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:

```
mysql> select * from faculty;
              FacName
                                  DOB
                                                DOJ
                                                              MobileNo
                                                                           DeptNo
                        Gender
                                  1985-12-09
              srujana
                                                2010-12-09
                                                              602729273
                                                                           C001
     2
              shruthi
                                  1989-10-23
                                                2011-11-01
                                                              602722323
                                                                           C002
     3
                        М
                                  1990-09-25
                                                                           C003
              mahesh
                                                2009-08-14
                                                              675435853
     4
              tharun
                        Μ
                                  1992-06-29
                                                2013-09-15
                                                              283022382
                                                                           c004
     5
              siddu
                        Μ
                                                2007-03-05
                                  1982-06-10
                                                              283483973
                                                                           c005
     rows in set (0.00 sec)
1)
   nysql> select * from student;
                                                     MobileNo
                                                                  city
                             Gender
                                       DOB
     Regno
     191711342
                  jasmine
                                       2004-05-11
                                                     789645322
                                                                  mydukur
                  karthika
                             F
                                                                  chittor
     191711908
                                       2006-04-21
                                                     630931332
     192211087
                             Μ
                                       2004-03-09
                                                     782441947
                                                                  kadapa
                  prem
     192211163
                  mahith
                                       2005-07-10
                                                     630439357
                                                                  nellore
     192211164
                             Μ
                                       2005-06-23
                                                     630453224
                                                                  nellore
                  pavan
     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
     rows in set (0.01 sec)
```

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

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

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

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 MobileNo DOJ | DeptNo | Resigned 2 shruthi 1989-10-23 2011-11-01 602722323 C002 no 3 mahesh Μ 1990-09-25 2009-08-14 675435853 C003 no 4 tharun Μ 1992-06-29 2013-09-15 283022382 c004 no 5 siddu Μ 1983-05-01 2007-03-05 283483973 c005 no 4 rows in set (0.00 sec)

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 Μ 1990-09-25 | 2009-08-14 675435853 C003 30 no 1992-06-29 | 2013-09-15 tharun Μ 283022382 c004 no 32 5 283483973 siddu 1983-05-01 | 2007-03-05 c005 40 3 rows in set (0.00 sec)

4)

3)

5

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

RESULT:

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