Ex.No. : 3
Date:
DML Commands – INSERT, SELECT, UPDATE, DELETE

Aim:

To perform Data Manipulation Language (DML) Commands such as INSERT, SELECT, UPDATE, DELETE in the table.

Description:

Data Manipulation Language (DML) statements are used for managing data within schema objects. DML Commands: Insert , Update, Delete, Select
- INSERT - insert data into a table
- UPDATE - updates existing data within a table
- DELETE - deletes all records from a table, the space for the records remain
- SELECT - retrieve data from the a database

INSERT:

INSERT INTO table_name
VALUES (value1, value2, value3,...);
(or)
INSERT INTO table_name (column1, column2, column3,...)
VALUES (value1, value2, value3,...);

UPDATE:

UPDATE table_name
SET column1=value, column2=value2,...
WHERE some_column=some_value;

DELETE:

DELETE FROM table_name
WHERE some_column=some_value;

SELECT:

SELECT column_name(s)
FROM table_name;

Questions:

1. Populate all the five tables with your own data.

2. Update the value of student name whose register number is '191711342'

3. Delete the record in the table FACULTY, who resigned her job.

4. Modify the date of birth for the faculty whose name is 'RAM' with a value '1983-05-01'.

5. Remove all faculty who are having over 65 years

6. View all the records from the five tables. Exercise

OUTPUTS:

1)

```
mysql> select * from faculty;
+-------+----------+--------+------------+------------+-----------+--------+
| Facno | FacName  | Gender | DOB        | DOJ        | MobileNo  | DeptNo |
+-------+----------+--------+------------+------------+-----------+--------+
| 1     | srujana  | F      | 1985-12-09 | 2010-12-09 | 602729273 | C001   |
| 2     | shruthi  | F      | 1989-10-23 | 2011-11-01 | 602722323 | C002   |
| 3     | mahesh   | M      | 1990-09-25 | 2009-08-14 | 675435853 | C003   |
| 4     | tharun   | M      | 1992-06-29 | 2013-09-15 | 283022382 | c004   |
| 5     | siddu    | M      | 1982-06-10 | 2007-03-05 | 283483973 | c005   |
+-------+----------+--------+------------+------------+-----------+--------+
5 rows in set (0.00 sec)

mysql> select * from student;
+-----------+----------+--------+------------+-----------+---------+
| Regno     | Name     | Gender | DOB        | MobileNo  | city    |
+-----------+----------+--------+------------+-----------+---------+
| 191711342 | jasmine  | F      | 2004-05-11 | 789645322 | mydukur |
| 191711908 | karthika | F      | 2006-04-21 | 630931332 | chittor |
| 192211087 | prem     | M      | 2004-03-09 | 782441947 | kadapa  |
| 192211163 | mahith   | M      | 2005-07-10 | 630439357 | nellore |
| 192211164 | pavan    | M      | 2005-06-23 | 630453224 | nellore |
+-----------+----------+--------+------------+-----------+---------+
5 rows in set (0.00 sec)

mysql> select * from department;
+--------+----------+----------+
| DeptNo | DeptName | DeptHead |
+--------+----------+----------+
| C001   | CSE      | ram      |
| C002   | ECE      | mahi     |
| C003   | mech     | ramu     |
| C004   | EEE      | sam      |
| C005   | CIVIL    | akki     |
+--------+----------+----------+
5 rows in set (0.01 sec)
```

```
mysql> SELECT * FROM COURSE;
+----------+----------+------------+-------+--------+-------+
| CourseNo | CourseDesc | CourseType | SemNo | HallNo | FacNo |
+----------+----------+------------+-------+--------+-------+
| 1        | DBMS     | A          | 1     | C001   | U001  |
| 2        | PDSD     | B          | 2     | C002   | U002  |
| 3        | BIO      | C          | 3     | C003   | U003  |
| 4        | MATH     | D          | 4     | C004   | U004  |
| 5        | POM      | E          | 5     | C005   | U005  |
+----------+----------+------------+-------+--------+-------+
```

```
mysql> select * from student;
+-----------+----------+--------+------------+-----------+---------+
| Regno     | Name     | Gender | DOB        | MobileNo  | city    |
+-----------+----------+--------+------------+-----------+---------+
| 191711342 | swetha   | F      | 2004-05-11 | 789645322 | mydukur |
| 191711908 | karthika | F      | 2006-04-21 | 630931332 | chittor |
| 192211087 | prem     | M      | 2004-03-09 | 782441947 | kadapa  |
| 192211163 | mahith   | M      | 2005-07-10 | 630439357 | nellore |
| 192211164 | pavan    | M      | 2005-06-23 | 630453224 | nellore |
+-----------+----------+--------+------------+-----------+---------+
5 rows in set (0.00 sec)

mysql> update student set NAme="jasmine" where RegNo=191711342;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student;
+-----------+----------+--------+------------+-----------+---------+
| Regno     | Name     | Gender | DOB        | MobileNo  | city    |
+-----------+----------+--------+------------+-----------+---------+
| 191711342 | jasmine  | F      | 2004-05-11 | 789645322 | mydukur |
| 191711908 | karthika | F      | 2006-04-21 | 630931332 | chittor |
| 192211087 | prem     | M      | 2004-03-09 | 782441947 | kadapa  |
| 192211163 | mahith   | M      | 2005-07-10 | 630439357 | nellore |
| 192211164 | pavan    | M      | 2005-06-23 | 630453224 | nellore |
+-----------+----------+--------+------------+-----------+---------+
5 rows in set (0.00 sec)
```

2)

```
mysql> select * from faculty;
+-------+----------+--------+------------+------------+-----------+--------+----------+
| Facno | FacName  | Gender | DOB        | DOJ        | MobileNo  | DeptNo | Resigned |
+-------+----------+--------+------------+------------+-----------+--------+----------+
| 1     | srujana  | F      | 1985-12-09 | 2010-12-09 | 602729273 | C001   | yes      |
| 2     | shruthi  | F      | 1989-10-23 | 2011-11-01 | 602722323 | C002   | no       |
| 3     | mahesh   | M      | 1990-09-25 | 2009-08-14 | 675435853 | C003   | no       |
| 4     | tharun   | M      | 1992-06-29 | 2013-09-15 | 283022382 | c004   | no       |
| 5     | siddu    | M      | 1982-06-10 | 2007-03-05 | 283483973 | c005   | no       |
+-------+----------+--------+------------+------------+-----------+--------+----------+
5 rows in set (0.00 sec)

mysql> delete from faculty where Resigned="yes";
Query OK, 1 row affected (0.01 sec)

mysql> select * from faculty;
+-------+----------+--------+------------+------------+-----------+--------+----------+
| Facno | FacName  | Gender | DOB        | DOJ        | MobileNo  | DeptNo | Resigned |
+-------+----------+--------+------------+------------+-----------+--------+----------+
| 2     | shruthi  | F      | 1989-10-23 | 2011-11-01 | 602722323 | C002   | no       |
| 3     | mahesh   | M      | 1990-09-25 | 2009-08-14 | 675435853 | C003   | no       |
| 4     | tharun   | M      | 1992-06-29 | 2013-09-15 | 283022382 | c004   | no       |
| 5     | siddu    | M      | 1982-06-10 | 2007-03-05 | 283483973 | c005   | no       |
+-------+----------+--------+------------+------------+-----------+--------+----------+
4 rows in set (0.00 sec)
```

3)

```
mysql> update faculty set DOB="1983-05-01" where FacName="siddu";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from faculty;
+-------+----------+--------+------------+------------+-----------+--------+----------+
| Facno | FacName  | Gender | DOB        | DOJ        | MobileNo  | DeptNo | Resigned |
+-------+----------+--------+------------+------------+-----------+--------+----------+
| 2     | shruthi  | F      | 1989-10-23 | 2011-11-01 | 602722323 | C002   | no       |
| 3     | mahesh   | M      | 1990-09-25 | 2009-08-14 | 675435853 | C003   | no       |
| 4     | tharun   | M      | 1992-06-29 | 2013-09-15 | 283022382 | c004   | no       |
| 5     | siddu    | M      | 1983-05-01 | 2007-03-05 | 283483973 | c005   | no       |
+-------+----------+--------+------------+------------+-----------+--------+----------+
4 rows in set (0.00 sec)
```

4)

```
mysql> delete from faculty where age>65;
Query OK, 1 row affected (0.01 sec)

mysql> select * from faculty;
+-------+----------+--------+------------+------------+-----------+--------+----------+-----+
| Facno | FacName  | Gender | DOB        | DOJ        | MobileNo  | DeptNo | Resigned | age |
+-------+----------+--------+------------+------------+-----------+--------+----------+-----+
| 3     | mahesh   | M      | 1990-09-25 | 2009-08-14 | 675435853 | C003   | no       | 30  |
| 4     | tharun   | M      | 1992-06-29 | 2013-09-15 | 283022382 | c004   | no       | 32  |
| 5     | siddu    | M      | 1983-05-01 | 2007-03-05 | 283483973 | c005   | no       | 40  |
+-------+----------+--------+------------+------------+-----------+--------+----------+-----+
3 rows in set (0.00 sec)
```

5)

```
mysql> select * from student;
+-----------+-----------+--------+------------+-----------+---------+
| Regno     | Name      | Gender | DOB        | MobileNo  | city    |
+-----------+-----------+--------+------------+-----------+---------+
| 191711342 | jasmine   | F      | 2004-05-11 | 789645322 | mydukur |
| 191711908 | karthika  | F      | 2006-04-21 | 630931332 | chittor |
| 192211087 | prem      | M      | 2004-03-09 | 782441947 | kadapa  |
| 192211163 | mahith    | M      | 2005-07-10 | 630439357 | nellore |
| 192211164 | pavan     | M      | 2005-06-23 | 630453224 | nellore |
+-----------+-----------+--------+------------+-----------+---------+
5 rows in set (0.00 sec)
```

6)

```
mysql> select * from department;
+--------+----------+----------+
| DeptNo | DeptName | DeptHead |
+--------+----------+----------+
| C001   | CSE      | ram      |
| C002   | ECE      | mahi     |
| C003   | mech     | ramu     |
| C004   | EEE      | sam      |
| C005   | CIVIL    | akki     |
+--------+----------+----------+
5 rows in set (0.00 sec)
```

RESULT:

Data Manipulation Language (DML) Commands such as INSERT, SELECT, UPDATE, DELETE are performed in the five tables.