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DAD-220 Intro to Struct Database Env

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# DAD 220 Module Four Major Activity Database Documentation Template

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 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 for assistance.

**Follow Steps 1 through 4 from the Module Three Major Activity *only* to generate tables for this assignment.**

1. Import the data from each file into tables.
   1. **A computer screen shot of a black screen

      Description automatically generated**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.
   2. Provide the SQL commands you ran against MySQL to complete this successfully in your answer.

Command used:

LOAD DATA INFILE '/home/codio/workspace/customers.csv'

INTO TABLE Customers;

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n';

LOAD DATA INFILE '/home/codio/workspace/orders.csv'

INTO TABLE Orders

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n';

LOAD DATA INFILE '/home/codio/workspace/rma.csv'

INTO TABLE RMA

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n';

These commands imported files into the tables customer, orders, and RMA.

1. Write basic queries against imported tables to organize and analyze targeted data.

For each query, include a screenshot of the query and its output. You should also include a 1- to 3-sentence description of the output.

* 1. 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?

A screen shot of a computer

Description automatically generatedCommand used:

SELECT COUNT(\*)

FROM Customers

INNER JOIN Orders on Customers.CustomerID = Orders.CustomerID

WHERE (Customers.City) = "Framingham" AND (Customers.State) = 'Massachusetts';

This command allowed me to narrow customers down to the city of Framingham. The query returned 505 records.

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

A computer screen with white text

Description automatically generatedCommand used:

SELECT COUNT(\*)

FROM Customers

WHERE Customer.state = 'Massachusetts';

This command allowed me to get the amount of customers from the state of Massachusetts. The command returned a total of 982 customers.

* 1. Write an 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 | 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 screen shot of a computer

Description automatically generatedCommand used: INSERT INTO Customers

VALUES

(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');

This command allowed me to insert 4 new customers into the customer table.

* + 1. A computer screen with white text

       Description automatically generatedOrders 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 |

Command used: INSERT INTO Orders

VALUES (1204305,100004,'ADV-24-10C','Advanced Switch 10GigE Copper 4 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 SPF+ 48 port');

This command allowed me to update the orders table with new orders.

* 1. In the Customers table, perform a query to count all records where the city is Woonsocket, Rhode Island.
     1. A black screen with white text

        Description automatically generatedHow many records are in the customers table where the field “city” equals “Woonsocket”?

Command used:

SELECT COUNT(\*)

FROM Customers

WHERE City = 'Woonsocket';

This command allowed me to return the number of customers in the city of Woonsocket. The return came out to be 7.

* 1. 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 screenshot of a computer program

Description automatically generatedCommand used:

SELECT Status, Step

FROM RMA

WHERE OrderID = 5175;

This command allowed me to select the status and the next step to an order. The current status is “Pending” and the step details is “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. A screenshot of a computer program

          Description automatically generatedWhat are the updated **status**and **step**values for this record? Provide a screenshot of your work.

Commands used:

UPDATE RMA

SET Status = 'Complete', Step = 'Credit Customer Account'

WHERE OrderID = 5175;

SELECT Status, Step

FROM RMA

WHERE OrderID = 5175;

These commands allowed me to update RMA Status and Step. The new Status is “Complete” and the new Step updated to “Credit Customer Account”.

* 1. Delete RMA records.
     1. Write an 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

Command used:

DELETE FROM RMA

WHERE Reason LIKE '%Rejected%';

This command allowed me to delete all the records matching reason Rejected. There were 596 records deleted.

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 with a .csv extension.

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Description automatically generated

A screenshot of a computer

Description automatically generated

Command used:

SELECT \*

FROM Orders

INTO OUTFILE '/home/codio/workspace/Module4\_Major\_Activity.csv'

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n';

This command creates a query that gathers all the information from all the columns from the Orders table and creates an output file named “Module4\_Major\_Activity” with a .csv extention.