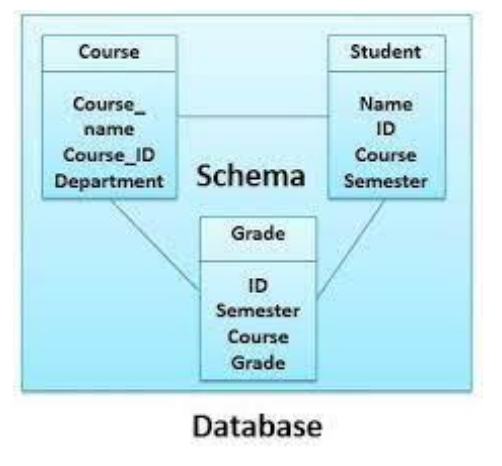
**DATABASE MANAGEMENT SYSTEM LAB (CS-262)**



**WEEK - 1:**

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

SQL> create table Course(Course\_name char(40),Course\_ID varchar(40),Department char(40));

Table created.

SQL> create table Student(Name char(40),ID varchar(40),Course varchar(40),Semester char(40));

Table created.

SQL> create table Grade(ID varchar(40),Semester char(40),Course varchar(40),Grades number);

Table created.

SQL> select \* from tab;

TNAME TABTYPE CLUSTERID

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COURSE TABLE

GRADE TABLE

STUDENT TABLE

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

SQL> ALTER TABLE COURSE ADD INSTRUCTOR VARCHAR(40);

Table altered.

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

SQL> ALTER TABLE STUDENT MODIFY ID NUMBER;

Table altered.

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

SQL> ALTER TABLE COURSE DROP COLUMN INSTRUCTOR;

Table altered.

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

SQL> DESC GRADE;

Name Null? Type

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ID VARCHAR2(40)

SEMESTER VARCHAR2(40)

COURSE CHAR(40)

GRADE VARCHAR2(40)

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

SQL> INSERT INTO COURSE VALUES('DBMS','CS226','CSE');

1 row created.

SQL> INSERT INTO STUDENT VALUES('SUFIYAN','Y21CS162','CS226','4th SEM’);

1 row created.

SQL> INSERT INTO GRADE VALUES('Y21CS162','4th SEM','CSE',10);

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

SQL> SELECT \* FROM COURSE;

COURSE\_NAME COURSE\_ID DEPARTMENT

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DBMS CS226 CSE

WT CS225 CSE

CS CS221 CSE

SQL>SELECT COURSE\_ID FROM COURSE;

COURSE\_ID

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CS226

CS225

CS221

SQL>SELECT \* FROM COURSE WHERE COURSE\_ID=’CS226’;

COURSE\_NAME COURSE\_ID DEPARTMENT

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DBMS CS226 CSE

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

SQL> UPDATE COURSE SET COURSE\_ID=’CS224' WHERE COURSE\_ID='CS221';

1 row updated.

SQL> SELECT \* FROM COURSE;

COURSE\_NAME COURSE\_ID DEPARTMENT

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DBMS CS226 CSE

WT CS225 CSE

CS CS221 CSE

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

SQL> DELETE FROM GRADE WHERE SEMESTER='THIRD SEMESTER';

1 row deleted.

SQL> DELETE FROM STUDENT WHERE ID=161;

1 row deleted.

SQL> DELETE FROM COURSE WHERE COURSE\_ID='Y21CS161';

1 row deleted.

1. **Truncate a table.**

SQL> TRUNCATE TABLE GRADE;

Table truncated.

1. **Drop a table.**

SQL> DROP TABLE COURSE;

Table dropped.

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

SQL> COMMIT;

Commit complete.