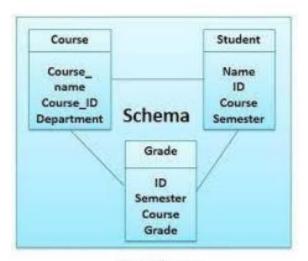
<u>CS 262 – Database Management Systems Lab</u>



Database

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.		
2.	2. Alter the course table by adding a new attribute instructor. Query: alter table Course add instructor varchar(20); Output: Table altered.		
3.	Alter the student table by modifying the datatype of Student_ID. Query: alter table Student modify Student_ID varchar(10); Output: Table altered.		
4.	Alter the course table by dropping instructor attribute. Query: alter table Course drop column instructor; Output:		

Table altered.

5. Show the structure of the grade table.

Query:

```
desc Grade; (or )
decsribe Grade;
```

Output:

Name	Null?	Туре
ID		VARCHAR2(10)
SEMESTER		NUMBER
COURSE		VARCHAR2(10)
GRADE		NUMBER

6. 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, 'DS', 8);
insert into Grade values('Y21CS172', 3, 'DS', 8);
insert into Grade values('Y21CS172', 3, 'OOP', 9);
```

Output:

row created.

7. 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

C0|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|C0|7

Y21CS172|3|DS|8

Y21CS172|3|OOP|9
```

8. Modify the contents of tables using update statements.

Query:

```
update Course set Course_Name = 'CS' where Course_ID = 211;
```

Output:

9. Delete selected records from the tables.

Query:

delete from Students where Name = 'Neeraj';

10.Truncate a table.

Query:

truncate table Student:

11.Drop a table.

Query:

drop table Grade;

12. Commit the changes made to the database.

Query:

commit;