



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

```
mysql> use QuantigrationRMA;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_QuantigrationRMA |
+-----+
| Collaborator                |
| Customers                   |
| Orders                      |
| RMA                         |
+-----+
4 rows in set (0.00 sec)

mysql> LOAD DATA INFILE '/home/codio/workspace/customers.csv'
-> INTO TABLE Customers
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\n';
Query OK, 37994 rows affected (0.36 sec)
Records: 37994 Deleted: 0 Skipped: 0 Warnings: 0

mysql> LOAD DATA INFILE '/home/codio/workspace/orders.csv'
-> INTO TABLE Orders
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\n';
Query OK, 37994 rows affected, 4173 warnings (0.39 sec)
Records: 37994 Deleted: 0 Skipped: 0 Warnings: 4173

mysql> LOAD DATA INFILE '/home/codio/workspace/rma.csv'
-> INTO TABLE RMA
-> FIELDS TERMINATED BY ','
-> LINES TERMINATED BY '\n';
Query OK, 38162 rows affected (0.38 sec)
Records: 38162 Deleted: 0 Skipped: 0 Warnings: 0

mysql> 
```



[To load the .csv files, I used the LOAD INFILE query to transfer the given csv file into the correct table. I then used FIELDS and LINES TERMINATED to determine how the information in the file would be split amongst the table, ',' refers to the comma separators for each row and \n\ refers to the spaces in the file for each column]

2. **Write basic queries** against imported tables to organize and analyze targeted data.
 - A. 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.
 - B. Write an SQL query that returns the count of orders for customers located only in the city of Framingham, Massachusetts.
 - i. How many records were returned?

```
mysql> SELECT *
-> FROM Customers
-> INNER JOIN Orders
-> ON Orders.CustomerID = Customers.CustomerID
-> WHERE City = 'Framingham' AND State = 'Massachusetts';
```

CustomerID	FirstName	LastName	StreetAddress	City	State	ZipCode	Telephone	OrderID	CustomerID	SKU
223	82590	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	450-4178835			
	76311	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	mingham	Massachusetts	1701	9552763483			
	92499	ADV-48-10F	Advanced Switch 10 GigE Copper/Fiber 44 port	coppe	achusetts	1701	881-8742910			
	89710	ENT-24-10F	Enterprise Switch 10GigE SFP+ 24 Port	amingham	Massachusetts	1701	917-6765830			
	97949	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	amingham	Massachusetts	1701	432-251-7021			
2387	84708	ADV-24-10C	Advanced Switch 10GigE Copper 24 port	mingham	Massachusetts	1701	7537187456			
	86610	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	amingham	Massachusetts	1701	283-916-3231			
	85769	ENT-24-10F	Enterprise Switch 10GigE SFP+ 24 Port	amingham	Massachusetts	1701	942-0295155			
	80053	ADV-48-10F	Advanced Switch 10 GigE Copper/Fiber 44 port	coppe	achusetts	1701	504-7832104			
	76861	ENT-48-10F	Enterprise Switch 10GigE SFP+ 48 port	mingham	Massachusetts	1701	4544027541			
	77961	ENT-24-10F	Enterprise Switch 10GigE SFP+ 24 Port	amingham	Massachusetts	1701	157-830-0036			
	99112	ENT-48-40F	Enterprise Switch 40GigE SFP+ 48 port	mingham	Massachusetts	1701	706747-9328			
	91445	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	mingham	Massachusetts	1701	922-9322667			
	83414	ENT-48-40F	Enterprise Switch 40GigE SFP+ 48 port	amingham	Massachusetts	1701	151-203-0588			
	76930	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	270-8782351			
	83173	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	4446039659			
	77276	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	7710225112			
	77712	ENT-48-10F	Enterprise Switch 10GigE SFP+ 48 port	mingham	Massachusetts	1701	1324976858			
	88491	ENT-48-40F	Enterprise Switch 40GigE SFP+ 48 port	ingham	Massachusetts	1701	3779281550			
	93786	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	mingham	Massachusetts	1701	602181-1198			
6481	89831	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	amingham	Massachusetts	1701	789-540-1821			
	76050	ADV-24-10C	Advanced Switch 10GigE Copper 24 port	amingham	Massachusetts	1701	492-0733373			
	85043	BAS-48-1 C	Basic Switch 10/100/1000 BaseT 48 port	amingham	Massachusetts	1701	344-387-3316			
	95440	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	749230-4819			
	92084	ENT-24-10F	Enterprise Switch 10GigE SFP+ 24 Port	amingham	Massachusetts	1701	3501822941			
	74861	ADV-24-10C	Advanced Switch 10GigE Copper 24 port	amingham	Massachusetts	1701	743-629-2476			
	85148	ENT-48-10F	Enterprise Switch 10GigE SFP+ 48 port	amingham	Massachusetts	1701	247-9418495			
	93481	BAS-08-1 C	Basic Switch 10/100/1000 BaseT 8 port	mingham	Massachusetts	1701	438-3694368			
	99676	ADV-24-10C	Advanced Switch 10GigE Copper 24 port	amingham	Massachusetts	1701	212-120-1832			
	78966	ADV-48-10F	Advanced Switch 10 GigE Copper/Fiber 44 port	coppe	achusetts	1701	910-2428980			
	76550	ENT-48-10F	Enterprise Switch 10GigE SFP+ 48 port	amingham	Massachusetts	1701	632-2496613			

[I used an INNER JOIN to get info from both Customers and Orders table. Using the ON statement, I pulled the customersID from corresponding the customerID column. Then, as specified, I used a WHERE statement to only show the customers that had Framingham, MA connected to their account. **This table showed 505 records]**



C. Write an SQL query to select all of the customers located in the state of Massachusetts.

- Use a WHERE clause to limit the number of records in the Customers table to only those that are located in Massachusetts.
- Record an answer to the following question: How many records were returned?

```
mysql> SELECT *
-> FROM Customers
-> WHERE State = 'Massachusetts';
```

CustomerID	FirstName	LastName	StreetAddress	City	State	ZipCode	Telephone
74086	Donna	Hanson	977 West White Milton Drive	Framingham	Massachusetts	1701	4732778731
74091	Micheal	Webster	75 Second Freeway	Raleigh	Massachusetts	34903	449-7371707
74101	Harvey	Cisneros	234 North Rocky Fabien Freeway	Framingham	Massachusetts	1701	555-9792825
74107	Irma	Kemp	334 Rocky Milton Boulevard	Memphis	Massachusetts	16289	143-8522856
74186	Todd	Bishop	93 Hague Avenue	Framingham	Massachusetts	1701	774-2917170
74188	Roberta	Roman	199 Old Blvd.	Honolulu	Massachusetts	11283	973445-7249
74212	Jerrold	Powell	19 Milton Freeway	Framingham	Massachusetts	1701	543-895-2327
74241	Sergio	Meza	411 Cowley St.	Framingham	Massachusetts	1701	299360016
74252	Sidney	Cohen	42 South Second St.	Framingham	Massachusetts	1701	094485-6154
74269	Claire	Carrillo	875 North Hague Street	Framingham	Massachusetts	1701	2769744392
74290	Wendi	Ho	69 Old St.	Framingham	Massachusetts	1701	772-9433385
74305	Leslie	Haney	455 Fabien Way	Denver	Massachusetts	59001	087-4245464
74308	Tracie	Suarez	689 Clarendon Way	Madison	Massachusetts	1045	065-791-0436
74374	Leon	Boone	21 Milton St.	Fresno	Massachusetts	79290	488-2576713
74431	Kari	Lucero	738 North Nobel Avenue	Columbus	Massachusetts	46042	280-0149072
74433	Sonny	Gibbs	133 Oak Parkway	Framingham	Massachusetts	1701	951-1012320
74435	Anitra	Myers	785 White Milton Drive	Framingham	Massachusetts	1701	319-756-6387
74439	Larry	Huffman	90 North Milton Drive	Framingham	Massachusetts	1701	001-069-1210
74457	Amelia	Fry	11 East Oak Way	Framingham	Massachusetts	1701	295-717-1192
74472	Kara	Mc Lean	906 Milton Drive	Santa Ana	Massachusetts	58490	241-0631202
74500	Antonio	Mc Donald	931 Clarendon Road	Fremont	Massachusetts	5860	939843-1729
74501	Simon	Hanna	20 North Green Nobel Freeway	Garland	Massachusetts	46144	NULL
74502	Glenn	Woodard	35 South New Boulevard	Grand Rapids	Massachusetts	901	038-385-1358
74525	Miriam	Monroe	39 East Clarendon Road	Miami	Massachusetts	31060	665-190-6538
74530	Jean	Gilmore	69 White First Drive	Framingham	Massachusetts	1701	9806540568
74533	Ana	Mccall	271 East Rocky New Drive	Framingham	Massachusetts	1701	5952243997
74534	Ruth	Wang	912 Milton Road	Phoenix	Massachusetts	41097	131-896-5893
74538	John	Dyer	77 Oak Freeway	Framingham	Massachusetts	1701	046805-5330
74555	Sharon	Hoffman	968 Green Nobel Way	Framingham	Massachusetts	1701	135692-7397
74592	Alfredo	Baxter	79 White First St.	Framingham	Massachusetts	1701	2286871249
74611	Tania	Prince	23 White Milton St.	Framingham	Massachusetts	1701	030-557-6157
74659	Patrice	Myers	164 Milton Way	Framingham	Massachusetts	1701	845-9221183

[I used the SELECT * statement to get all records in the Customers table, I then used the WHERE statement to limit the results to only those who have a state of Massachusetts in their account. **This table showed 982 records.**]



- D. Write an SQL query to insert four new records into the Orders and Customers tables using the following data:

i. 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

```
mysql> INSERT INTO Customers VALUES
-> (100004, 'Luke', 'Skywalker', '17 Maiden Lane', 'New York', 'New York', '10222', '212-555-1234'),
-> (100005, 'Winston', 'Smith', '128 Sycamore Street', 'Greensboro', 'North Carolina', '27401', '919-555-6623'),
-> (100006, 'MaryAnne', 'Jenkins', '2 Coconut Way', 'Jupiter', 'Florida', '33458', '321-555-8907'),
-> (100007, 'Janet', 'Williams', '58 Redondo Beach Blvd', 'Torrence', 'California', '90501', '310-555-5678');
Query OK, 4 rows affected (0.02 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql>
```

[Using INSERT VALUES, I inserted the given values into the Customers table. 4 rows were affected because I added 4 records.]



ii. 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

```
Records: 4  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Orders VALUES
-> (1204305, 100004, 'ADV-24-10C', 'Advanced Switch 10GigE Copper 24 port'),
-> (1204306, 100005, 'ADV-48-10F', 'Advanced Switch 10GigE 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');
Query OK, 4 rows affected, 1 warning (0.02 sec)
Records: 4  Duplicates: 0  Warnings: 1

mysql> 
```

[I used INSERT VALUES again to add the given records into the Orders table, 4 rows were affected again because there were 4 records added]



- E. In the Customers table, perform a query to count all records where the city is Woonsocket, Rhode Island.
- i. How many records are in the customers table where the field “city” equals “Woonsocket”?

```
mysql> SELECT *
-> FROM Customers
-> WHERE City = 'Woonsocket' AND State = 'Rhode Island';
```

CustomerID	FirstName	LastName	StreetAddress	City	State	ZipCode	Telephone
63645	Perry	Adams	414 Milton Blvd.	Woonsocket	Rhode Island	12743	092335-3806
76386	Deborah	Rogers	79 Cowley St.	Woonsocket	Rhode Island	88772	885599-8909
84303	Amelia	Morris	427 East Second Road	Woonsocket	Rhode Island	23834	771-472-6523
84338	Sherrie	Nelson	59 Green Fabien St.	Woonsocket	Rhode Island	24151	509180-1668
85795	Liza	Long	68 West Rocky Milton Parkway	Woonsocket	Rhode Island	52703	386-257-0321
86457	Jana	Torres	54 First Boulevard	Woonsocket	Rhode Island	47278	1117277624
94895	Kendra	Bell	847 West Rocky Second Boulevard	Woonsocket	Rhode Island	51941	177-7490992

```
7 rows in set (0.02 sec)

mysql>
```

[Using SELECT * to select all information from Customers, I used WHERE to limit the results to only those in Woonsocket Rhode Island. **7 records were returned.**]

- F. In the RMA database, update a customer's records.
- i. 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?

```
mysql> SELECT *
-> FROM RMA
-> WHERE OrderID = 5175;
```

RMAID	OrderID	Step	Status	Reason
31405	5175	Awaiting customer Documentation	Pending	Defective

```
1 row in set (0.00 sec)

mysql>
```

[I used the SELECT statement to pull records from RMA that had an OrderID of 5175. Here, Step equals "Awaiting customer documentation", and Status is pending.]

- ii. 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.

```
mysql> UPDATE RMA
  -> SET Status = 'Complete', Step = 'Credit Customer Account'
  -> WHERE OrderID = 5175;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT *
  -> FROM RMA
  -> WHERE OrderID = 5175;
```

RMAID	OrderID	Step	Status	Reason
31405	5175	Credit Customer Account	Complete	Defective

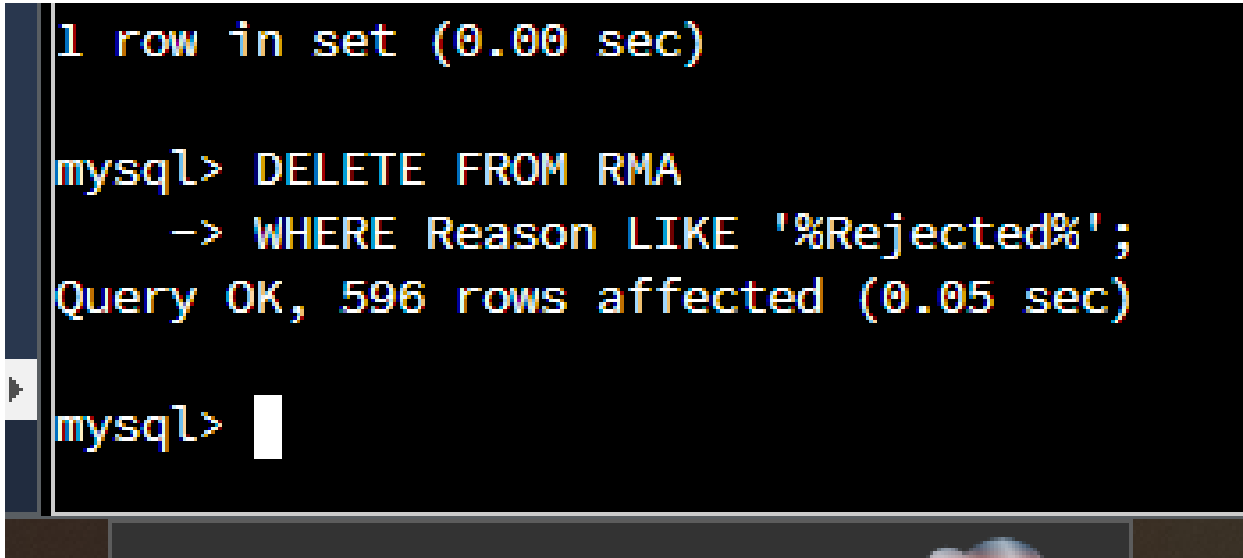
```
1 row in set (0.00 sec)

mysql>
```

[Using UPDATE and SET, I changed the rows status and step in the RMA table of the orderID 5175. The new value of step is "credit customer account", and status now equals complete]

G. Delete RMA records.

- i. 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.



```

1 row in set (0.00 sec)

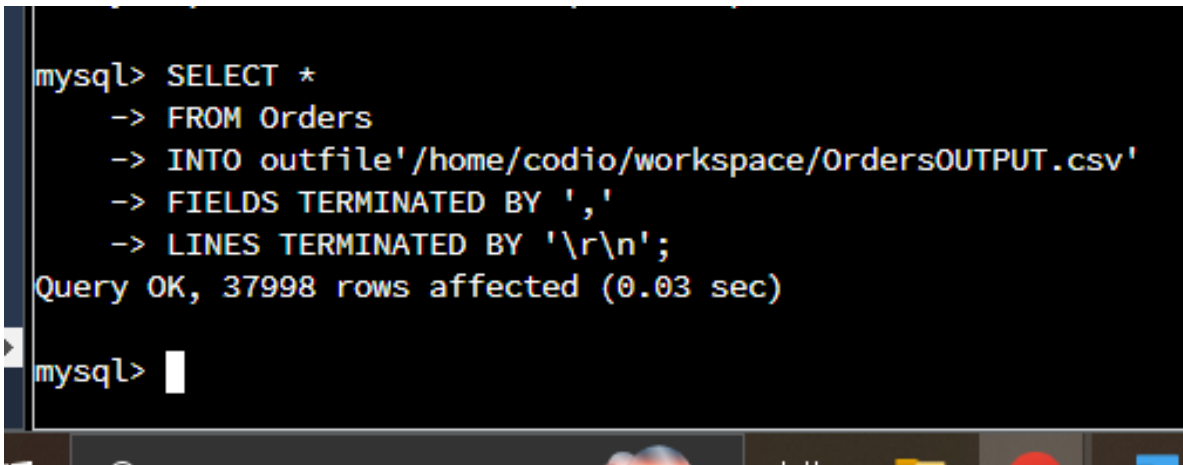
mysql> DELETE FROM RMA
      -> WHERE Reason LIKE '%Rejected%';
Query OK, 596 rows affected (0.05 sec)

mysql>
  
```

[Using DELETE, I deleted records that were "Rejected" from the RMA table. **596 records were deleted.**]

3. **Create an output file** of the required query results.

- A. Write an SQL statement to list the contents of the orders table and send the output to a file with a .csv extension.



```

mysql> SELECT *
      -> FROM Orders
      -> INTO outfile '/home/codio/workspace/OrdersOUTPUT.csv'
      -> FIELDS TERMINATED BY ','
      -> LINES TERMINATED BY '\r\n';
Query OK, 37998 rows affected (0.03 sec)

mysql>
  
```

[I used OUTFILE to output the information in the Orders table into a csv file called "OrdersOUTPUT". By using FIELDS AND LINES TERMINATED, I told the compiler how to separate the records in the file.]