**Ex no:1**

**Data Definition Language**

**Date:**

**1 : Create a table called emp with following structure.**

Name Type

----------------------------------------- ------------------

ENAME VARCHAR2(20)

JOB VARCHAR2(10)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

Allow NULL for all columns except ename and job.

SQL> create table emp (ename varchar2(20) not null ,job varchar2(10) not null ,MGR number(4),deptno number(3),sal number(7,2),empno number(6));

Table created.

SQL> desc emp;

Name Null? ype

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(10)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NMBER(7,2)

EMPNO NUMBER(6)

**2: Add a column commission to emp table .**

**Commission numeric null allowed**

SQL> alter table emp add (commission number(10));

Table altered.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(10)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

**3: Modify the column width of the job field of emp table.**

SQL> alter table emp modify (job varchar2(20));

Table altered.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(20)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

**4:Create dept table with following structure.**

Name Type

----------------------------------------- -------------------

DEPTNO NUMBER(20)

DNAME VARCHAR2(10)

LOC VARCHAR2(10)

SQL> create table dept (deptno number(20),dname varchar2(10), loc varchar2(10),constraint deptpk primary key (deptno));

Table created.

SQL> desc dept;

Name Null? Type

----------------------------------------- -------- ----------

DEPTNO NOT NULL NUMBER(20)

DNAME VARCHAR2(10)

LOC VARCHAR2(10)

**5: Add constraints to the emp table that empno as the primary key and deptno as the forgien key**

SQL> alter table emp add constraint fk foreign key (deptno) references dept(deptno);

Table altered.

**6:Add constraints to the emp table to check the empno value while entering (i.e)empno>100**.

SQL> alter table emp add(constraint ck check(empno>100));

Table altered.

**7:Salary value by default is 5000,otherwise as entered values.**

SQL> alter table emp modify(sal default 5000);

Table altered.

**8: Add columns Dob to the emp table.**

SQL> alter table emp add dob date;

Table altered.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(20)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

COMMISSION NUMBER(10)

DOB DATE

**9: Add and drop a column DOJ to the emp table.**

SQL> alter table emp add (doj date);

Table altered.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(20)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

COMMISSION NUMBER(10)

DOB DATE

DOJ DATE

SQL> alter table emp drop column doj;

Table altered.

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(20)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

COMMISSION NUMBER(10)

DOB DATE

**10: Insert few rows and truncate those from the pseudoemp table and rename it to psemp and also drop it..(Pseudo table)**

SQL> create table pseudoemp as select \* from emp;

Table created.

SQL> desc pseudoemp;

SQL> desc emp;

Name Null? Type

----------------------------------------- -------- ----------

ENAME NOT NULL VARCHAR2(20)

JOB NOT NULL VARCHAR2(20)

MGR NUMBER(4)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

EMPNO NUMBER(6)

COMMISSION NUMBER(10)

COMMISSION NUMBER(10)

DOB DATE

SQL> alter table pseudoemp modify rename to psemp;

Table altered.

SQL> truncate table psemp;

Table truncated.

SQL> select \* from psemp;

No rows selected.

SQL> drop table psemp;

Table dropped.