



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.

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.

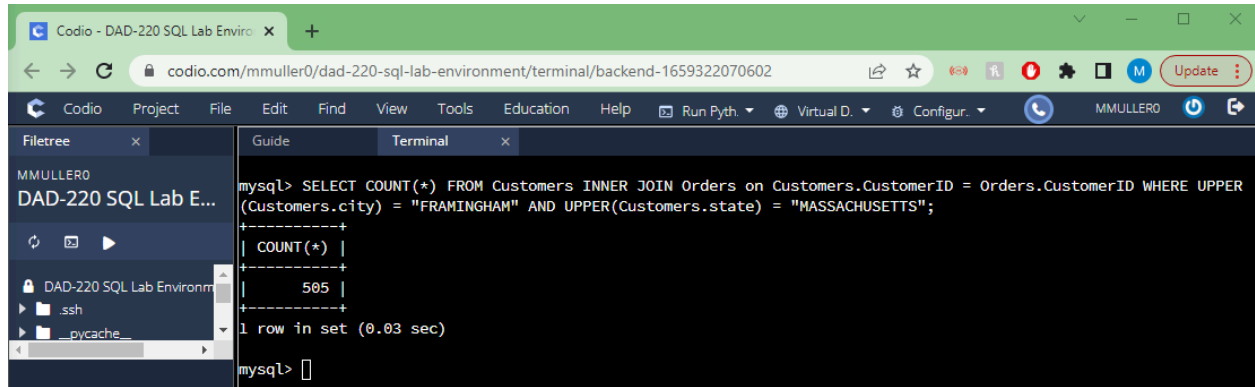
```
LOAD DATA INFILE '/home/codio/workspace/customers.csv' INTO TABLE Customers FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';
```

```
LOAD DATA INFILE '/home/codio/workspace/orders.csv' INTO TABLE Orders FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';
```

```
LOAD DATA INFILE '/home/codio/workspace/rma.csv' INTO TABLE RMA FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';
```

2. Write basic queries against imported tables to organize and analyze targeted data.

- A. 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?
This query returned 505 records. The query joined the Customers and Orders tables via the CustomerID and returned a count of all orders where the customer's city was Farmington and their state was Massachusetts.

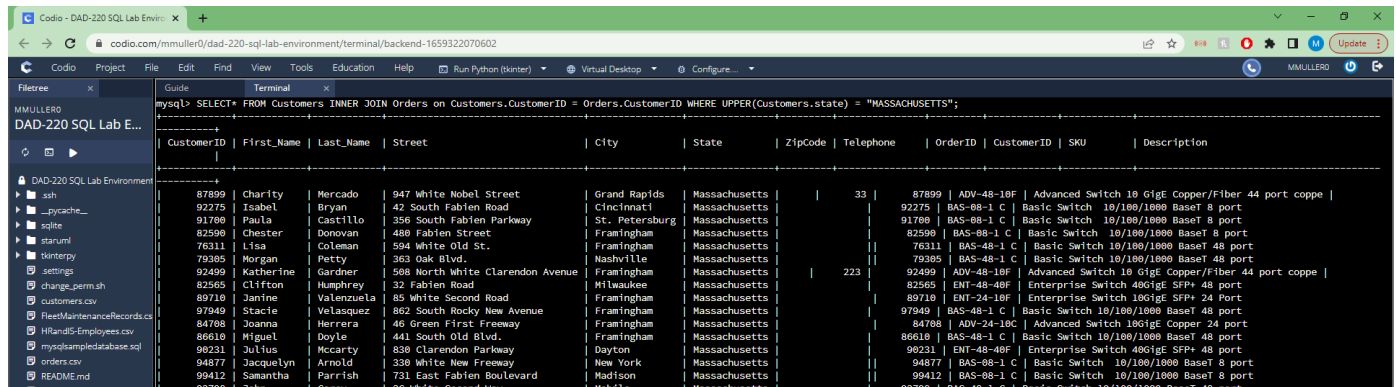


```
mysql> SELECT COUNT(*) FROM Customers INNER JOIN Orders on Customers.CustomerID = Orders.CustomerID WHERE UPPER
(Customers.city) = "FRAMINGHAM" AND UPPER(Customers.state) = "MASSACHUSETTS";
+-----+
| COUNT(*) |
+-----+
|      505 |
+-----+
1 row in set (0.03 sec)

mysql>
```

SELECT COUNT(*) FROM Customers INNER JOIN Orders on Customers.CustomerID = Orders.CustomerID WHERE UPPER(Customers.city) = "FRAMINGHAM" AND UPPER(Customers.state) = "MASSACHUSETTS";

- 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? This query returned 982 records. The query joined the Customers and Orders tables via the CustomerID and returned all of the orders where the customer's state was Massachusetts.



```
mysql> SELECT* FROM Customers INNER JOIN Orders on Customers.CustomerID = Orders.CustomerID WHERE UPPER(Customers.state) = "MASSACHUSETTS";
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CustomerID | First_Name | Last_Name | Street | City | State | ZipCode | Telephone | OrderID | CustomerID | SKU | Description |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 87899 | Charity | Mercado | 947 White Nobel Street | Grand Rapids | Massachusetts | | 33 | 87899 | ADV-48-10F | Advanced Switch 10 G1gE Copper/Fiber 44 port coppe |
| 92275 | Isabel | Bryan | 42 South Fabien Road | Cincinnati | Massachusetts | | | 92275 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
| 91700 | Paula | Castillo | 356 South Fabien Parkway | St. Petersburg | Massachusetts | | | 91700 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
| 82598 | Chester | Donovan | 488 Fabien Street | Framingham | Massachusetts | | | 82598 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
| 76311 | Lisa | Coleman | 594 White Old St. | Framingham | Massachusetts | | | 76311 | BAS-48-1 C | Basic Switch 10/100/1000 BaseT 48 port |
| 79385 | Morgan | Petty | 368 Oak Blvd. | Nashville | Massachusetts | | | 79385 | BAS-48-1 C | Basic Switch 10/100/1000 BaseT 48 port |
| 92499 | Katherine | Gardner | 588 North White Clarendon Avenue | Framingham | Massachusetts | | 223 | 92499 | ADV-48-10F | Advanced Switch 10 G1gE Copper/Fiber 44 port coppe |
| 82565 | Clifton | Humphrey | 32 Fabien Road | Milwaukee | Massachusetts | | | 82565 | ENT-48-40F | Enterprise Switch 40G1gE SFP+ 48 port |
| 89710 | Janine | Valenzuela | 85 White Second Road | Framingham | Massachusetts | | | 89710 | ENT-24-10F | Enterprise Switch 10G1gE SFP+ 24 port |
| 97949 | Stacie | Velasquez | 862 South Rocky New Avenue | Framingham | Massachusetts | | | 97949 | BAS-48-1 C | Basic Switch 10/100/1000 BaseT 48 port |
| 84708 | Joana | Herrera | 46 Green First Freeway | Framingham | Massachusetts | | | 84708 | ADV-24-10C | Advanced Switch 10G1gE Copper 24 port |
| 86610 | Miguel | Doyle | 441 South Old Blvd. | Framingham | Massachusetts | | | 86610 | BAS-48-1 C | Basic Switch 10/100/1000 BaseT 48 port |
| 96231 | Julius | Mccarty | 830 Clarendon Parkway | Dayton | Massachusetts | | | 96231 | ENT-48-40F | Enterprise Switch 40G1gE SFP+ 48 port |
| 94877 | Jacquelyn | Arnold | 330 White New Freeway | New York | Massachusetts | | | 94877 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
| 99412 | Samantha | Parrish | 731 East Fabien Boulevard | Madison | Massachusetts | | | 99412 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
| 92708 | John | Carey | 36 White Second Way | Mobile | Massachusetts | | | 92708 | BAS-08-1 C | Basic Switch 10/100/1000 BaseT 8 port |
```

SELECT* FROM Customers INNER JOIN Orders on Customers.CustomerID = Orders.CustomerID WHERE UPPER(Customers.state) = "MASSACHUSETTS";

- 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



CustomerID	FirstName	LastName	StreetAddress	City	State	ZipCode	Telephone
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

[Insert screenshot and brief explanation here.]

```
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 (0.02 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql>
```

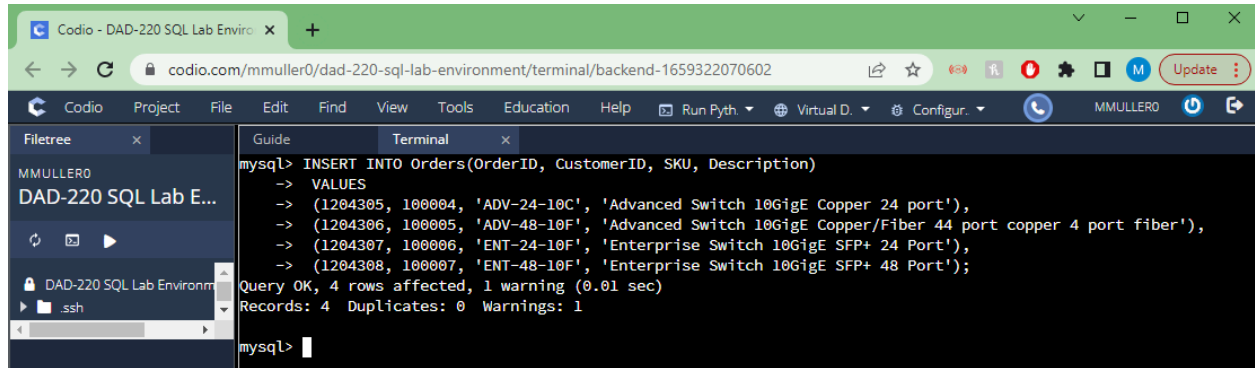
INSERT INTO Customers

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');

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
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(OrderID, CustomerID, SKU, Description)
-> VALUES
-> (1204305, 100004, 'ADV-24-10C', 'Advanced Switch 10GigE Copper 24 port'),
-> (1204306, 100005, 'ADV-48-10F', 'Advanced Switch 10GigE 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 (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 1
mysql>
```

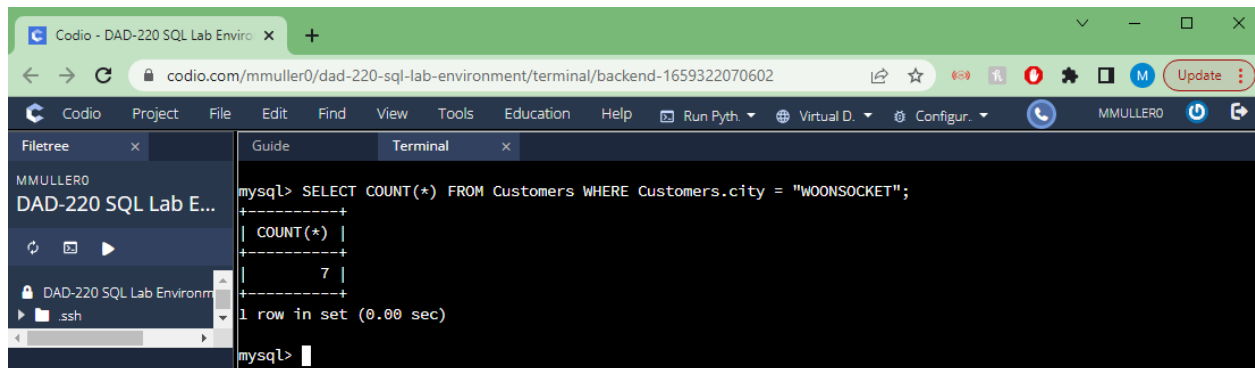
INSERT INTO Orders(OrderID, CustomerID, SKU, Description)

-> VALUES
-> (1204305, 100004, 'ADV-24-10C', 'Advanced Switch 10GigE Copper 24 port'),
-> (1204306, 100005, 'ADV-48-10F', 'Advanced Switch 10GigE 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');

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”?

This query returned 7 records. The query counted all records in the Customers table where city equals “Woonsocket”.



```
mysql> SELECT COUNT(*) FROM Customers WHERE Customers.city = "WOONSOCKET";
+-----+
| COUNT(*) |
+-----+
|         7 |
+-----+
1 row in set (0.00 sec)
mysql>
```

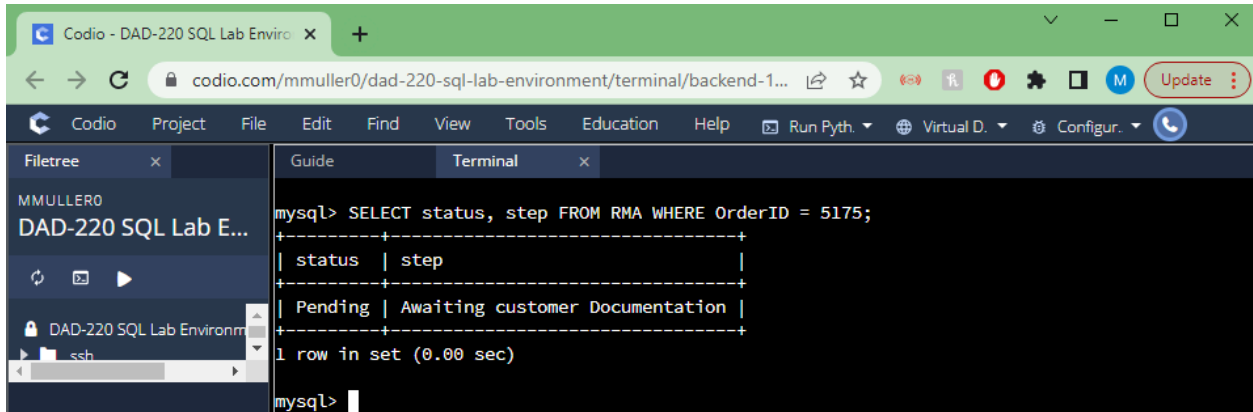
SELECT COUNT(*) FROM Customers WHERE Customers.city = "WOONSOCKET";

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?

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



```
mysql> SELECT status, step FROM RMA WHERE OrderID = 5175;
+-----+-----+
| status | step |
+-----+-----+
| Pending | Awaiting customer Documentation |
+-----+-----+
1 row in set (0.00 sec)

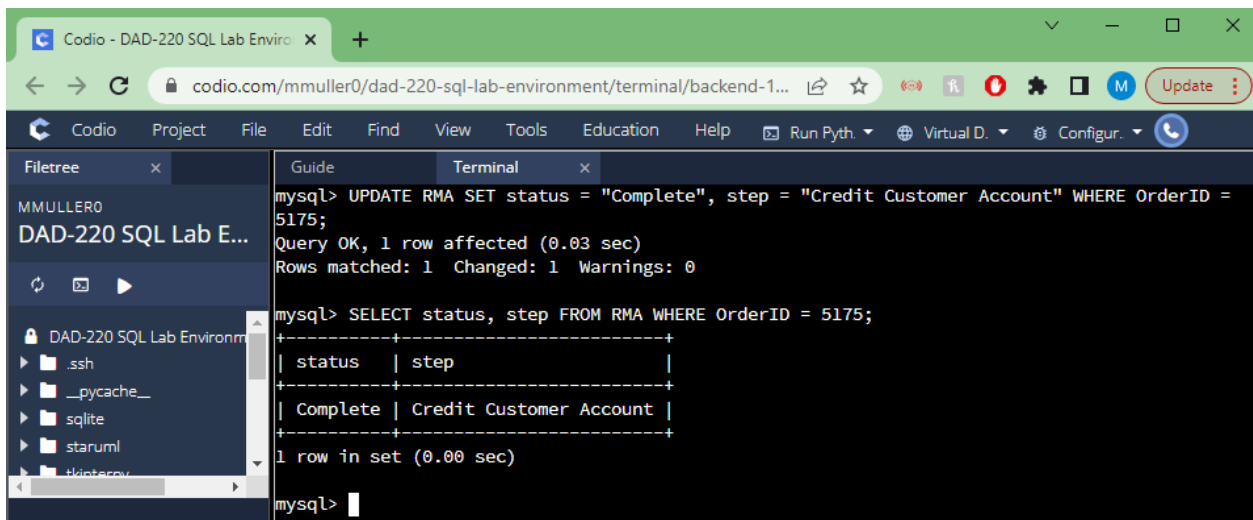
mysql>
```

SELECT status, step FROM RMA WHERE OrderID = 5175;

- 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.

After updating, the values of status and step for the record with OrderID 5175 are "Complete" and "Credit Customer Account," respectively.



```
mysql> UPDATE RMA SET status = "Complete", step = "Credit Customer Account" WHERE OrderID = 5175;
Query OK, 1 row affected (0.03 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>
```

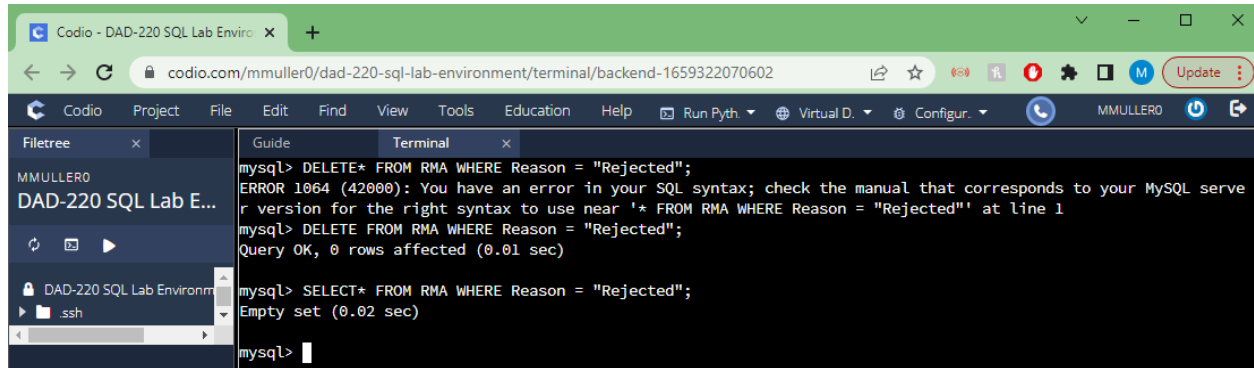
UPDATE RMA SET status = "Complete", step = "Credit Customer Account" WHERE OrderID = 5175;

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.

This query did not delete any records. I'm not sure if this was supposed to be the case but I performed a SELECT* operation afterwards and it says that there are no records in the RMA table where Reason = "Rejected."



```

mysql> DELETE* FROM RMA WHERE Reason = "Rejected";
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 '* FROM RMA WHERE Reason = "Rejected"' at line 1
mysql> DELETE FROM RMA WHERE Reason = "Rejected";
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT* FROM RMA WHERE Reason = "Rejected";
Empty set (0.02 sec)

mysql>

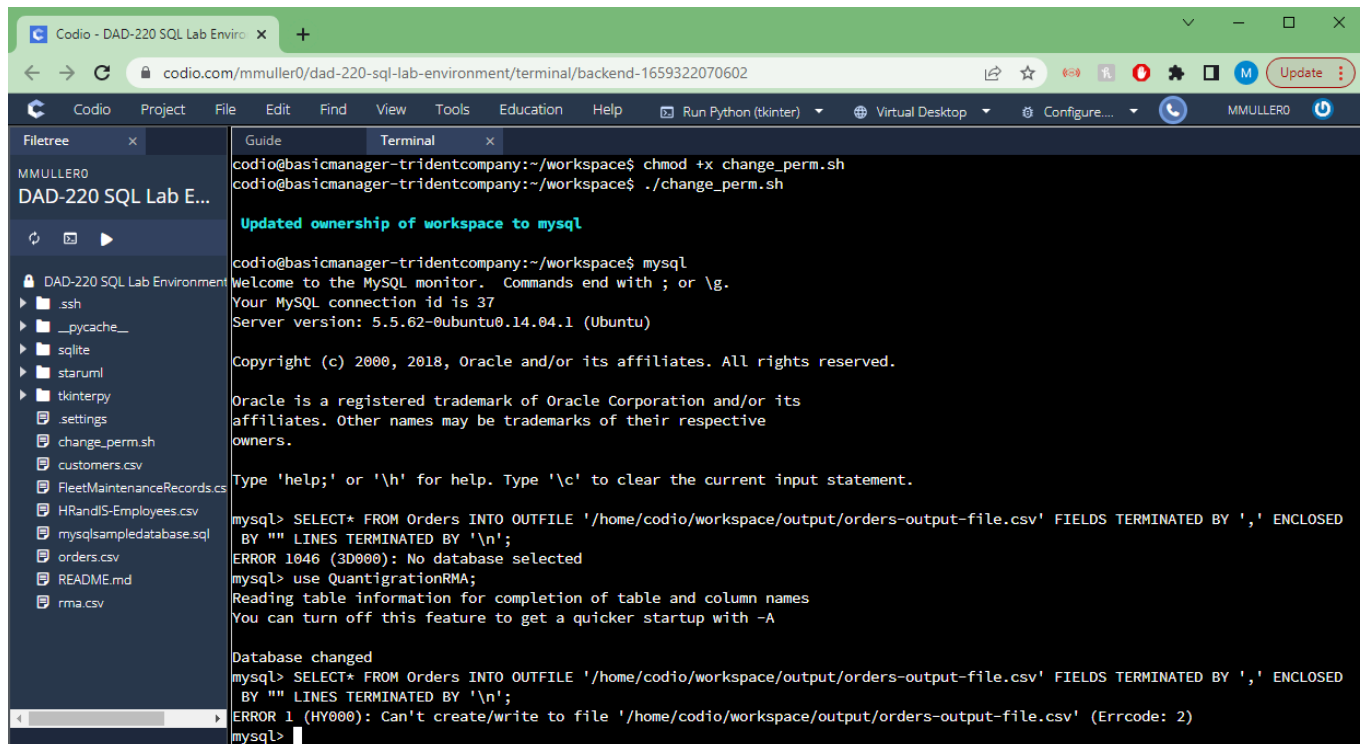
```

DELETE FROM RMA WHERE Reason = "Rejected";
 SELECT* FROM RMA WHERE Reason = "Rejected";

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

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

I believe that I have performed the correct command to create an output file for the Orders table but it is saying that I am unable to create the file. I am not sure how to grant myself permission to do this but I think that the code is correct.



```

codio@basicmanager-tridentcompany:~/workspace$ chmod +x change_perm.sh
codio@basicmanager-tridentcompany:~/workspace$ ./change_perm.sh

Updated ownership of workspace to mysql

codio@basicmanager-tridentcompany:~/workspace$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 37
Server version: 5.5.62-0ubuntu0.14.04.1 (Ubuntu)

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owners.

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

mysql> SELECT* FROM Orders INTO OUTFILE '/home/codio/workspace/output/orders-output-file.csv' FIELDS TERMINATED BY ',' ENCLOSED
BY "" LINES TERMINATED BY '\n';
ERROR 1046 (3D000): No database selected
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> SELECT* FROM Orders INTO OUTFILE '/home/codio/workspace/output/orders-output-file.csv' FIELDS TERMINATED BY ',' ENCLOSED
BY "" LINES TERMINATED BY '\n';
ERROR 1 (HY000): Can't create/write to file '/home/codio/workspace/output/orders-output-file.csv' (Errcode: 2)
mysql>

```

SELECT* FROM Orders INTO OUTFILE '/home/codio/workspace/output/orders-output-file.csv'
 FIELDS TERMINATED BY ',' ENCLOSED BY "" LINES TERMINATED BY '\n';