# Valerie Montalvo

# DAD 220 Database Documentation Template

Complete these steps as you work through the directions for Project One. 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 located in the Project One Supporting Materials for assistance.

## Step One: Create a Database

1. Navigate to your online integrated development environment (IDE). List and record the SQL commands that you used to complete this step here:

Text

Description automatically generated

*To get to the mysql IDE, I typed in ‘mysql’ in Codio.*

1. Create a database schema called QuantigrationUpdates. List out the database name. Provide the SQL commands you ran against MySQL to successfully complete this in your answer:

Text

Description automatically generated

*I used CREATE SCHEMA, which is a synonym in mySQL for CREATE DATABASE. Data bases are shown here with the new QuantigrationUpdates schema.*

1. Using the entity relationship diagram (ERD) as a reference, create the following tables with the appropriate attributes and keys:
   1. A table named **Customers** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

Graphical user interface, text

Description automatically generated

*First, I changed the used database to QuantigrationUpdates, then used the above code to create the customers table according to the ERD. The newly created table is shown by the DESCRIBE statement.*

* 1. A table named **Orders** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

Text

Description automatically generated

*I created the Orders table using the code above, according to the ERD. The DESCRIBE statement shows the table.*

* 1. A table named **RMA** in the QuantigrationUpdates database, as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

A picture containing text, scoreboard, plaque

Description automatically generated

*I created the RMA table using the code above, according to the ERD. The DESCRIBE statement shows the table.*

## Step Two: Load and Query the Data

1. **Import the data from each file into tables.** 
   * Use the QuantigrationUpdates database, the three tables you created, and the three CSV files preloaded into Codio.
   * Use the import utility of your database program to load the data from each file into the table of the same name. You will perform this step three times, once for each table.

Text

Description automatically generated

*I loaded the data from the CSV files into their respective tables by using the code above.*

1. **Write basic queries against imported tables to organize and analyze targeted data.** For each query, replace the bracketed text with a screenshot of the query and its output. You should also include a 1- to 3-sentence description of the output.
   * 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?

Text

Description automatically generated

*I used the code above to select the count of Orders from Framingham, MA. In this case, the count was 505.*

* + 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 who are located in Massachusetts.
    2. Record an answer to the following question: How many records were returned?

Text

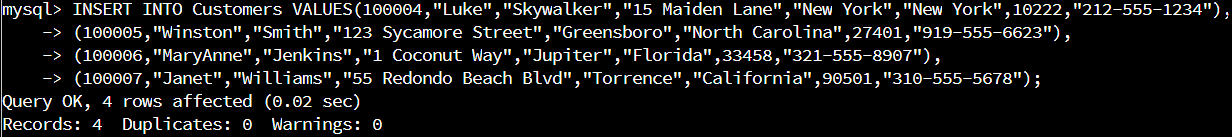
Description automatically generated

*I used the code above to select all of the records for customers located in MA. As there were 982 records returned, the screenshot above is just a snippet.*

* + Write a SQL query to insert four new records into the Orders and Customers tables using the following data:

**Customers Table**

| **CustomerID** | **FirstName** | **LastName** | **StreetAddress** | **City** | **State** | **ZipCode** | **Telephone** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 100004 | Luke | Skywalker | 15 Maiden Lane | New York | NY | 10222 | 212-555-1234 |
| 100005 | Winston | Smith | 123 Sycamore Street | Greensboro | NC | 27401 | 919-555-6623 |
| 100006 | MaryAnne | Jenkins | 1 Coconut Way | Jupiter | FL | 33458 | 321-555-8907 |
| 100007 | Janet | Williams | 55 Redondo Beach Blvd | Torrence | CA | 90501 | 310-555-5678 |



*I used the code above to insert the required records into the Customers table.*

**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 picture containing text

Description automatically generated

*I used the code above to insert the required records into the Orders table. There was 1 warning as the description for the ADV-48-10F was long for the VARCHAR(50) datatype.*

* + 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”?

Timeline

Description automatically generated with low confidence

*I used the code above the select the count of records for Woonsocket, RI. In this case, there are 7.*

* + 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 picture containing timeline

Description automatically generated

*I used the code above to select the status and step for Order 5175. In this case, it is Pending and Awaiting customer Documentation.*

* + 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?

Text

Description automatically generated

*I used the UPDATE statement above the update the step and status for order 5175. The updated status and step is shown by the SELECT statement, which is Complete and Credit Customer.*

* + Delete RMA records.
    1. Write an SQL statement to delete all records with a reason of “Rejected.”
       1. How many records were deleted?

Text

Description automatically generated

*I used the code above to delete all records with a reason of Rejected from the RMA table. There were a total of 596 records deleted.*

1. **Update your existing tables** from “Customer” to “Collaborator” using SQL based on this change in requirements. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:
   1. Rename all instances of “Customer” to “Collaborator.”

Graphical user interface, text

Description automatically generated

*I used CREATE OR REPLACE VIEW to create a new view of the Customers table as Collaborators, with CustomerID replaced with CollaboratorID. The view is shown by the DESCRIBE statement.*

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 that has a .csv extension.

A screenshot of a computer

Description automatically generated

*I used the SELECT statement with INTO OUTFILE to send the contents of the Orders table into a CSV file named QuantigrationOrders. The new CSV file is shown in the upper left corner, in the file tree.*