# DAD 220 Module Four Major Activity Template

## Overview

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 the screenshots capture. Size each screenshot and its explanation to fit approximately one-quarter of the page with the description written below the screenshot. Review the Template Screenshot Example linked in the guidelines and rubric for this assignment to see how screenshots for your assignment should look.

Before you begin, follow steps one through four from the Module Three Major Activity Guidelines and Rubric onlyto generate tables for this assignment. Then follow the steps below to complete the activity.

## Organize and Analyze Data in Tables

1. Import the data from each file into tables.
   1. Use the Quantigration RMA database, the three tables you created, and the three CSV files preloaded into Codio.
   2. 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.
      1. Reference notes for this step: Import the CSV File into the MySQL table. Use the following line terminators when importing: \r\n. Do not use IGNORE 1 LINES for data that does not have column headers in the first row.
   3. Provide the SQL commands you ran against MySQL to complete this step successfully.

A screenshot of a computer program

Description automatically generated

This took me a moment to get right because I couldn’t figure out the file path. But then I viewed the files which showed the path in web browser and was able to figure it out. Each of these references the local csv file and then uses commas as the separation of attribute values for any one record. As in finds each value for the record the statement then places them into the named table throughout the query.

1. Write basic queries against imported tables to organize and analyze targeted data. For each query you run in this step, include a screenshot of the query and its output. Also, include a one- to three-sentence explanation.
   1. Write a SQL query that returns the count of orders for customers located only in Framingham, Massachusetts.
      1. This query will use a table join between the Customers and Orders tables. The query will also use a WHERE clause.
      2. Record an answer to the following question: How many records were returned?

A screenshot of a computer program

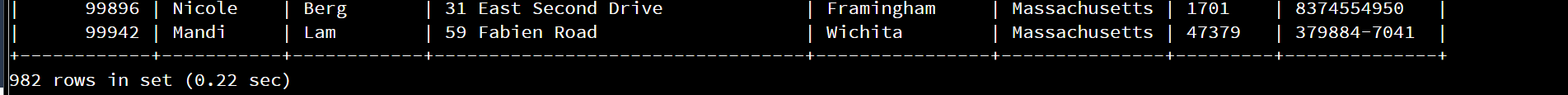
Description automatically generated

This statement will give a count of all Order IDs that are associated with customer IDs that are located within Framingham, MA. A good listen though in this is to do a select statement with a limit on it to test the format of possible abbreviations or fully typed out entries.

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

A black background with white text

Description automatically generated



The total records returned in from the query above along and not easily shown in the screenshot above is 982. The Select Statement grabs everything from the customers table when the state value is Massachusetts for a record.

* 1. 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 | 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 |

A black screen with white text

Description automatically generated

A black screen with white text

Description automatically generated with medium confidence

In the Query above to ensure I had everything correctly entered I made sure that the INSERT INTO Customers portion of the Query knew exactly what attributes I would be inputing and also make the following inserting of values easier to understand for anyone that would need to read it.

**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 screen shot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

This worked almost exactly like the Query that was run for the customers table so I am not going to repeat that information here. But there was an interesting error where the value for an attribute ended up being to long for its assigned data type. Normally I feel you would speak to your project manger, manager or who ever needs to see this data to figure the best ways to shorten it or to get approval to expand the datatype. In this case though I just short handed what made sense to do so. Such as C/F for Copper/Fiber. Making the number and port connect together then the fortening of fiber at the end to fib.

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

A screenshot of a computer screen

Description automatically generated

The count from the screenshot above shows there is 7 records that match the counting select statement of CustomerID within the city of Woonsocket, MA. A counting statement being that is counting how many CustomerIDs match the filter that they are in Woonsocket.

* 1. In the RMA database, update a customer's records.
     1. 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".
        1. What are the current status and step?

A screen shot of a computer

Description automatically generated

This Select statement selects the status and step values from the record with an OrderID of 5175

* + 1. Write a 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.

A screenshot of a computer screen

Description automatically generated

The first query updates the specific values in the record matching 5175 to the Status column being Complete and the Step column being Credit Custoemr Account

* 1. Delete RMA records.
     1. Write a SQL statement to delete all records with a reason of "Rejected".
        1. How many records were deleted? Provide a screenshot of your work.

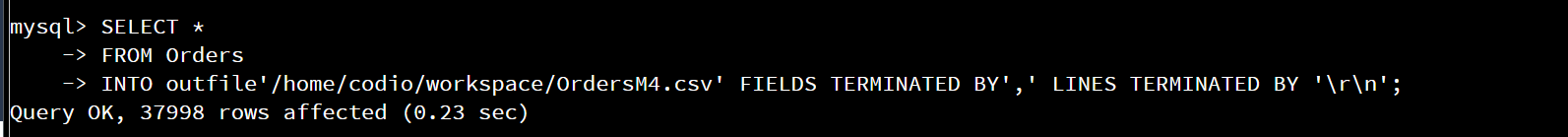
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Description automatically generated

596 rows are deleted with the query deleting from rma all records with a reason that is Rejected.

1. 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.



This query creates a .csv file of all the data inside of the Orders table so it can be used for analysis in other areas such as using Tableau to create visuals.