# 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

Description automatically generated

I had to use TRUNICATE TABLE to ensure there were no duplicate primary key values and the loaded the data again. I then had to disable the foreign key checks and then re-enable after the truncate table. I had to use the REPLACE statement instead of LOAD DATA INFILE to handle the duplicate entries and then used CREATE temporary tables to load data into them and used REPLACE INTO SELECT\* FROM and used DROP the temporary tables and replaced them with the original tables in order to proceed.

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

The SELECT COUNT(\*) FROM customers JOIN Orders o ON c.CustomerID = o.CustomerID WHERE c.City = ‘Framingham’ AND c.State = ‘MA’; showed 0 customers. I then tested my query by INSERT INTO Customers with their VALUES and then Re-ran the queries SELECT COUNT(\*) FROM Customers JOIN WHERE and the SELECT\* FROM WHERE state= ‘MA’ to test if it was running properly. I noticed it successfully worked then moved on.

* 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 screenshot of a computer

Description automatically generated

Since I added two to test my queries you will see two and then I deleted them back to the empty set.

* 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 screenshot of a computer

Description automatically generated

StreetAddress is under a different name in the data as Street for the INSERT INTO Customers table. I also just realized that I created a database with Quantigration\_RMA with an underscore and not QuantigrationRMA I then deleted my old database and lost all of my values. I would have to start alllll over again and I just don’t have time for that right now!

**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 screenshot of a computer

Description automatically generated

The error was that the Description was too long so I chose to shorten the description instead of using varchar.

* 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

Description automatically generated

Again the return was 0 but I checked my queries just in case to make sure they were working. I also used describe Customers; and I was able to retrieve that info.

* 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 screenshot of a computer

Description automatically generated

The Status is Pending and Awaiting customer Documentation.

* + 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 program

Description automatically generated

Status is Complete and Credit Custom 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.

A screenshot of a computer

Description automatically generatedAccording to this entry I have 0 rejected but I know that isn’t true because again my data was deleted from my previous work. I also have three other databases that need merging (Vdeliberto,deliberto, and Deliberto) so I’m guessing they got lost in one of those and that is why my information is incomplete.

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.

A screenshot of a computer

Description automatically generated

I had to rename my file name to avoid conflict.