Load and Query the Data

DAD 220 Intro to Struct Database Environment

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# DAD 220 Module Four Major Activity Database Documentation Template

**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. Text

      Description automatically generatedUse 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.

A screenshot of a computer

Description automatically generatedThe command will import customer data from each file into the tables. The data will import successfully and will be used later in this assignment.

A screenshot of a computer

Description automatically generatedThe command will import orders data from each file into the tables. The data will import successfully and will be used later in this assignment.

The command will import rma data from each file into the tables. The data will import successfully and will be used later in this assignment.

* 1. Provide the SQL commands you ran against MySQL to complete this successfully in your answer.

Customer.csv

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

INTO TABLE Customers

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

Orders.csv

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

INTO TABLE Orders

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

Rma.csv

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

INTO TABLE RMA

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\r\n';

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?

The return amount is 505 customers were returned. As the table indicates 505 out of 37994 were in the table. The query checks the number existing on Framingham, MA.

Text

Description automatically generated

* 1. Write an SQL query to select all 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 in Massachusetts.

**SELECT COUNT(\*) FROM Customers WHERE Customers.State = ‘MASSACHUSETTS’;**

* + 1. Text

       Description automatically generatedRecord an answer to the following question: How many records were returned?

The records shows that 932 customers live in Massachusetts. The command will select all the customers selected from Massachusetts and not a specific city. COUNT function allow us to get the total number of the records and WHERE was used to filter the customer state.

* 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 |

Text

Description automatically generatedText

Description automatically generated

A total of 4 rows were affected, so 4 record were added to the Customers Table. The commands allow us to insert all the new customers at once. To show the record inserted into the table I use SHOW command and WHERE look for specific data.

* + 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 |

Text

Description automatically generated

The command INSERT allow us to insert values into the Orders Table and I decide to add them independently to verify each one of them. After adding all the data into the Orders Table I display the table the table with the command SELECT to pick the table and WHERE to filter into a specific data.

* 1. 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”?

Text

Description automatically generated

The command SELECT allow to have access to the table which in this case would be Customers, and WHERE help us to filter the data and select the need. There are 7 records of customers where the field city is Woonsocket.

* 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. Graphical user interface, text

           Description automatically generatedWhat are the status and step?

The SELECT command allow access to the table which status is pending and defective. This allows us to find the correct record using FROM and WHERE to filter data from RMA.

* + 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? Provide a screenshot of your work.

Text

Description automatically generated

The RMA will be updated by using the command UPDATE. First the status would be change to ‘Complete’ and the step would be changed to ‘Credit Customer Account’ which the OrderId is 5175. To verify the update was correctly used I verify displaying the table.

* 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.

Text

Description automatically generated

The command DELETE allow us to delete from certain table, which in this case is from RMA. This shows that there is no records with status “Rejected”. Also, this prove that there are no “Rejected “data into RMA.

1. Create an output file of the required query results.

Text

Description automatically generatedWrite an SQL statement to list the contents of the orders table and send the output to a file with a .csv extension.

Creating an output file I will use SELECT to select data and FROM to indicates that would be in the Orders table. INTO OUTFILE will specify which folder would be destinated for the CSV file. The file would be populated with 37997 records.