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**DAD-220**

## Step One: Create a Database

1. Navigate to your online integrated development environment (IDE). Here, you will need to write the proper SQL commands in command line to create tables that demonstrate relationships based on the entity relationship diagram. List and record the SQL commands that you used to complete this step here:
2. 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:

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1. Using the 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:

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* 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:

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* 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:

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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.”

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## 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.   
       
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2. **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 brief, 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?

The resultant table contains the count of people, 505, in the city of Framingham, MA.

* + 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?

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Description automatically generated with medium confidence  
  
982 customers are located in Massachusetts.

* + Write a 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 | 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 |

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Description automatically generated with medium confidence  
insert into Customers

Values (100004, 'Luke', 'Skywalker', '15 Maiden Lane', 'New York', 'New York', 10222, '212-555-1234'),

(100005, 'Winston', 'Smith', '123 Sycamore Street', 'Greensboro', 'North Carolina', 27401, '919-555-6623'),

(100006, 'MaryAnne', 'Jenkins', '1 Coconut Way', 'Jupiter', 'Florida', 33458, '321-555-8907'),

(100007, 'Janet', 'Williams', '55 Redondo Beach Blvd', 'Torrence', 'California', 90501, '310-555-5678');  
  
The code added four vales/rows into the Customers table which are shown with the query:  
select \*

from Customers

where CollaboratorID IN (100004, 100005, 100006, 100007);

* + 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 |

insert into Orders

Values (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');  
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* + 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”?

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There are 7 customers in the town of Woonsocket.

* + 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?  
            
          Current Status and Step are ‘Pending’ and ‘Awaiting customer Documentation’  
            
          select Status, Step

from RMA

where OrderID = 5175;

Text

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* + 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?

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* + Delete rma records.
    1. Write an SQL statement to delete all records with a reason of “Rejected.”
       1. How many records were deleted?  
            
          595 rows were deleted using this command:  
            
          delete from RMA

where Reason LIKE '%Rejected%';

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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.

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