

Government Engineering College, Thrissur  
CS333– Application Software Development Lab  
Documentation -  
Exp 2 – DML Commands

Date of Submission  
14 September 2020

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# Experiment 2

## AIM

Performing DML Commands like Insertion, deletion, Modification, Altering and updating based on conditions.

## Description

Insertion, Deletion, Modification etc.. on the table created in the Exp 1. Here we will be using the SQL Commands like INSERT, DELETE, UPDATE, ALTER on the tables to query the data from the tables created in the first part of this project.

## Output / Screenshots

(7 Pages)

```
mysql> show tables;
+-----+
| Tables_in_open_ppm |
+-----+
| Consultant_Technologies |
| Consultants            |
| Contacts               |
| Customers              |
| Designations           |
| Project_Resources       |
| Project_Technologies    |
| Project_Transaction     |
| Projects                |
| Technology              |
+-----+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Designations` (`ID`, `Grade`, `Designation`) VALUES
-> (1, '1', 'CEO'),
-> (2, '2', 'Accounts Manager'),
-> (3, '2', 'Design Manager'),
-> (4, '2', 'Project Manager'),
-> (5, '2', 'Marketing Manager'),
-> (6, '3', 'Web Developer'),
-> (7, '1', 'CFO'),
-> (8, '3', 'Android Developer'),
-> (9, '3', 'Data Analyst');
Query OK, 9 rows affected (0.05 sec)
Records: 9 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Designations;
+-----+-----+-----+
| ID | Grade | Designation |
+-----+-----+-----+
| 1 | 1 | CEO |
| 2 | 2 | Accounts Manager |
| 3 | 2 | Design Manager |
| 4 | 2 | Project Manager |
| 5 | 2 | Marketing Manager |
| 6 | 3 | Web Developer |
| 7 | 1 | CFO |
| 8 | 3 | Android Developer |
| 9 | 3 | Data Analyst |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Consultants` (`ID`, `name`, `phone`, `email`, `presentAddress`, `pAddress`, `highest_edu`, `experience`, `designation`) VALUES
-> (1, 'Petey Cruiser', '410763981007', 'peter@gmail.com', '405 Fulton Court Attleboro, MA 02703', '405 Fulton Court Attleboro, MA 02703', 'BTech in CS', 0, 1),
-> (2, 'Anna Sthesia', '10105525611', 'anna@gmail.com', '47 Glenridge St.\r\nHuntersville, NC 28078', '47 Glenridge St.\r\nHuntersville, NC 28078', 'CA', 20, 2),
-> (3, 'Paul Molive', '6011377914', 'paul@gmail.com', '945 Mill Street\r\nParlin, NJ 08859', '945 Mill Street\r\nParlin, NJ 08859', 'Diploma in Computer Design', 21, 3),
-> (4, 'Anna Mull', '7901584026', 'annamull@gmail.com', '613 East Clay Lane\r\nPalatine, IL 60067', '613 East Clay Lane\r\nPalatine, IL 60067', 'Masters in CSE', 25, 4),
-> (5, 'Gail Forcewind', '1594941628', 'gail@gmail.com', '479 Thorne St.\r\nSaint Joseph, MI 49085', '479 Thorne St.\r\nSaint Joseph, MI 49085', 'CFO', 22, 5),
-> (6, 'Paige Turner', '0148042499', 'paige@gmail.com', '128 Hillside St.\r\nBismarck, ND 58501', '128 Hillside St.\r\nBismarck, ND 58501', 'MBA', 15, 7),
-> (7, 'Walter Melon', '1171089059', 'walter@gmail.com', '7990 Lakewood Dr.\r\nPlatfield, NJ 07060', '7990 Lakewood Dr.\r\nPlatfield, NJ 07060', 'BTech in CS', 10, 8),
-> (8, 'Nick R. Bocker', '5779877107', 'nick@gmail.com', '7555 NW. Gulf Drive\r\nJamaica, NY 11432', '7555 NW. Gulf Drive\r\nJamaica, NY 11432', 'BTech in CS', 8, 9),
-> (9, 'Barb Ackue', '9646946767', 'barb@gmail.com', '478 South Crescent Street\r\nBergenfield, NJ 07621', '478 South Crescent Street\r\nBergenfield, NJ 07621', 'BTech in CS', 12, 6);
Query OK, 9 rows affected (0.11 sec)
Records: 9 Duplicates: 0 Warnings: 0

mysql> INSERT INTO `Technology` (`ID`, `Technology`, `Version`) VALUES
-> (1, 'Django', '3.0.0'),
-> (2, 'Node JS', '12.0.0'),
-> (3, 'Android', '8'),
-> (4, 'Tensorflow', '2'),
-> (5, 'Flutter', '10.0.0');
```

```
mysql> INSERT INTO `Technology` (`ID`, `Technology`, `Version`) VALUES
  -> (1, 'Django', '3.0.0'),
  -> (2, 'Node JS', '12.0.0'),
  -> (3, 'Android', '8'),
  -> (4, 'Tensorflow', '2'),
  -> (5, 'Flutter', '10.0.0');
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Technology;
+-----+-----+-----+
| ID | Technology | Version |
+-----+-----+-----+
| 1 | Django     | 3.0.0   |
| 2 | Node JS    | 12.0.0  |
| 3 | Android    | 8        |
| 4 | Tensorflow | 2        |
| 5 | Flutter    | 10.0.0  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Consultant_Technologies` (`ID`, `TechID`, `ConsultantID`) VALUES
  -> (1, 1, 6),
  -> (2, 2, 6),
  -> (3, 3, 8),
  -> (4, 4, 9),
  -> (5, 5, 8);
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Consultant_Technologies;
+-----+-----+-----+
| ID | TechID | ConsultantID |
+-----+-----+-----+
| 1 | 1       | 6            |
| 2 | 2       | 6            |
| 3 | 3       | 8            |
| 4 | 4       | 9            |
| 5 | 5       | 8            |
+-----+-----+-----+
5 rows in set (0.00 sec)
```



```
mysql> INSERT INTO `Customers` (`Name`, `ID`, `phone`, `email`, `fax`, `pAddress`) VALUES
  -> ('Acme Corporation', 1, '1318100317', 'acme@gmail.com', '5779877107', NULL), WHERE `Cus
  -> ('Soylent Corp', 2, '0914013308', 'soylent@gmail.com', '0914013308', NULL); WHERE `Cus
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Customertrs;
ERROR 1146 (42S02): Table 'open_ppm.Customertrs' doesn't exist
mysql> SELECT * FROM Customers;
+-----+-----+-----+-----+-----+-----+
| Name          | ID | phone   | email          | fax          | pAddress |
+-----+-----+-----+-----+-----+-----+
| Acme Corporation | 1 | 1318100317 | acme@gmail.com | 5779877107 | NULL |
| Soylent Corp    | 2 | 0914013308 | soylent@gmail.com | 0914013308 | NULL |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Contacts` (`Conatct_Person`, `ID`, `phone`, `mobile`, `Email`, `profile_desc`, `CustomerID`) VALUES
  -> ('Buck Kinnear', 1, '8653690567', '8653690567', 'buck@gmail.com', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua.', 1),
  -> ('Greta Life', 2, '7759478389', '7759478389', 'greta@gmail.com', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua.', 1),
  -> ('Ira Membrit', 3, '1948093558', '1948093558', 'ira@gmail.com', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua.', 2),
  -> ('Brock Lee', 4, '3277574011', '3277574011', 'brock@gmail.com', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua.', 2);
Query OK, 4 rows affected (0.04 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql>
mysql> SELECT * FROM Contacts;
+-----+-----+-----+-----+-----+-----+
| Conatct_Person | ID | phone   | mobile         | Email          | profile_desc | CustomerID |
+-----+-----+-----+-----+-----+-----+
| Buck Kinnear   | 1 | 8653690567 | 8653690567 | buck@gmail.com | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua. | 1 |
| Greta Life     | 2 | 7759478389 | 7759478389 | greta@gmail.com | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua. | 1 |
| Ira Membrit    | 3 | 1948093558 | 1948093558 | ira@gmail.com   | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua. | 2 |
| Brock Lee      | 4 | 3277574011 | 3277574011 | brock@gmail.com | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod temp
or incididunt ut labore et dolore magna aliqua. | 2 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> UPDATE `Customers` SET `pAddress` = '1' WHERE `Customers`.`ID` = 1;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE `Customers` SET `pAddress` = '3' WHERE `Customers`.`ID` = 2;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> INSERT INTO `Projects` (`ID`, `Title`, `Description`, `CustomerID`, `PM`, `status`, `estimated_effort`, `estimated_cost`, `pCompleted`, `Start
Date`, `Finish_Date`) VALUES
-> (1, 'Sirius', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.', 1
4, 0, 0.00, 0.00, 0.00, '2020-09-12 13:15:49', '2021-02-27 13:15:49'),
-> (2, 'Open PPM', 'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.',
2, 4, 0, 0.00, 0.00, 0.00, '2020-09-12 13:15:49', '2021-04-16 13:15:49');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Projects;
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| ID | Title | Description | CustomerID | PM | status | estimated_effort | estimated_cost | pCompleted | Start_Date | Finish_Date |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Sirius | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. | 14 | 0 | 0.00 | 0.00 | 0.00 | 2020-09-12 13:15:49 | 2021-02-27 13:15:49 |
| 2 | Open PPM | Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. | 2 | 4 | 0 | 0.00 | 0.00 | 0.00 | 2020-09-12 13:15:49 | 2021-04-16 13:15:49 |
+----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Project_Technologies` (`ID`, `ProjectID`, `TechID`) VALUES
-> (1, 1, 1),
-> (2, 1, 2),
-> (3, 1, 3),
-> (4, 1, 4),
-> (5, 1, 5),
-> (6, 2, 1),
-> (7, 2, 2),
-> (8, 2, 3),
-> (9, 2, 4),
-> (10, 2, 5);
Query OK, 10 rows affected (0.09 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Project_Technologies;
+----+-----+-----+
| ID | ProjectID | TechID |
+----+-----+-----+
| 1 | 1 | 1 |
| 2 | 1 | 2 |
| 3 | 1 | 3 |
| 4 | 1 | 4 |
| 5 | 1 | 5 |
| 6 | 2 | 1 |
| 7 | 2 | 2 |
| 8 | 2 | 3 |
| 9 | 2 | 4 |
| 10 | 2 | 5 |
+----+-----+-----+
10 rows in set (0.00 sec)
```



```
mysql> INSERT INTO `Project_Resources` (`ID`, `Project_ID`, `Resource_ID`, `Hourly_Rate`, `Estimate_Effort`, `Actual_Effort`, `Relative_Percentage_completed`) VALUES
-> (1, 1, 1, 0.00, 0.00, 0.00, 0.00),
-> (2, 1, 2, 0.00, 0.00, 0.00, 0.00),
-> (3, 1, 3, 0.00, 0.00, 0.00, 0.00),
-> (4, 1, 6, 0.00, 0.00, 0.00, 0.00),
-> (5, 1, 8, 0.00, 0.00, 0.00, 0.00),
-> (6, 2, 1, 0.00, 0.00, 0.00, 0.00),
-> (7, 2, 2, 0.00, 0.00, 0.00, 0.00),
-> (8, 2, 6, 0.00, 0.00, 0.00, 0.00),
-> (9, 2, 7, 0.00, 0.00, 0.00, 0.00),
-> (10, 2, 8, 0.00, 0.00, 0.00, 0.00);
Query OK, 10 rows affected (0.10 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Project_Resources;
ERROR 1146 (42S02): Table 'open_ppm.Project_Resources' doesn't exist
mysql> SELECT * FROM Project_Resources;
+----+-----+-----+-----+-----+-----+-----+
| ID | Project_ID | Resource_ID | Hourly_Rate | Estimate_Effort | Actual_Effort | Relative_Percentage_completed |
+----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 1 | 2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 1 | 3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 1 | 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 1 | 8 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 2 | 1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 2 | 2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 2 | 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 2 | 7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 2 | 8 | 0.00 | 0.00 | 0.00 | 0.00 |
+----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO `Project_Transaction` (`ID`, `Resource_ID`, `Entry_Date`, `Effort_Spent`, `Percentage_Completed`, `ProjectID`) VALUES
-> (1, 1, '2020-09-12 13:33:24', '22.00', '0.20', 2),
-> (2, 2, '2020-09-12 13:33:24', '10.00', '0.01', 2),
-> (3, 3, '2020-09-12 13:33:24', '10.00', '0.10', 2),
-> (4, 4, '2020-09-12 13:33:24', '15.00', '1.00', 2),
-> (5, 5, '2020-09-12 13:33:24', '25.20', '5.00', 2),
-> (6, 6, '2020-09-12 13:33:24', '5.00', '0.01', 2),
-> (7, 7, '2020-09-12 13:33:24', '2.00', '0.02', 2),
-> (8, 8, '2020-09-12 13:33:24', '25.00', '10.00', 2),
-> (9, 9, '2020-09-12 13:33:24', '26.00', '30.00', 1),
-> (10, 3, '2020-09-12 13:33:24', '10.00', '20.00', 1);
Query OK, 10 rows affected (0.11 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Project_Transactions;
ERROR 1146 (42S02): Table 'open_ppm.Project_Transactions' doesn't exist
mysql> SELECT * FROM Project_Transaction;
+----+-----+-----+-----+-----+-----+
| ID | Resource_ID | Entry_Date | Effort_Spent | Percentage_Completed | ProjectID |
+----+-----+-----+-----+-----+-----+
| 1 | 1 | 2020-09-12 13:33:24 | 22.00 | 0.20 | 2 |
| 2 | 2 | 2020-09-12 13:33:24 | 10.00 | 0.01 | 2 |
| 3 | 3 | 2020-09-12 13:33:24 | 10.00 | 0.10 | 2 |
| 4 | 4 | 2020-09-12 13:33:24 | 15.00 | 1.00 | 2 |
| 5 | 5 | 2020-09-12 13:33:24 | 25.20 | 5.00 | 2 |
| 6 | 6 | 2020-09-12 13:33:24 | 5.00 | 0.01 | 2 |
| 7 | 7 | 2020-09-12 13:33:24 | 2.00 | 0.02 | 2 |
| 8 | 8 | 2020-09-12 13:33:24 | 25.00 | 10.00 | 2 |
| 9 | 9 | 2020-09-12 13:33:24 | 26.00 | 30.00 | 1 |
| 10 | 3 | 2020-09-12 13:33:24 | 10.00 | 20.00 | 1 |
+----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```