# DAD 220 Module Four Major Activity Database Documentation

**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.
   1. 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.
   2. Provide the SQL commands you ran against MySQL to complete this successfully in your answer.

A screenshot of a computer program

Description automatically generated

Code used:

LOAD DATA INFILE '/home/codio/workspace/customers.csv'

INTO TABLE Customers

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

LOAD DATA INFILE '/home/codio/workspace/orders.csv'

INTO TABLE Orders

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

LOAD DATA INFILE '/home/codio/workspace/rma.csv'

INTO TABLE RMA

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

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

For each query, include a screenshot of the query and its output. You should also include a 1- to 3-sentence description of the output.

* 1. Write an SQL query that returns the count of orders for customers located only in the city of Framingham, Massachusetts.
     1. How many records were returned? 505 records were returned for customers located in Framingham, MA.

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Description automatically generated

Code used:

SELECT COUNT(\*)

FROM Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID

WHERE UPPER(Customers.city) = 'FARMINGHAM' AND UPPER(Customers.state) = 'MASSACHUSETTS';

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

There were 982 records returned for customers only located in MA.

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Description automatically generated

Code used:

SELECT COUNT(\*)

FROM Customers

WHERE UPPER(Customers.state) = 'MASSACHUSETTS';

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

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

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Description automatically generated

Code used:

INSERT INTO Customers (CustomerID,FirstName,LastName,Street,City,State,ZipCode,Telephone) 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');

* + 1. 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 |

A computer screen shot of a computer program

Description automatically generated

Code used:

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');

* 1. In the Customers table, perform a query to count all records where the city is Woonsocket, Rhode Island.
     1. How many records are in the customers table where the field “city” equals “Woonsocket”? There are a total of 7 records for customers located in Woonsocket, RI.

A computer screen shot of a black screen

Description automatically generated

Code used:

SELECT COUNT(\*)

FROM Customers

WHERE UPPER(Customers.city) = "WOONSOCKET";

* 1. In the RMA database, update a customer’s records.
     1. 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?

A computer screen shot of a black screen

Description automatically generated

Code used:

SELECT status, step

FROM RMA

WHERE OrderID = '5175';

* + 1. 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.

The updated status and step values changed from “Pending” and “waiting customer documentation” to “complete” and “credit customer account.”

A computer screen shot of a black screen

Description automatically generated

Code used:

UPDATE RMA

SET status = 'Complete', step = 'Credit Customer Account'

WHERE OrderID = '5175';

* 1. Delete RMA records.
     1. 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.

There were 38162 records before deleting with reason of “Rejected”. After there are 37566 records left, meaning 596 records were deleted.

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Description automatically generated

Code used:

DELETE FROM RMA

WHERE reason = 'Rejected';

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

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

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Description automatically generated

Code used:

SELECT \* FROM Orders INTO OUTFILE '/home/codio/workspace/orders100.csv' FIELDS TERMINATED BY ',';