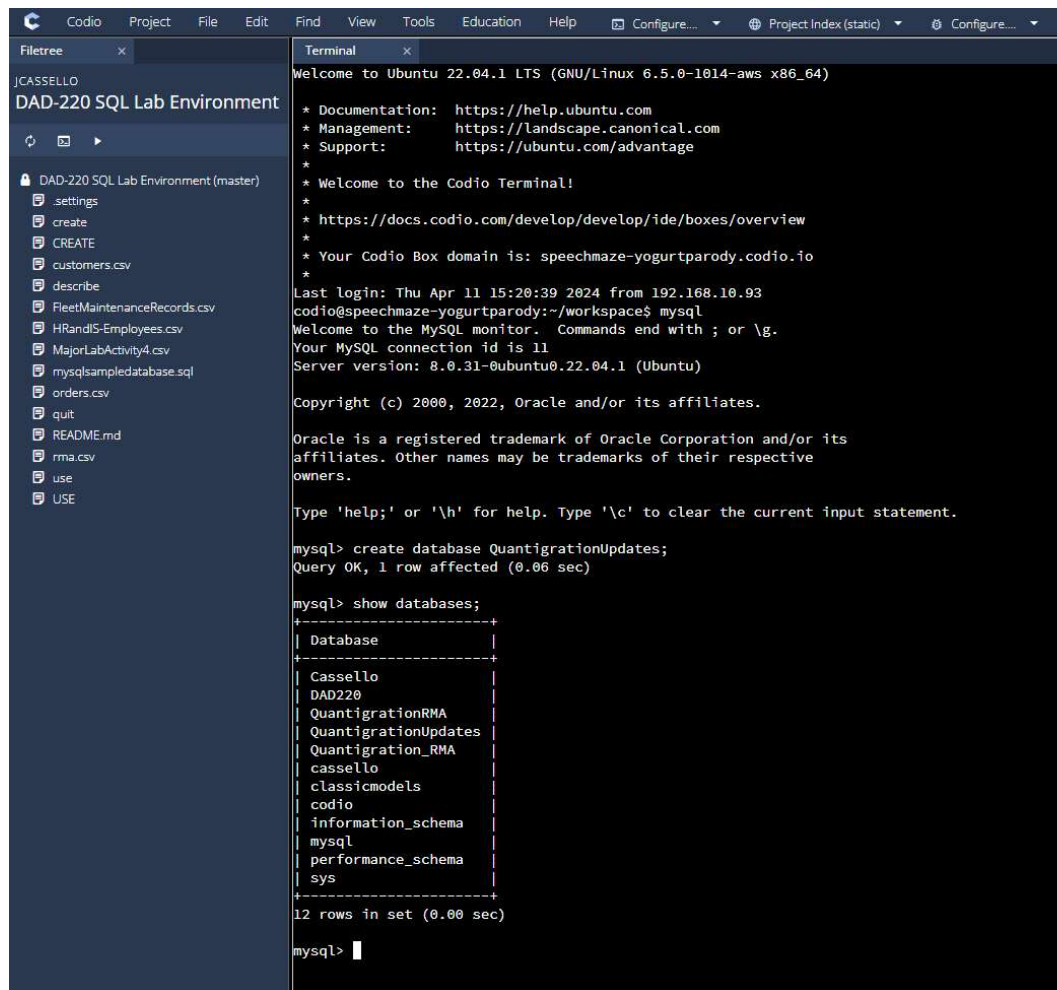


DAD 220 Project One Template

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 in the Supporting Materials section of the Project One Guidelines and Rubric for assistance.

Step One: Create a Database

- In your online IDE (Codio), **create a database schema** called QuantigrationUpdates that will hold tables by using SQL commands.
 - List out the database name on the screen.
 - Provide the SQL commands you ran against MySQL to complete this step.



The screenshot shows the Codio IDE interface. On the left is the Filetree with a project named 'DAD-220 SQL Lab Environment'. The main area is a terminal window. The terminal output shows the Ubuntu 22.04.1 LTS welcome message, followed by the MySQL command prompt. The user runs 'mysql' to start the MySQL monitor. Then, they run 'create database QuantigrationUpdates;', which returns 'Query OK, 1 row affected (0.06 sec)'. Next, they run 'show databases;', which returns a list of databases including 'Cassello', 'DAD220', 'QuantigrationRMA', 'QuantigrationUpdates', 'Quantigration_RMA', 'cassello', 'classicmodels', 'codio', 'information_schema', 'mysql', 'performance_schema', and 'sys'. The terminal output is as follows:

```
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 6.5.0-1014-aws x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage
*
* Welcome to the Codio Terminal!
*
* https://docs.codio.com/develop/develop/ide/boxes/overview
*
* Your Codio Box domain is: speechmaze-yogurtparody.codio.io
*
Last login: Thu Apr 11 15:20:39 2024 from 192.168.10.93
codio@speechmaze-yogurtparody:~/workspace$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.31-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> create database QuantigrationUpdates;
Query OK, 1 row affected (0.06 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| Cassello |
| DAD220   |
| QuantigrationRMA |
| QuantigrationUpdates |
| Quantigration_RMA |
| cassello |
| classicmodels |
| codio    |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
12 rows in set (0.00 sec)

mysql>
```

- Connect to the QuantigrationUpdates schema. Using the ERD as a reference, **write SQL commands to create** the following **tables** with the appropriate attributes and keys to demonstrate relationships based on the ERD.
 - A table named Customers to store customer information with a primary key of Customer ID. Provide the SQL commands you ran against MySQL to complete this step.

```

mysql> create database QuantigrationUpdates;
Query OK, 1 row affected (0.06 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| Casello  |
| DAD220   |
| QuantigrationRMA |
| QuantigrationUpdates |
| Quantigration_RMA |
| casello  |
| classicmodels |
| codio    |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
12 rows in set (0.00 sec)

mysql> create table Customers (
  -> CustomerID INT primary key,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode VARCHAR(10),
  -> Telephone VARCHAR(15)
  -> );
ERROR 1046 (3D000): No database selected
mysql> use QuantigrationUpdates;
Database changed
mysql> create table Customers (
  -> CustomerID INT primary key,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode VARCHAR(10),
  -> Telephone VARCHAR(15)
  -> );
Query OK, 0 rows affected (0.51 sec)

mysql> describe Customers;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int | 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 | varchar(10) | YES | | NULL | |
| Telephone | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql>

```

```

mysql> create table Customers (
  -> CustomerID INT primary key,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),

```

```
-> ZipCode VARCHAR(10),  
-> Telephone VARCHAR(15)  
-> );
```

- A table named Orders to store order information with a primary key of Order ID and a foreign key of Customer ID. Provide the SQL commands you ran against MySQL to complete this step.

```
Codio Project File Edit Find View Tools Education Help Configure... Project Index (static)
Filetree x
JCASSELLO
DAD-220 SQL Lab Environment
DAD-220 SQL Lab Environment (master)
  settings
  create
  CREATE
  customers.csv
  describe
  FleetMaintenanceRecords.csv
  HRandIS-Employees.csv
  MajorLabActivity4.csv
  mysqlsampledatabase.sql
  orders.csv
  quit
  README.md
  rma.csv
  use
  USE
Terminal x
| information_schema |
| mysql               |
| performance_schema  |
| sys                 |
+-----+
12 rows in set (0.00 sec)

mysql> create table Customers (
  -> CustomerID INT primary key,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode VARCHAR(10),
  -> Telephone VARCHAR(15)
  -> );
ERROR 1046 (3D000): No database selected
mysql> use QuantigrationUpdates;
Database changed
mysql> create table Customers (
  -> CustomerID INT primary key,
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode VARCHAR(10),
  -> Telephone VARCHAR(15)
  -> );
Query OK, 0 rows affected (0.51 sec)

mysql> describe Customers;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int       | 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    | varchar(10) | YES  |     | NULL    |       |
| Telephone  | varchar(15) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> create table Orders (
  -> OrderID INT primary key,
  -> CustomerID INT,
  -> SKU VARCHAR(20),
  -> Description VARCHAR(50),
  -> foreign key (CustomerID) references Customers(CustomerID)
  -> );
Query OK, 0 rows affected (0.27 sec)

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

mysql>
```

```
mysql> create table Orders (
  -> OrderID INT primary key,
  -> CustomerID INT,
  -> SKU VARCHAR(20),
  -> Description VARCHAR(50),
  -> foreign key (CustomerID) references Customers(CustomerID)
  -> );
```

- A table named RMA to store RMA information with a primary key of RMA ID and a foreign key of Order ID. Provide the SQL commands you ran against MySQL to complete this step.

The screenshot shows a MySQL terminal window with the following SQL commands and output:

```

mysql> create table Customers (
  -> FirstName VARCHAR(25),
  -> LastName VARCHAR(25),
  -> Street VARCHAR(50),
  -> City VARCHAR(50),
  -> State VARCHAR(25),
  -> ZipCode VARCHAR(10),
  -> Telephone VARCHAR(15)
  -> );
Query OK, 0 rows affected (0.51 sec)

mysql> describe Customers;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int           | 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    | varchar(10)   | YES  |     | NULL    |       |
| Telephone  | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> create table Orders (
  -> OrderID INT primary key,
  -> CustomerID INT,
  -> SKU VARCHAR(20),
  -> Description VARCHAR(50),
  -> foreign key (CustomerID) references Customers(CustomerID)
  -> );
Query OK, 0 rows affected (0.27 sec)

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

mysql> create table RMA (
  -> RMAID INT primary key,
  -> OrderID INT,
  -> Reason VARCHAR(15),
  -> Step VARCHAR(50),
  -> Status VARCHAR(15),
  -> foreign key (OrderID) references Orders(OrderID)
  -> );
Query OK, 0 rows affected (0.32 sec)

mysql> describe RMA;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| RMAID      | int           | NO   | PRI | NULL    |       |
| OrderID    | int           | YES  | MUL | NULL    |       |
| Reason     | varchar(15)   | YES  |     | NULL    |       |
| Step       | varchar(50)   | YES  |     | NULL    |       |
| Status     | varchar(15)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql>

```

```

mysql> create table RMA (
  -> RMAID INT primary key,
  -> OrderID INT,
  -> Reason VARCHAR(15),
  -> Step VARCHAR(50),
  -> Status VARCHAR(15),

```

-> foreign key (OrderID) references Orders(OrderID)
->);

Step Two: Load and Query the Data

- **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. Perform this step three times, once for each table.
 - Provide the SQL commands you ran against MySQL to complete this step.

```

mysql> create table Customers (
  -> CustomerID int primary key,
  -> FirstName varchar(25),
  -> LastName varchar(25),
  -> Street varchar(50),
  -> City varchar(50),
  -> State varchar(25),
  -> ZipCode varchar(10),
  -> Telephone varchar(15)
  -> );
Query OK, 0 rows affected (0.01 sec)

mysql> describe Customers;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CustomerID | int | 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 | varchar(10) | YES | | NULL | |
| Telephone | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> create table Orders (
  -> OrderID int primary key,
  -> CustomerID int,
  -> SKU VARCHAR(20),
  -> Description VARCHAR(50),
  -> foreign key (CustomerID) references Customers(CustomerID)
  -> );
Query OK, 0 rows affected (0.27 sec)

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

mysql> create table RMA (
  -> RMAID int primary key,
  -> OrderID int,
  -> Reason VARCHAR(15),
  -> Step VARCHAR(50),
  -> Status VARCHAR(15),
  -> foreign key (OrderID) references Orders(OrderID)
  -> );
Query OK, 0 rows affected (0.32 sec)

mysql> describe RMA;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| RMAID | int | NO | PRI | NULL | |
| OrderID | int | YES | MUL | NULL | |
| Reason | varchar(15) | YES | | NULL | |
| Step | varchar(50) | YES | | NULL | |
| Status | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> load data infile '/home/codio/workspace/customers.csv'
  -> into table Customers
  -> fields terminated by ','
  -> enclosed by '"'
  -> lines terminated by '\r\n'
  -> ignore 1 rows;
Query OK, 37993 rows affected (2.65 sec)
Records: 37993 Deleted: 0 Skipped: 0 Warnings: 0

```



```

mysql> create database DAD-220 SQL Lab Environment;
mysql> use DAD-220 SQL Lab Environment;
mysql> create table Customers (
  CustomerID int(11) not null,
  Name varchar(255) not null,
  Address varchar(255) not null,
  City varchar(255) not null,
  State varchar(255) not null,
  ZipCode int(11) not null,
  primary key (CustomerID)
);
mysql> load data infile '/home/codio/workspace/customers.csv' into table Customers fields terminated by ',' lines terminated by '\r\n' ignore 1 rows;
Query OK, 37993 rows affected (2.65 sec)
Records: 37993 Deleted: 0 Skipped: 0 Warnings: 0

mysql> create table Orders (
  OrderID int(11) not null,
  CustomerID int(11) not null,
  OrderDate datetime not null,
  ProductID int(11) not null,
  Quantity int(11) not null,
  Price decimal(10,2) not null,
  primary key (OrderID),
  foreign key (CustomerID) references Customers (CustomerID)
);
mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\r\n' ignore 1 rows;
Query OK, 37993 rows affected (2.81 sec)
Records: 37993 Deleted: 0 Skipped: 0 Warnings: 0

mysql> create table RMA (
  RMAID int(11) not null,
  OrderID int(11) not null,
  RMADate datetime not null,
  ProductID int(11) not null,
  Quantity int(11) not null,
  Price decimal(10,2) not null,
  primary key (RMAID),
  foreign key (OrderID) references Orders (OrderID)
);
mysql> load data infile '/home/codio/workspace/rma.csv' into table RMA fields terminated by ',' lines terminated by '\r\n' ignore 1 rows;
Query OK, 38161 rows affected (2.00 sec)
Records: 38161 Deleted: 0 Skipped: 0 Warnings: 0

```

mysql> load data infile '/home/codio/workspace/customers.csv'

- > into table Customers
- > fields terminated by ','
- > enclosed by ''''
- > lines terminated by '\r\n'
- > ignore 1 rows;

Query OK, 37993 rows affected (2.65 sec)

Records: 37993 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' ignore 1 rows;

Query OK, 37993 rows affected (2.81 sec)

Records: 37993 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' ignore 1 rows;

Query OK, 38161 rows affected (2.00 sec)

Records: 38161 Deleted: 0 Skipped: 0 Warnings: 0

- **Write basic queries** against the imported tables to organize and analyze the targeted data. For each query, replace the bracketed text with a screenshot of the query and its output. Also, include a one- to three-sentence description of the output.
 - Write a SQL query that returns the count of orders for customers located only in Framingham, Massachusetts.
 - This query will use a table join between the Customers and Orders tables. The query will also use a WHERE clause.

- How many records were returned?

505 records were returned for customers located only in Framingham, Massachusetts.

```

--> MODIFY COLUMN CustomerID INT NOT NULL;
Query OK, 0 rows affected (0.86 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\n';
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('Quantigratonupdates`.`Orders`, CONSTRAINT `Orders_ibfk_1` FOREIGN KEY (`CustomerID`) REFERENCES `Customers` (`CustomerID`))
mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\n' ignore 1 row;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('Quantigratonupdates`.`Orders`, CONSTRAINT `Orders_ibfk_1` FOREIGN KEY (`CustomerID`) REFERENCES `Customers` (`CustomerID`))
mysql> alter table Customers
--> modify column zipcode INT;
Query OK, 37993 rows affected (2.67 sec)
Records: 37993 Duplicates: 0 Warnings: 0

mysql> alter table Orders
--> drop primary key;
--> add primary key (OrderID);
Query OK, 0 rows affected (0.82 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| OrderID | int | NO | PRI | NULL | |
| CustomerID | int | NO | MHA | NULL | |
| SKU | varchar(20) | YES | | NULL | |
| Description | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.80 sec)

mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\n' ignore 1 row;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('Quantigratonupdates`.`Orders`, CONSTRAINT `Orders_ibfk_1` FOREIGN KEY (`CustomerID`) REFERENCES `Customers` (`CustomerID`))
mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\n' ignore 1 row;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('Quantigratonupdates`.`Orders`, CONSTRAINT `Orders_ibfk_1` FOREIGN KEY (`CustomerID`) REFERENCES `Customers` (`CustomerID`))
mysql> alter table Orders
--> drop foreign key Orders_ibfk_1;
Query OK, 0 rows affected (0.89 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> load data infile '/home/codio/workspace/orders.csv' into table Orders fields terminated by ',' lines terminated by '\n' ignore 1 row;
Query OK, 37993 rows affected (2.41 sec)
Records: 37993 Deleted: 0 Skipped: 0 Warnings: 0

mysql> load data infile '/home/codio/workspace/rma.csv' into table RMA fields terminated by ',' lines terminated by '\n' ignore 1 row;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('Quantigratonupdates`.`RMA`, CONSTRAINT `RMA_ibfk_1` FOREIGN KEY (`OrderID`) REFERENCES `Orders` (`OrderID`))
mysql> alter table RMA
--> drop foreign key RMA_ibfk_1;
Query OK, 0 rows affected (0.89 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> load data infile '/home/codio/workspace/rma.csv' into table RMA fields terminated by ',' lines terminated by '\n' ignore 1 row;
Query OK, 38161 rows affected (2.88 sec)
Records: 38161 Deleted: 0 Skipped: 0 Warnings: 0

mysql> select count(*) as OrderCount
--> from Customers c
--> join Orders o on c.CustomerID = o.CustomerID
--> where c.City = 'Framingham';
+-----+
| OrderCount |
+-----+
| 505 |
+-----+
1 row in set (0.03 sec)

mysql>

```

- Write a SQL query to select all of the customers located in Massachusetts.
 - Use a WHERE clause to limit the number of records in the Customers table to only those who are located in Massachusetts.
 - How many records were returned?

982 records were returned for customers who are located in Massachusetts.

```
C Codo Project File Edit View Tools Education Help Configure... Project Index (status) Configure...
DAD-220 SQL Lab Environment
DAD-220 SQL Lab Environment (master)
  settings
  create
  CREATE
  customers.csv
  describe
  FleetMaintenanceRecords.csv
  HRandSEmployees.csv
  HospitalAdmission.csv
  mysampledatabase.sql
  orders.csv
  sql
  README.md
  use
  USE

Terminal
98806 | Clorissa | Golden | 525 Hague St. | Framingham | Massachusetts | 1701 | 887-8278144 |
98807 | Sonia | Weaver | 18 Milton Drive | Framingham | Massachusetts | 1701 | 142-492-6339 |
98188 | Anita | O'Neill | 86 Oak St. | Duxbury | Massachusetts | 92088 | 727-9124133 |
98179 | Suzanne | Chene | 64 South Second Avenue | Framingham | Massachusetts | 1701 | 367-746-6203 |
98212 | Felix | Glenn | 23 Hague Street | Framingham | Massachusetts | 38584 | 932-7892938 |
98211 | Clifford | Harding | 128 First Drive | Pittsburgh | Massachusetts | 12472 | 329-7521916 |
98289 | Terra | Martinez | 76 New Blvd. | Framingham | Massachusetts | 1701 | 884-533-3536 |
98311 | Faith | Mc Connell | 766 Old Boulevard | Framingham | Massachusetts | 1701 | 160-756-3468 |
98375 | Frederick | Mitchell | 246 White Old Boulevard | Framingham | Massachusetts | 4129 | 165-3486893 |
98377 | Wendell | Levy | 773 First Boulevard | New Orleans | Massachusetts | 92888 | 923-897-6239 |
98352 | Chanda | Lambert | 722 Nobel Blvd. | Virginia Beach | Massachusetts | 92888 | 306-922-8124 |
98355 | Lashonda | Holland | 820 Green New Road | Framingham | Massachusetts | 1701 | 2225971276 |
98309 | Marsha | Blair | 887 Fabien Avenue | Framingham | Massachusetts | 1701 | 6203273879 |
98449 | Karl | Law | 58 Green Milton Way | Milwaukee | Massachusetts | 31229 | 1485763861 |
98492 | Bianca | Hayes | 554 East Milton Blvd. | Long Beach | Massachusetts | 35822 | 647-976-1546 |
98493 | Brandon | O'Connor | 989 New St. | Framingham | Massachusetts | 1701 | 665-752-7058 |
98546 | Daphne | Haas | 39 South Clarendon Drive | Framingham | Massachusetts | 26856 | 357871-6216 |
98515 | Vicky | Diaz | 47 Hague Avenue | Framingham | Massachusetts | 1701 | 421-1028857 |
98535 | Denise | Dalton | 179 Clarendon St. | Framingham | Massachusetts | 1701 | 787-331-0897 |
98687 | Tracy | Olson | 996 White Clarendon Freeway | Framingham | Massachusetts | 1701 | 987-739-5312 |
98786 | Roger | Noble | 21 West Rocky Hague Boulevard | Mesa | Massachusetts | 5386 | 17261596 |
98745 | Bryant | Gibbs | 823 East Cowley St. | Framingham | Massachusetts | 1701 | 1366122185 |
98757 | Lurfa | Cantu | 56 South Second Street | Boston | Massachusetts | 78281 | 3649902652 |
98798 | Trey | Rich | 17 Nobel Avenue | Framingham | Massachusetts | 1701 | 276384-3689 |
98798 | Trey | Rich | 17 Nobel Avenue | Framingham | Massachusetts | 1701 | 566166-9183 |
98848 | Angel | Fitzgerald | 265 Rocky Cowley Avenue | Framingham | Massachusetts | 1701 | 590-4026537 |
98872 | Steve | Clemenston | 83 New Street | Framingham | Massachusetts | 1701 | 586477784 |
98859 | Brandie | Strickland | 38 West Old Way | Richmond | Massachusetts | 98814 | 336-521-9862 |
98811 | Helen | Cox | 169 Milton Avenue | Oklahoma | Massachusetts | 88825 | 386884-7248 |
98815 | Toni | Liu | 609 Hague Way | Framingham | Massachusetts | 1701 | 276-547-5615 |
98824 | Susana | Coffey | 42 Old Road | Framingham | Massachusetts | 1701 | 565689195 |
98842 | Darlan | Dodson | 36 White Old Boulevard | Framingham | Massachusetts | 26816 | 460-974-8802 |
98853 | Robbye | Cooley | 876 White Oak Way | Framingham | Massachusetts | 1701 | 883-8764146 |
98955 | Trisha | McKencie | 36 East Nobel Avenue | Honolulu | Massachusetts | 39274 | 817-2787256 |
98955 | Angela | Clemenston | 758 Second Boulevard | Dayton | Massachusetts | 26855 | 884-566-9849 |
99112 | Donald | Griffin | 177 East Rocky Clarendon Blvd. | Framingham | Massachusetts | 1701 | 786747-9238 |
99161 | Jesse | Henry | 82 Rocky Oak Avenue | Long Beach | Massachusetts | 37887 | 616-966-7626 |
99398 | Adrian | Bradshaw | 55 Rocky Fabien Street | Santa Ana | Massachusetts | 35388 | 957-488-9388 |
99398 | Rusty | Wood | 82 White Hague Parkway | Fremont | Massachusetts | 53829 | 466-668297 |
99412 | Samantha | Parrish | 731 East Fabien Boulevard | Madison | Massachusetts | 84488 | 2832787461 |
99426 | Tanisha | Gordon | 39 Fabien Street | Framingham | Massachusetts | 1701 | 994072-8667 |
99438 | Christina | Ellis | 234 North Rocky New Road | Framingham | Massachusetts | 53316 | 988-746-9826 |
99439 | Felix | Fuller | 75 Milton Freeway | Framingham | Massachusetts | 1701 | 157-186-4835 |
99442 | Shelby | Flores | 543 Hague Road | Framingham | Massachusetts | 3888 | 542-7197739 |
99478 | Trisha | Cherry | 36 Green Milton Boulevard | Framingham | Massachusetts | 1701 | 6246514973 |
99509 | Sean | Bullard | 18 South Old Avenue | Baltimore | Massachusetts | 46145 | 824897-1483 |
99571 | Jeremiah | Rodgers | 91 North Hague Street | Detroit | Massachusetts | 99752 | 752-619-8914 |
99616 | Angelina | Trujillo | 98 Rocky Cowley Way | Shreveport | Massachusetts | 37201 | 331-229-4312 |
99676 | Edgar | Dodge | 28 Rocky Nobel Way | Framingham | Massachusetts | 1701 | 212-124-1812 |
99698 | Darliss | Harris | 234 Cowley Road | Framingham | Massachusetts | 1701 | 676-4451359 |
99699 | Nicole | Berg | 31 East Second Drive | Framingham | Massachusetts | 1701 | 8216564954 |
99942 | Mandi | Law | 59 Fabien Road | Wichita | Massachusetts | 47279 | 378884-7081 |

982 rows in set (0.84 sec)

mysql> select count(*) from Customers where State = 'Massachusetts';
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 'select count(*) from Customers where State = 'Massachusetts'
mysql> select count(*) Customers where State = 'Massachusetts';
ERROR 1054 (42122): Unknown column 'State' in 'where clause'
mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
| 982 |
+-----+
1 row in set (0.82 sec)

mysql>
```

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

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

```
C  Code  Project  File  Edit  Find  View  Tools  Education  Help  Config...  ProjectIndexState  @ Config...
DAD-220 SQL Lab Environment
DAD-220 SQL Lab Environment (master)
  settings
  CHARTS
  Customers.csv
  describe
  FieldNamesAndFieldRecords.csv
  HSQLDB_Employees.csv
  MajorLabActivity.csv
  mypyandpydatabase.sql
  orders.csv
  README.md
  sql
  sqlcmd
  use
  use

mysql> select count(*) from Customers where State = 'Massachusetts';
ERROR 1064 (4288): 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 'select count(*) from Customers where State = 'Massachusetts'' at line 1
mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
|      982 |
+-----+
1 row in set (0.02 sec)

mysql> insert into Customers (CustomerID, FirstName, LastName, Street, City, State, ZipCode, Telephone)
-> values (100004, 'Luke', 'Skywalker', '135 Halden Lane', 'New York', 'NY', 10222, '212-555-1234'),
-> (100005, 'Winston', 'Smith', '123 Sycamore Street', 'Greensboro', 'NC', 27401, '919-555-0023'),
-> (100006, 'Maryanne', 'Jenkins', '1 Coconut Way', 'Napier', 'FL', 33408, '321-555-0007'),
-> (100007, 'Janet', 'Williams', '55 Redondo Beach Blvd', 'Torrance', 'CA', 90501, '310-555-5678');
Query OK, 4 rows affected (0.09 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select *
-> from Customers
-> where CustomerID IN (100004, 100005, 100006, 100007);
+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | FirstName | LastName | Street | City | State | ZipCode | Telephone |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 100004 | Luke | Skywalker | 135 Halden Lane | New York | NY | 10222 | 212-555-1234 |
| 100005 | Winston | Smith | 123 Sycamore Street | Greensboro | NC | 27401 | 919-555-0023 |
| 100006 | Maryanne | Jenkins | 1 Coconut Way | Napier | FL | 33408 | 321-555-0007 |
| 100007 | Janet | Williams | 55 Redondo Beach Blvd | Torrance | CA | 90501 | 310-555-5678 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> 
```

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

```
C  Code  Project  File  Edit  Find  View  Tools  Education  Help  Config...  ProjectIndexState  @ Config...
DAD-220 SQL Lab Environment
DAD-220 SQL Lab Environment (master)
  settings
  CHARTS
  Customers.csv
  describe
  FieldNamesAndFieldRecords.csv
  HSQLDB_Employees.csv
  MajorLabActivity.csv
  mypyandpydatabase.sql
  orders.csv
  README.md
  sql
  sqlcmd
  use
  use

mysql> select count(*) from Customers where State = 'Massachusetts';
ERROR 1064 (4288): 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 'select count(*) from Customers where State = 'Massachusetts'' at line 1
mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
|      982 |
+-----+
1 row in set (0.02 sec)

mysql> insert into Customers (CustomerID, FirstName, LastName, Street, City, State, ZipCode, Telephone)
-> values (100004, 'Luke', 'Skywalker', '135 Halden Lane', 'New York', 'NY', 10222, '212-555-1234'),
-> (100005, 'Winston', 'Smith', '123 Sycamore Street', 'Greensboro', 'NC', 27401, '919-555-0023'),
-> (100006, 'Maryanne', 'Jenkins', '1 Coconut Way', 'Napier', 'FL', 33408, '321-555-0007'),
-> (100007, 'Janet', 'Williams', '55 Redondo Beach Blvd', 'Torrance', 'CA', 90501, '310-555-5678');
Query OK, 4 rows affected (0.09 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select *
-> from Customers
-> where CustomerID IN (100004, 100005, 100006, 100007);
+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | FirstName | LastName | Street | City | State | ZipCode | Telephone |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 100004 | Luke | Skywalker | 135 Halden Lane | New York | NY | 10222 | 212-555-1234 |
| 100005 | Winston | Smith | 123 Sycamore Street | Greensboro | NC | 27401 | 919-555-0023 |
| 100006 | Maryanne | Jenkins | 1 Coconut Way | Napier | FL | 33408 | 321-555-0007 |
| 100007 | Janet | Williams | 55 Redondo Beach Blvd | Torrance | CA | 90501 | 310-555-5678 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
-> 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');
ERROR 1064 (4288): Data for column Description at row 2
mysql> alter table orders modify column Description VARCHAR(100);
Query OK, 37093 rows affected (2.96 sec)
Records: 37093 Duplicates: 0 Warnings: 0

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
-> 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 (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> 
```

- In the Customers table, perform a query to count all records where the city is Woonsocket and the state is Rhode Island.
 - How many records are in the Customers table where the field "city" equals "Woonsocket"?

7 records were returned when the city is Woonsocket and the state is Rhode Island

```

mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
| 982 |
+-----+
1 row in set (0.04 sec)

mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
| 982 |
+-----+
1 row in set (0.02 sec)

mysql> Insert into Customers (CustomerID, FirstName, LastName, Street, City, State, ZipCode, Telephone)
-> values (100004, 'Luke', 'Skywalker', '15 Maiden Lane', 'New York', 'NY', 10022, '212-555-1234'),
-> (100005, 'Winston', 'Smith', '123 Sycamore Street', 'Greensboro', 'NC', 27401, '919-555-9623'),
-> (100006, 'Maryanne', 'Jenkins', '1 Coconut Way', 'Jupiter', 'FL', 33458, '321-555-9897'),
-> (100007, 'Janet', 'Williams', '55 Redondo Beach Blvd', 'Torrance', 'CA', 90501, '310-555-5678');
Query OK, 4 rows affected (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select *
-> from Customers
-> where CustomerID IN (100004, 100005, 100006, 100007);
+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | FirstName | LastName | Street | City | State | ZipCode | Telephone |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 100004 | Luke | Skywalker | 15 Maiden Lane | New York | NY | 10022 | 212-555-1234 |
| 100005 | Winston | Smith | 123 Sycamore Street | Greensboro | NC | 27401 | 919-555-9623 |
| 100006 | Maryanne | Jenkins | 1 Coconut Way | Jupiter | FL | 33458 | 321-555-9897 |
| 100007 | Janet | Williams | 55 Redondo Beach Blvd | Torrance | CA | 90501 | 310-555-5678 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.08 sec)

mysql> Insert into Orders (OrderID, CustomerID, SKU, Description)
-> values (1204305, 100004, 'Adv-24-10C', 'Advanced Switch 10Gig Copper 24 port'),
-> (1204306, 100005, 'Adv-48-10F', 'Advanced Switch 10 Gigs Copper/Fiber 48 port copper 4 port fiber'),
-> (1204307, 100006, 'Ent-24-10F', 'Enterprise Switch 10Gig SFPs 24 Port'),
-> (1204308, 100007, 'Ent-48-10F', 'Enterprise Switch 10Gig SFPs 48 Port');
100008 (22061): Data too long for column 'Description' at row 2.
mysql> alter table Orders modify column Description VARCHAR(100);
Query OK, 37093 rows affected (2.96 sec)
Records: 37093 Duplicates: 0 Warnings: 0

mysql> Insert into Orders (OrderID, CustomerID, SKU, Description)
-> values (1204309, 100006, 'Adv-24-10C', 'Advanced Switch 10Gig Copper 24 port'),
-> (1204306, 100005, 'Adv-48-10F', 'Advanced Switch 10 Gigs Copper/Fiber 48 port copper 4 port fiber'),
-> (1204307, 100006, 'Ent-24-10F', 'Enterprise Switch 10Gig SFPs 24 Port'),
-> (1204308, 100007, 'Ent-48-10F', 'Enterprise Switch 10Gig SFPs 48 port');
Query OK, 4 rows affected (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select count(*) as RecordCount
-> from Customers
-> where City = 'Woonsocket' and State = 'Rhode Island';
+-----+
| RecordCount |
+-----+
| 7 |
+-----+
1 row in set (0.02 sec)

```

- In the RMA database, update a customer's records.
 - Write a SQL statement to select the current fields of status and step for the record in the RMA table with an OrderID value of "5175".
 - What are the current status and step?

Status = Defective

Step = Pending

```

mysql> select count(*) from Customers where State = 'Massachusetts';
+-----+
| count(*) |
+-----+
|      982 |
+-----+
1 row in set (0.02 sec)

mysql> insert into Customers (CustomerID, FirstName, LastName, Street, City, State, ZipCode, Telephone)
-> values (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');
Query OK, 4 rows affected (0.00 sec)
Records: 4 Duplicates: 0 Warnings: 0

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

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
-> 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');
ERROR 1406 (22001): Data too long for column 'Description' at row 2
mysql> alter table Orders modify column Description VARCHAR(100);
Query OK, 37993 rows affected (2.96 sec)
Records: 37993 Duplicates: 0 Warnings: 0

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
-> 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 (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select count(*) as RecordCount
-> from Customers
-> where City = 'Woonsocket' and State = 'Rhode Island';
+-----+
| RecordCount |
+-----+
|      7 |
+-----+
1 row in set (0.02 sec)

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

mysql>

```

- Write a SQL statement to update the **status** and **step** for the **OrderID**, 5175 to **status** = "Complete" and **step** = "Credit Customer Account".
 - What are the updated **status** and **step** values for this record?

Status = Complete

Step = Credit Customer Account


```

mysql> select *
  -> from Customers
  -> where CustomerID IN (100004, 100005, 100006, 100007);
+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | FirstName | LastName | Street | 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 | Torrance | CA | 90501 | 310-555-5678 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
  -> 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');
ERROR 1406 (22001): Data too long for column 'Description' at row 2
mysql> alter table Orders modify column Description VARCHAR(100);
Query OK, 37993 rows affected (2.96 sec)
Records: 37993 Duplicates: 0 Warnings: 0

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
  -> 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 (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select count(*) as RecordCount
  -> from Customers
  -> where City = 'Woonsocket' and State = 'Rhode Island';
+-----+
| RecordCount |
+-----+
| 7 |
+-----+
1 row in set (0.02 sec)

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

mysql> update RMA
  -> set Status = 'Complete', Step = 'Credit Customer Account'
  -> where OrderID = 5175;
Query OK, 1 row affected (3.70 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>

```

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

0 records were returned which means there are no records with that reason.

```

-> (1204307, 100006, 'ENT-24-10F', 'Enterprise Switch 10GigE SFP+ 24 Port'),
-> (1204308, 100007, 'ENT-48-10F', 'Enterprise Switch 10GigE SFP+ 48 port');
ERROR 1406 (22001): Data too long for column 'Description' at row 2
mysql> alter table Orders modify column Description VARCHAR(100);
Query OK, 37993 rows affected (2.96 sec)
Records: 37993 Duplicates: 0 Warnings: 0

mysql> insert into Orders (OrderID, CustomerID, SKU, Description)
-> 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 (0.06 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select count(*) as RecordCount
-> from Customers
-> where City = 'Woonsocket' and State = 'Rhode Island';
+-----+
| RecordCount |
+-----+
|          7 |
+-----+
1 row in set (0.02 sec)

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

mysql> update RMA
-> set Status = 'Complete', Step = 'Credit Customer Account'
-> where OrderID = 5175;
Query OK, 1 row affected (3.70 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> delete from RMA
-> where Reason = 'Rejected';
Query OK, 0 rows affected (0.18 sec)

mysql> select count(*), Reason
-> from RMA
-> Group by Reason;
+-----+-----+
| count(*) | Reason |
+-----+-----+
|      34247 | Product replacement or account refund processed |
|       2419 | Awaiting customer Documentation |
|       1495 | Received returned equipment |
+-----+-----+
3 rows in set (0.12 sec)

mysql>

```

- **Update your existing tables** from "Customer" to "Collaborator" using SQL based on this change in requirements. Copy and paste the SQL you write to do the following action:
 - Rename all instances of "Customer" to "Collaborator".


```

Codo Project File Edit Find View Tools Education Help Configure... Project Index (static) Configure...

Filetree x
jCASSELLO
DAD-220 SQL Lab Environment
  settings
  create
  CREATE
  customers.csv
  describe
  FleetMaintenanceRecords.csv
  HRandIS-Employees.csv
  MajorLabActivity4.csv
  mysqlsampledatabase.sql
  orders.csv
  quit
  README.md
  rma.csv
  use
  USE

Terminal x
Your connection to your Box has been lost. You will automatically be reconnected when the connection is recovered.

Records: 4 Duplicates: 0 Warnings: 0

mysql> select count(*) as RecordCount
-> from Customers
-> where City = 'Woonsocket' and State = 'Rhode Island';
+-----+
| RecordCount |
+-----+
|          7 |
+-----+
1 row in set (0.02 sec)

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

mysql> update RMA
-> set Status = 'Complete', Step = 'Credit Customer Account'
-> where OrderID = 5175;
Query OK, 1 row affected (3.70 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> delete from RMA
-> where Reason = 'Rejected';
Query OK, 0 rows affected (0.10 sec)

mysql> select count(*), Reason
-> from RMA
-> Group by Reason;
+-----+-----+
| count(*) | Reason |
+-----+-----+
| 34247 | Product replacement or account refund processed |
| 2419 | Awaiting customer Documentation |
| 1495 | Received returned equipment |
+-----+-----+
3 rows in set (0.12 sec)

mysql> rename table Customers to Collaborators;
Query OK, 0 rows affected (0.62 sec)

mysql> alter table Orders
-> change column CustomerID CollaboratorID INT;
Query OK, 0 rows affected (7.90 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table RMA
-> change column OrderID CollaboratorID INT;
Query OK, 0 rows affected (0.45 sec)

```

mysql> rename table Customers to Collaborators;
Query OK, 0 rows affected (0.62 sec)

mysql> alter table Orders
-> change column CustomerID CollaboratorID INT;
Query OK, 0 rows affected (7.90 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table RMA
-> change column OrderID CollaboratorID INT;
Query OK, 0 rows affected (0.45 sec)
Records: 0 Duplicates: 0 Warnings: 0

- **Create an output file of the required query results. Write a SQL statement to list the contents of the **Orders** table and send the output to a file that has a CSV extension.**

The screenshot shows the Codio IDE interface. On the left is a file explorer for the 'DAD-220 SQL Lab Environment' project, listing files like .settings, create, CREATE, customers.csv, describe, FleetMaintenanceRecords.csv, HIRandIS-Employees.csv, MajorLabActivity4.csv, mysqlsampledatabase.sql, orders.csv, Project_1.csv, quit, README.md, rma.csv, use, and USE. The main terminal window displays the following output:

```
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 6.5.0-1014-aws x86_64)
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage
*
* Welcome to the Codio Terminal!
*
* https://docs.codio.com/develop/develop/ide/boxes/overview
*
* Your Codio Box domain is: speechmaze-yogurtparody.codio.io
*
Last login: Thu Apr 11 17:12:53 2024 from 192.168.10.226
codio@speechmaze-yogurtparody:~/workspace$ myswl
-bash: myswl: command not found
codio@speechmaze-yogurtparody:~/workspace$ use QuantigrationUpdates;
-bash: use: command not found
codio@speechmaze-yogurtparody:~/workspace$ mysql;
-bash: mysql: command not found
codio@speechmaze-yogurtparody:~/workspace$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.31-0ubuntu0.22.04.1 (Ubuntu)

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owners.

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

mysql> use QuantigrationUpdates;
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> select * from Orders into outfile '/home/codio/workspace/Project_1.csv' fields terminated by ',' enclosed by '"' lines terminated by '\n';
Query OK, 37997 rows affected (0.06 sec)

mysql>
```