Lab Exercise 2 (27-02-2023)

Table Creation

```
3 ● ○ CREATE TABLE Department(
       DeptId int PRIMARY KEY,
       Name varchar(25),
       HoD int,
       Phone bigint
10 • ○ CREATE TABLE Professor(
11
      EmpId int PRIMARY KEY,
       Name varchar(25),
       Sex varchar(2),
       StartYear date,
       DeptNo int,
       Phone bigint
19 • ○ CREATE TABLE Student(
      RollNo int PRIMARY KEY,
       Name varchar(25),
21
       Degree varchar(30),
       Year date,
       Sex varchar(2),
24
       DeptNo int,
      Advisor int
27
30 • ○ CREATE TABLE Course(
31
      CourseId char(5) PRIMARY KEY,
       CourseName varchar(25),
33
       Credits int,
       DeptNo int REFERENCES Department(DeptId)
34
     ();
36
38 • ○ CREATE TABLE Enrollment(
       RollNo int REFERENCES Student(RollNo),
       CourseId char(5) REFERENCES Course(CourseId),
       Sem int,
       Year int,
42
43
       Grade varchar(2)
44
     ();
46
47 • ○ CREATE TABLE Teaching(
       EmpId int REFERENCES Professor(EmpId),
       CourseId char(5) REFERENCES Course(CourseId),
50
       Sem int,
51
       Year int,
52
       ClassRoom char(4)
54
```

```
CREATE TABLE Prerequisite(

Prereqcourse char(5) REFERENCES Course(CourseId),

CourseId char(5) REFERENCES Course(CourseId)

;

;

59
```

Added Constraints

```
1    ALTER TABLE Student
2    ADD CONSTRAINT c1 FOREIGN KEY(DeptNo) REFERENCES Department(DeptId);
3
4    ALTER TABLE Student
5    ADD CONSTRAINT c2 FOREIGN KEY(Advisor) REFERENCES Professor(EmpId);
6
7    ALTER TABLE Department
8    ADD CONSTRAINT c3 FOREIGN KEY(HoD) REFERENCES Professor(EmpId);
9
10    ALTER TABLE Professor
11    ADD CONSTRAINT c4 FOREIGN KEY(DeptNo) REFERENCES Department(DeptId);
12
13
```

Display of All tables

```
      mysql> Select * from teaching;

      +----+
      +----+

      | EmpId | CourseId | Sem | Year | ClassRoom |

      +----+
      1 | CS101 | 1 | 1 | CS-1 |

      | 1 | CS101 | 1 | 1 | CS-1 |

      +----+
      1 | Tow in set (0.00 sec) 11:32:57 | INSERTINTO Student VALUES(21110032... 1 row(s) affected
```

```
mysql> select * from Course;
 CourseId | CourseName
                                      | Credits | DeptNo |
           | Artificial Intelligence |
                                                       3 |
1 row in set (0.00 sec)
mysql> Select * from Department; mpId, name, Phone
DeptId | Name | HoD | WPhoned ptno=3 AND Startyear> '1999-01-01';
       3 | CSE
                     1 |
                          1212
       5 | CHEM |
                     2 |
                           1212 |
                                tudent.Rollno, Student.Name, Professor.name, Pr
2 rows in set (0.01 sec) FROM Professor, Student
mysql> Select * from Enrollment;
           | CourseId | Sem | Year | Grade |
| RollNo
| 21110088 | CS101 8
                       FROM profedsdr0
                          HERE startyear<'1995-01-01';
1 row in set (0.01 sec)
mysql> Select * from Prerequisite; Queries
| Prereqcourse | CourseId |
| NULL
               | CS101
1 row in set (0.00 sec)
mysql> Select * from Professor;
                     Sex
| EmpId | Name
                            | StartYear | DeptNo | Phone
                                                                FROM Professor)
      1 |
          Waseem
                              2017-01-01
                                                    9988776656
                     l m
          Harini
                             2000-01-01
                                                5
                                                    9943424656
      2 |
      3 | Ravindran | m
                            | 1989-01-01 |
                                                    8843444656
3 rows in set (0.00 sec)
mysql> Select * from student;
| RollNo
           | Name
                        Degree | Year
                                             | Sex
                                                     | DeptNo | Advisor
  21110011 | Balu 51
                                  2020-07-01 | MT HOD-2 WHER3.
                                                                row(s) aff3cted Rows ma
                       | Btech
                                  2020-07-01 dent FALUE (21110035. 11 row(s) aff2 tid
             Mrunal 52
  21110032
                        Btech
                                  2021-07-01dentMALUE9(211100113. |1 row(s) aff1ct
  21110088 |
             Prathosh I
                        Btech
```