | int(11) | NO | | NULL | |
| SKU | varchar(20) | YES | | NULL | |
| Description | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> SELECT COUNT(*) FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CustomerID=ORDERS.CustomerID WHERE UPPER (CUSTOMER.City)='FRAMINGHAM' AND UPPER (CUSTOMER.State)='MA';
+-----+
| COUNT(*) |
+-----+
| 505 |
+-----+
1 row in set (0.16 sec)

mysql>
```

505 records were returned for the city of Framingham in the state of Ma.
An inner join was used to search for the total number of orders for customers in the city of Framingham Massachusetts.

- 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 who are located in Massachusetts.
 - ii. Record an answer to the following question: How many records were returned?



[Insert screenshot and brief explanation here.]

```
mysql> describe CUSTOMER;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| LastName   | varchar(25)   | YES  |     | NULL    |       |
| Street     | varchar(50)   | YES  |     | NULL    |       |
| City       | varchar(50)   | YES  |     | NULL    |       |
| State      | varchar(25)   | YES  |     | NULL    |       |
| ZipCode    | int(11)       | YES  |     | NULL    |       |
| Telephone  | varchar(15)   | YES  |     | NULL    |       |
+-----+
8 rows in set (0.00 sec)

mysql> describe ORDERS;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| OrderID    | int(11)       | NO   |     | NULL    |       |
| CustomerID | int(11)       | NO   |     | NULL    |       |
| SKU        | varchar(20)   | YES  |     | NULL    |       |
| Description | varchar(50)   | YES  |     | NULL    |       |
+-----+
4 rows in set (0.01 sec)

mysql> SELECT COUNT(*) FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CustomerID=ORDERS.CustomerID WHERE UPPER (CUSTOMER.City)="FRAMINGHAM" AND UPPER (CUSTOMER.State)="MASSACHUSETTS";
+-----+
| COUNT(*) |
+-----+
|      505 |
+-----+
1 row in set (0.16 sec)

mysql> SELECT COUNT(*) FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CustomerID=ORDERS.CustomerID WHERE UPPER (CUSTOMER.State) = 'MASSACHUSETTS';
+-----+
| COUNT(*) |
+-----+
|      982 |
+-----+
1 row in set (0.34 sec)

mysql>
```

Using the code to join customer and orders for only the state of Massachusetts, 982 records were found.

- Write a SQL query to insert four new records into the Orders and Customers tables using the following data:

Customers Table

CustomerID	FirstName	LastName	StreetAddress	City	State	ZipCode	Telephone
100004	Luke	Skywalker	15 Maiden Lane	New York	NY	10222	212-555-1234
100005	Winston	Smith	123 Sycamore Street	Greensboro	NC	27401	919-555-6623
100006	MaryAnne	Jenkins	1 Coconut Way	Jupiter	FL	33458	321-555-8907
100007	Janet	Williams	55 Redondo Beach Blvd	Torrence	CA	90501	310-555-5678



[Insert screenshot and brief explanation here.]

```
mysql> SELECT COUNT(*) FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CustomerID=ORDERS.CustomerID WHERE UPPER (CUSTOMER.City)="FRAMINGHAM" AND UPPER (CUSTOMER.State)="MASSACHUSETTS";
+-----+
| COUNT(*) |
+-----+
|      505 |
+-----+
1 row in set (0.16 sec)

mysql> SELECT COUNT(*) FROM CUSTOMER INNER JOIN ORDERS ON CUSTOMER.CustomerID=ORDERS.CustomerID WHERE UPPER (CUSTOMER.State) = 'MASSACHUSETTS';
+-----+
| COUNT(*) |
+-----+
|      982 |
+-----+
1 row in set (0.34 sec)

mysql> INSERT INTO CUSTOMER 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 (0.06 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from CUSTOMER WHERE CustomerID in (100004, 100005, 100006, 100007);
+-----+
| CustomerID | FirstName | LastName | Street          | 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 |
+-----+
4 rows in set (0.00 sec)

mysql>
```

The four customer values were added, each of the fields were added on a separate line when the commands were added, separated by (,), once added, the four new entries were retrieved by a search by the customerID s 100004, 100005, 100006, and 100007.

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



[Insert screenshot and brief explanation here.]

```
mysql> INSERT INTO Orders VALUES
-> (1204305,100004,'ADV-24-10C','Advanced Switch 10GigE Copper 24 port');
ERROR 1146 (42S02): Table 'QuantigrationUpdates.Orders' doesn't exist
mysql> INSERT INTO Orders VALUES
-> (1204305,100004,'ADV-24-10C','Advanced Switch 10GigE Copper 24 port');
Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO Orders VALUES
-> (1204306,100005,'ADV-48-10F','Advanced Switch 10 GigE Copper/Fiber 44 port copper 4 port fiber');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1204306,100005,'ADV-48-10F','Advanced Switch 10 GigE Copper/Fiber 44 port co' at line 2
mysql> INSERT INTO Orders VALUES
-> (1204306,100005,'ADV-48-10F','Advanced Switch 10 GigE Copper/Fiber 44 port copper 4 port fiber');
Query OK, 1 row affected, 1 warning (0.05 sec)

mysql> INSERT INTO Orders VALUES
-> (1207,100006,'ENT-48-10F','Enterprise Switch 10GigE SFP+24 Port');
Query OK, 1 row affected (0.03 sec)

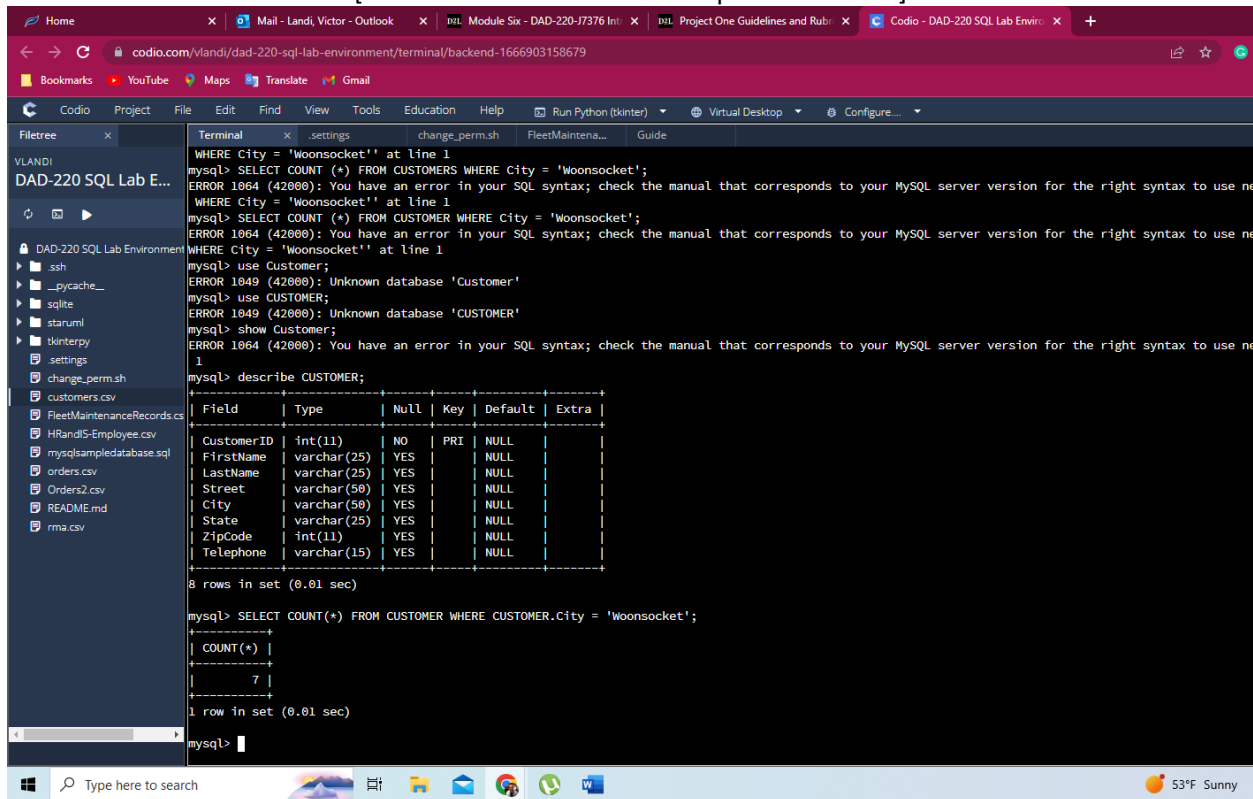
mysql> INSERT INTO Orders VALUES
-> (1204308,100007,'ENT-48-10F','Enterprise Switch 10GigE SFP+ 48 Port');
Query OK, 1 row affected (0.02 sec)

mysql> select * FROM Orders WHERE OrderID IN (1204305,1204306,1207,1204308);
ERROR 1054 (42S22): Unknown column 'OrderID' in 'where clause'
mysql> select * FROM Orders WHERE OrderID IN (1204305,1204306,1207,1204308);
+-----+-----+-----+-----+
| OrderID | CustomerID | SKU | Description |
+-----+-----+-----+-----+
| 1207 | 71953 | ENT-24-10F | Enterprise Switch 10GigE SFP+ 24 Port |
| 1204305 | 100004 | ADV-24-10C | Advanced Switch 10GigE Copper 24 port |
| 1204306 | 100005 | ADV-48-10F | Advanced Switch 10 GigE copper/Fiber 44 port coppe |
| 1207 | 100006 | ENT-48-10F | Enterprise Switch 10GigE SFP+24 Port |
| 1204308 | 100007 | ENT-48-10F | Enterprise Switch 10GigE SFP+ 48 Port |
+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```

Values added to Orders Table, instead of adding the OrderID as 1204307, I added it as 1207, I could not change it, so I searched for the four new entries I added.1204305, 1204306, 1207 and 1204308.

- 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”?

[Insert screenshot and brief explanation here.]



```

mysql> WHERE City = 'Woonsocket' at line 1
mysql> SELECT COUNT (*) FROM CUSTOMERS WHERE City = 'Woonsocket';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use ne
mysql> WHERE City = 'Woonsocket' at line 1
mysql> SELECT COUNT (*) FROM CUSTOMER WHERE City = 'Woonsocket';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use ne
mysql> WHERE City = 'Woonsocket' at line 1
mysql> use Customer;
ERROR 1049 (42000): Unknown database 'Customer'
mysql> use CUSTOMER;
ERROR 1049 (42000): Unknown database 'CUSTOMER'
mysql> show Customer;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use ne
mysql> describe CUSTOMER;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int(11) | NO | PRI | NULL | |
| FirstName | varchar(25) | YES | | NULL | |
| LastName | varchar(25) | YES | | NULL | |
| Street | varchar(50) | YES | | NULL | |
| City | varchar(50) | YES | | NULL | |
| State | varchar(25) | YES | | NULL | |
| ZipCode | int(11) | YES | | NULL | |
| Telephone | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> SELECT COUNT(*) FROM CUSTOMER WHERE CUSTOMER.City = 'Woonsocket';
+-----+
| COUNT(*) |
+-----+
| 7 |
+-----+
1 row in set (0.01 sec)

mysql>

```

Selecting a count of all records in the city of Woonsocket RI, the return is a total of 7.

The code was `SELECT COUNT (*) FROM CUSTOMER WHERE CUSTOMER.City = 'Woonsocket';`

- 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?



[Insert screenshot and brief explanation here.]

Using the code `SELECT Status, Step FROM RMA WHERE OrderID = 5175` produced the results above showing Status as Pending and Step as 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?



[Insert screenshot and brief explanation here.]

```
mysql> SELECT COUNT(*) FROM CUSTOMER WHERE CUSTOMER.City = 'Woonsocket';
+-----+
| COUNT(*) |
+-----+
| 7 |
+-----+
1 row in set (0.01 sec)

mysql> SELECT Status, Step FROM RMA WHERE OrderID = 5175;
+-----+-----+
| Status | Step |
+-----+-----+
| Pending | Awaiting customer Documentation |
+-----+-----+
1 row in set (0.02 sec)

mysql> UPDATE RMA SET Status = "Complete", Step = "Credit Customer Account" WHERE OrderID = 5175;
Query OK, 1 row affected (0.07 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 (0.02 sec)

mysql>
```

The RMA table fields, Status and Step were updated, a new search for those fields in order 5175 shows the above results.

- Delete RMA records.
 - i. Write an SQL statement to delete all records with a reason of "Rejected."
 1. How many records were deleted?



[Insert screenshot and brief explanation here.]

```
mysql> use QuantigrationUpdate;
ERROR 1049 (42000): Unknown database 'QuantigrationUpdate'
mysql> use QuantigrationUpdates;
Database changed
mysql> delete+ FROM RMA;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ne 1'
mysql> DELETE + FROM RMA;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ne 1'
mysql> DELETE (*) FROM RMA;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'line 1'
mysql> show tables;
+-----+
| Tables_in_QuantigrationUpdates |
+-----+
| CUSTOMER                       |
| ORDERS                         |
| RMA                            |
+-----+
3 rows in set (0.00 sec)

mysql> delete + FROM RMA;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ne 1'
mysql> DELETE FROM RMA WHERE Reason = "Rejected";
Query OK, 596 rows affected (0.16 sec)

mysql>
```

Used the code DELETE FROM RMA WHERE Reason = “Rejected”, 596 records were deleted.

3. **Update your existing tables** from “Customer” to “Collaborator” using SQL based on this change in requirements. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:
 - a. Rename all instances of “Customer” to “Collaborator.”



[Insert screenshot and brief explanation here.]

```
mysql> RENAME field CustomerID as CollaboratorID FROM COLLABORATOR;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use ne
as collaboratorID FROM COLLABORATOR' at line 1
mysql> RENAME CustomerID TO CollaboratorID IN COLLABORATOR;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use ne
laboratorID IN COLLABORATOR' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| Landi |
| QuantigrationRMA |
| QuantigrationUpdates |
| classicmodels |
| mysql |
| performance_schema |
+-----+
7 rows in set (0.00 sec)

mysql> use QuantigrationUpdates;
Database changed
mysql> describe COLLABORATOR;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| CustomerID | int(11) | NO | PRI | NULL |  |
| FirstName | varchar(25) | YES |  | NULL |  |
| LastName | varchar(25) | YES |  | NULL |  |
| Street | varchar(50) | YES |  | NULL |  |
| City | varchar(50) | YES |  | NULL |  |
| State | varchar(25) | YES |  | NULL |  |
| ZipCode | int(11) | YES |  | NULL |  |
| Telephone | varchar(15) | YES |  | NULL |  |
+-----+
8 rows in set (0.00 sec)

mysql>
```

I was able to change the name of the Table CUSTOMER to COLLABORATOR, I could not change all instances of the word Customer, for instance CustomerID I could not change to CollaboratorID.

4. **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 that has a .csv extension.



[Insert screenshot and brief explanation here.]

The screenshot shows a web browser window with a terminal interface. The terminal displays the following commands and output:

```
mysql> describe Collaborator;
ERROR 1356 (HY000): View 'QuantigrationUpdates.collaborator' references invalid table(s) or column(s) or function(s) or definer/invoke of view lack rights
mysql> describe COLLABORATOR;
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| CustomerID | int(11)       | NO   | PRI | NULL    |       |
| FirstName  | varchar(25)   | YES  |     | NULL    |       |
| LastName   | varchar(25)   | YES  |     | NULL    |       |
| Street     | varchar(50)   | YES  |     | NULL    |       |
| City       | varchar(50)   | YES  |     | NULL    |       |
| State      | varchar(25)   | YES  |     | NULL    |       |
| ZipCode    | int(11)       | YES  |     | NULL    |       |
| Telephone  | varchar(15)   | YES  |     | NULL    |       |
+-----+
8 rows in set (0.08 sec)

mysql> SELECT * FROM ORDERS INTO OUTFILE '/home/codio/workspace/Orders3.csv'
-> FIELDS TERMINATED BY ','
-> ENCLOSED BY '"'
-> LINES TERMINATED BY '\n';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'E
LINES TERMINATED BY '\n' at line 3
mysql>
mysql> mysql> SELECT * FROM ORDERS INTO OUTFILE '/home/codio/workspace/Orders3.csv'
-> FIELDS TERMINATED BY ','
-> ENCLOSED BY '"'
-> LINES TERMINATED BY '\n';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'm
ROM ORDERS INTO OUTFILE '/home/codio/workspace/Orders3.csv'
' at line 1
mysql> SELECT * FROM ORDERS INTO OUTFILE '/home/codio/workspace/Orders3.csv'
-> FIELDS TERMINATED BY ','
-> ENCLOSED BY '"'
-> LINES TERMINATED BY '\n';
Query OK, 37998 rows affected (0.34 sec)

mysql>
```

On the left side of the terminal, a file explorer shows a list of files in the 'DAD-220 SQL Lab Environment' directory. The files listed are:

- .guides
- .ssh
- __pycache__
- sqlite
- staruml
- tkinterpy
- .codio
- .settings
- change_perm.sh
- customers.csv
- FleetMaintenanceRecords.cs
- HRandIS-Employee.csv
- mysqdsampledatabse.sql
- orders.csv
- Orders2.csv
- Orders3.csv
- README.md
- rma.csv

Orders3.csv file was able to be opened, shown in list of files on left.