**AIM:**Queries for Creating, Altering and Dropping Tables, Views and Constraints. **DDL Data Definition Language Commands:**

# 1)Create

SQL> create table Stud

1. (
2. stdid integer,
3. stdname varchar2(30),
4. age integer
5. );

Table created.

# 2)Describe

SQL> describe Stud

Name Null? Type

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

STDID NUMBER(38)

STDNAME VARCHAR2(30)

AGE NUMBER(38)

# 3)ALTER

i)

SQL> alter table Stud add address varchar2(100) ; Table altered.

SQL> desc Stud

Name Null? Type

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

STDID NUMBER(38)

STDNAME VARCHAR2(30)

AGE NUMBER(38) ADDRESS VARCHAR2(100) ii)

SQL> alter table Stud drop column address; Table altered.

SQL> desc Stud

Name Null? Type

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

STDID NUMBER(38)

STDNAME VARCHAR2(30) AGE NUMBER(38) iii)

SQL> alter table Stud rename column stdname to name;

Table altered.

SQL> desc Stud

Name Null? Type

----------------------------------------- -------- ---------------------------- STDID NUMBER(38)

NAME VARCHAR2(30) ADDRESS VARCHAR2(100) iv)

SQL> alter table Stud modify stdid char(10); Table altered.

SQL> desc Stud

Name Null? Type

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

STDID CHAR(10)

NAME VARCHAR2(30)

ADDRESS VARCHAR2(100)

# 4)RENAME

SQL> rename Stud to StudentData; Table renamed.

SQL> desc StudentData

Name Null? Type

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

STDID CHAR(10)

NAME VARCHAR2(30)

ADDRESS VARCHAR2(100)

# 5)DROP

SQL> drop table StudentData; Table dropped.

# 6)TRUNCATE

SQL> truncate table StudentData; Table truncated.

**Constraints**

# 1)NOT NULL

SQL> create table students1

1. (sid integer not null,
2. sname varchar2(40),
3. age integer 5 );

Table created.

SQL> insert into students1 values(501,'ravi',30); 1 row created.

SQL> insert into students1 values(501,'ravi',30); 1 row created.

SQL> insert into students1 values(501,'ravi',null);

1 row created

SQL> update students1 set age=22 where sid=502; 1 row updated.

SQL> select \* from students1;

SID SNAME AGE

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

501 ravi 30

1. ravi 30
2. ravi 22

desc student1; SQL> desc students1;

Name Null? Type

----------------------------------------- -------- ---------------------------- SID NOT NULL NUMBER(38)

SNAME VARCHAR2(40)

AGE NUMBER(38)

# 2)UNIQUE

SQL> create table student2

1. (sid integer unique,
2. sname varchar2(40),
3. age integer 5 );

Table created.

SQL> insert into student2 values(501,'sain bhanu alamuri',21); 1 row created.

SQL> insert into student2 values(501,'harshitha',20); insert into student2 values(501,'harshitha',20) \*

ERROR at line 1:

ORA-00001: unique constraint (CSE225K0.SYS\_C0020521) violated

# 3)PRIMARY KEY

SQL> create table student3

1. (sid integer primary key,
2. sname varchar2(40), 4 age integer); Table created.

SQL> insert into student3 values(501,'saibhanu',20); 1 row created. SQL> / insert into student3 values(501,'saibhanu',20) \*ERROR at line 1:

ORA-00001: unique constraint (CSE225K0.SYS\_C0020596) violated

SQL> insert into student3 values(null,'bhanu',21);

insert into student3 values(null,'bhanu',21)

\*

ERROR at line 1:

ORA-01400: cannot insert NULL into ("CSE225K0"."STUDENT3"."SID") desc student3; SQL> desc student3;

Name Null? Type

----------------------------------------- -------- ---------------------------- SID NOT NULL NUMBER(38)

SNAME VARCHAR2(40) AGE NUMBER(38)

# 4)CHECK

SQL> create table student4 (sid integer,sname varchar2(20),age integer,check (age>=18)); Table created.

SQL> insert into student4 values(501,'sai bhanu',19); 1 row created.

SQL> insert into student4 values(501,'sai bhanu',16); insert into student4 values(501,'sai bhanu',16) \*

ERROR at line 1:

ORA-02290: check constraint (CSE225K0.SYS\_C0020749) violated

# 5)DEFAULT

SQL> create table student (

1. sid integer,
2. sname varchar2(20), 4 gender char(1) default 'M'); Table created.

SQL> insert into student values(121,'ravi',default); 1 row created.

SQL> select \* from student ;

SID SNAME G

---------- -------------------- ---------- 121 ravi M

# 6)FOREIGN KEY

SQL> create table student6

1. (sid integer,
2. fee integer,
3. foreign key(sid) references student3(sid)
4. );

Table created.

SQL> insert into student6 values(501,5000); 1 row created.

SQL> insert into student6 values(501,10000); 1 row created.

SQL> insert into student6 values(502,6000); insert into student6 values(502,6000) \*

ERROR at line 1:

ORA-02291: integrity constraint (CSE225K0.SYS\_C0020827) violated - parent key not found

SQL> delete from student6 where sid=501; 2 rows deleted.

# Adding Constraints using alter

SQL> create table student10

1. (sid integer,
2. sname varchar2(40), 4 age integer); Table created.

SQL> alter table student10 add constraint s\_c primary key(sid); Table altered.

SQL> alter table student10 drop constraints s\_c; Table altered.

SQL> desc student10;

Name Null? Type

----------------------------------------- -------- ---------------------------- SID NOT NULL NUMBER(38)

SNAME VARCHAR2(40)

AGE NUMBER(38)