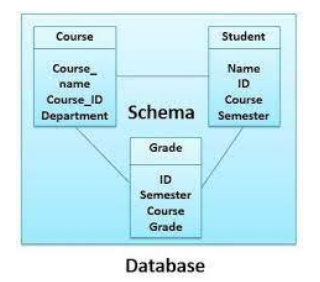
**CS 262 – Database Management Systems Lab**

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**WEEK 1 PROBLEMS**

1. **Create the tables in the database.**

**Query:**

SQL> create table Course( Course\_Name varchar(10),

Course\_ID number,

Department varchar(10));

**Output:**

Table created.

**Query:**

SQL> create table Student( Name varchar(20),

Student\_ID number,

Course varchar(10),

Semester number);

**Output:**

Table created.

**Query:**

SQL> create table Grade( ID varchar(10),

Semester number,

Course varchar(10),

Grade number);

**Output:**

Table created.

1. **Alter the course table by adding a new attribute instructor.**

**Query:**

alter table Course add instructor varchar(20);

**Output:**

Table altered.

1. **Alter the student table by modifying the datatype of Student\_ID.**

**Query:**

alter table Student modify Student\_ID varchar(10);

**Output:**

Table altered.

1. **Alter the course table by dropping instructor attribute.**

**Query:**

alter table Course drop column instructor;

**Output:**

Table altered.

1. **Show the structure of the grade table.**

**Query:**

desc Grade; (or )

decsribe Grade;

**Output:**

**Name Null? Type**

**ID VARCHAR2(10)**

**SEMESTER NUMBER**

**COURSE VARCHAR2(10)**

**GRADE NUMBER**

1. **Load the database with data using insert statements.**

**Query:**

insert into Course values("P and S", 211, "CSE");

insert into Course values("DMS", 212, "CSE");

insert into Course values("CO", 213, "CSE");

insert into Course values("DS", 214, "CSE");

insert into Course values("OOP", 215, "CSE");

insert into Student values("Tayyab", "Y21CS172", "Machine Learning", 3);

insert into Student values("Neeraj", "Y21CS185", "Web Development", 3);

insert into Student values("Roshan", "Y21CS160", "Cyber Security", 3);

insert into Student values("Karthik", "Y21CS169", "Data Science", 3);

insert into Grade values('Y21CS172', 3, 'P and S', 9);

insert into Grade values('Y21CS172', 3, 'DMS', 9);

insert into Grade values('Y21CS172', 3, 'CO', 7);

insert into Grade values('Y21CS172', 3, 'DS', 8);

insert into Grade values('Y21CS172', 3, 'OOP', 9);

**Output:**

row created.

1. **Retrieve the contents of a table using select statements.**

**Query:**

select \* from Course;

select \* from Student;

select \* from Grade;

**Output:**

P and S|211|CSE

DMS|212|CSE

CO|213|CSE

DS|214|CSE

OOP|215|CSE

Tayyab|Y21CS172|Machine Learning|3

Neeraj|Y21CS185|Web Development|3

Roshan|Y21CS160|Cyber Security|3

Karthik|Y21CS169|Data Science|3

Y21CS172|3|P and S|9

Y21CS172|3|DMS|9

Y21CS172|3|CO|7

Y21CS172|3|DS|8

Y21CS172|3|OOP|9

1. **Modify the contents of tables using update statements.**

**Query:**

update Course set Course\_Name = ‘CS’ where Course\_ID = 211;

**Output:**

1. **Delete selected records from the tables.**

**Query:**

delete from Students where Name = ‘Neeraj’;

1. **Truncate a table.**

**Query:**

truncate table Student;

1. **Drop a table.**

**Query:**

drop table Grade;

1. **Commit the changes made to the database.**

**Query:**

commit;