# DAD 220 Module Three Major Activity Database Documentation 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 they show. 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 help.

## Create a Database

1. In your integrated development environment (IDE), **create a database schema** called QuantigrationRMA. List out the database name. Provide the SQL commands you ran to successfully complete this in your answer, then connect to it:

Text

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Commands: create database QuantigrationRMA;

show databases;

use QuantigrationRMA;

These commands create the database QuantigrationRMA, show all databases in the path, and connect to the QuantigrationRMA database.

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 QuantigrationRMA database as defined on the project ERD. Provide the SQL commands you ran against MySQL to complete this successfully in your answer:

Text

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Commands: create table Customers (CustomerID INT PRIMARY KEY, FirstName VARCHAR(25), LastName VARCHAR(25), Street VARCHAR(50), City VARCHAR(50), State VARCHAR(25), ZipCode INT, Telephone VARCHAR(15));

show tables;

describe Customers;

The first line creates the table Customers with CustomerID being the primary key with the type integer, then all the others are field name then type. Show table shows all the tables in the database QuantigrationRMA, and describe Customers shows the information on the table Customers.

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

Text

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Commands: create table Orders (OrderID INT PRIMARY KEY, CustomerID INT, SKU VARCHAR(20), Description VARCHAR(50), FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID));

show tables;

describe Orders;

The first line creates the table Orders with OrderID being the primary key with the type integer, then all the others are field name then type. FOREIGN KEY sets (CustomerID) to the foreign key and REFERENCES points to table Customers and field (CustomerID). Show table shows all the tables in the database QuantigrationRMA, and describe Orders shows the information on the table Orders.

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

Text

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Commands: create table RMA (RMAID INT PRIMARY KEY, OrderID INT, Step VARCHAR(50), Status VARCHAR(15), Reason VARCHAR(15), FOREIGN KEY (OrderID) REFERENCES Orders(OrderID));

show tables;

describe RMA;

The first line creates the table RMA with RMAID being the primary key with the type integer, then all the others are field name then type. FOREIGN KEY sets (OrderID) to the foreign key and REFERENCES points to table Orders and field (OrderID). Show table shows all the tables in the database QuantigrationRMA, and describe RMA shows the information on the table RMA.

1. Manually **add 10 records** into the **Customers table**. The data can be made up for now, as you you’ll populate all three tables later from the provided CSV files.

Graphical user interface, text

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Commands: INSERT INTO Customers VALUES (10, ‘Aitana’, ‘Parson’, ‘955 Schmitt Roads’, ‘Anibal’, ‘MI’, 62115, ‘451-796-5982’); X10 with other values

select \* from Customers;

Inserts 10 rows of customer values into the Customers table, and then displays the table Customers with all the values input.

1. Create a view from the **existing Customers table** by using the SQL command provided belowto say "Collaborators." The view should show all instances of "Customer" renamed as "Collaborator."

A screenshot of a computer

Description automatically generated with medium confidence

Commands: CREATE VIEW Collaborator AS

SELECT CustomerID AS CollaboratorID, FirstName, LastName, Street, City, State, ZipCode, Telephone

FROM Customers;

DESCRIBE Collaborator;

CREATE VIEW \_\_\_ AS is the command to create a view, and Collaborator is the name of the view.

SELECT is the command to include the column in the view you are creating, and CustomerID AS CollaboratorID renames the column CustomerID to CollaboratorID. Since the other columns don’t include the word customer we don’t need to rename them so they are called as the original column names.

FROM Customers tells the program to pull the values out of the table Customers for the view Collaborators.

DESCRIBE Collaborator shows all the fields and types in the view Collaborator

Text

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Command: SELECT \* FROM Collaborator LIMIT 5;

Displays the first 5 rows form the Collaborator view