# DAD 220 Module Four Major Activity Database Documentation

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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.
   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.

Code:

LOAD DATA INFILE ‘/home/codio/workspace/customers.csv’ INTO TABLE Customers FIELDS TERMINATED BY ‘,’ LINES TERMINATED BY ‘/n’;

LOAD DATA INFILE ‘/home/codio/workspace/orders.csv’ INTO TABLE Orders FIELDS TERMINATED BY ‘,’ LINES TERMINATED BY ‘/n’;

LOAD DATA INFILE ‘/home/codio/workspace/rma.csv’ INTO TABLE RMA FIELDS TERMINATED BY ‘,’ LINES TERMINATED BY ‘/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

Graphical user interface, text

Description automatically generated

Graphical user interface, text

Description automatically generated

Using the code seen above, I was able to filter the orders by the customers that were located specifically in Framingham, Massachusetts. This provided me with 505 results for customers from Framingham, Massachusetts, and the details associated with those customers.

* 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? 982

Graphical user interface

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated with medium confidence

I utilized a similar code to the previous step but removed the city constraint. This displayed for me all customers from Massachusetts, independent of the origin city. As seen above, I found that there were 982 customers from 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 |

Text

Description automatically generated

Like previous lessons, I performed a simple INSERT code to add values to the Customers table for new clients. I found it ironic that we had to add Luke Skywalker to the Customers table because I am certain I added him to another table during a previous assignment. Luckily, people can have the same name since those were not identified as keys in the Quantigration RMA diagram.

* + 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 |

Text

Description automatically generated

Like the previous step, I used INSERT INTO statements to add orders to the order table. I added four new orders which correspond to the customerID’s that I entered in the previous step.

* 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”? 7

Text

Description automatically generated

Using a select statement from the Customers table, I filtered to find only customers from Woonsocket, Rhode Island. This query gave me seven customers from that city and state, as well as their customer information.

* 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?

Status: Pending

Step: Awaiting customer Documentation

Shape

Description automatically generated with low confidence

This was accomplished using the command seen above to find the status and step of the order associated with OrderID number 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.

Status: Complete

Step: Credit Customer Account

Text

Description automatically generated

I was then tasked to update the status and step of the order associated with OrderID 5175. I did this using the code seen above, which changed the status and step to “complete” and “credit customer account” respectively. I viewed my changes to ensure that they were implemented correctly using the same SQL commands that I used in the previous step.

* 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.

Text

Description automatically generated

I then utilized the above code to delete records from RMA where the reason was rejected. Initially, I received an error in my coding because I entered REJECTED instead of ‘REJECTED’. The adjustment in the coding proved to be ok but yielded zero affected rows. This was concerning to me because I was not sure if I completed this step correctly. I made a realization here that before I delete anything from a database or table, I should view what is getting deleted first. If I had viewed the information from RMA where the Reason = ‘REJECTED’ first, then I would see what I am deleting. The results indicate to me that nothing had a reason set to ‘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.

Text

Description automatically generated

So, I omitted some information from my screenshot here, but I had a few errors that took me a while to debug. My INTO OUTFILE statement was incorrect on several attempts because I was trying to access a file location that did not exist; therefore I could not read/write to it. Once I took a closer look at the error and compared it to a previous line of code I entered, I found my error in the OUTFILE location. The code that I entered above worked with an OK query result.