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| **Ex.No.1**  **09.01.2025** | **DATA DEFINITION LANGUAGE, COMMANDS, INTEGRITY CONSTRAINTS** |

**AIM**

To execute data definition language commands and integrity constraints.

**CREATING TABLE**

SQL> create table stdetails(std number(10) primary key,stname varchar(15),staddress varchar(20));

Table created.

**INSERTING ELEMENT**

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 101

Enter value for stname: ram

Enter value for staddress: erode

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(101,'ram','erode')

1 row created.

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 102

Enter value for stname: ravi

Enter value for staddress: karur

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(102,'ravi','karur')

1 row created.

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 103

Enter value for stname: naveena

Enter value for staddress: namakkal

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(103,'naveena','namakkal')

1 row created.

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 10

Enter value for stname: aswathy

Enter value for staddress: salem

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(10,'aswathy','salem')

1 row created.

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 100

Enter value for stname: pooviga

Enter value for staddress: trippur

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(100,'pooviga','trippur')

1 row created.

SQL> insert into stdetails values(&std,'&stname','&staddress');

Enter value for std: 110

Enter value for stname: thirshna

Enter value for staddress: madurai

old 1: insert into stdetails values(&std,'&stname','&staddress')

new 1: insert into stdetails values(110,'thirshna','madurai')

1 row created.

SQL> select \* from stdetails;

STD STNAME STADDRESS

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101 ram erode

102 ravi karur

103 naveena namakkal

10 aswathy salem

100 pooviga trippur

110 thirshna madurai

6 rows selected.

**ADD NEW COLUMN**

SQL> alter table stdetails add(age number(4) default '18');

Table altered.

Adding column

SQL> select \* from stdetails;

STD STNAME STADDRESS AGE

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101 ram erode 18

102 ravi karur 18

103 naveena namakkal 18

10 aswathy salem 18

100 pooviga trippur 18

110 thirshna madurai 18

6 rows selected.

**DROPPING A COLUMN**

SQL> alter table stdetails drop column age;

Table altered.

SQL> select \* from stdetails;

STD STNAME STADDRESS

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101 ram erode

102 ravi karur

103 naveena namakkal

10 aswathy salem

100 pooviga trippur

110 thirshna madurai

6 rows selected.

**MODIFYING EXISTING COLUMN**

SQL> alter table stdetails modify(stname varchar(20));

Table altered.

SQL> DESC stdetails;

Name Null? Type

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STD NOT NULL NUMBER(10)

STNAME VARCHAR2(20)

STADDRESS VARCHAR2(20)

**RENAMING THE TABLES**

SQL> rename stdetails to std;

Table renamed.

SQL> select \* from std;

STD STNAME STADDRESS

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101 ram erode

102 ravi karur

103 naveena namakkal

10 aswathy salem

100 pooviga trippur

110 thirshna madurai

6 rows selected.

**TRUNCATING THE TABLE**

SQL> truncate table std;

Table truncated.

SQL> select \* from std;

no rows selected

**DESTROYING TABLE**

SQL> drop table std;

Table dropped.

SQL> select \* from std;

select \* from std

ERROR at line 1:

ORA-00942: table or view does not exist

**NOT NULL CONSTRAINT**

SQL> create table customers(id int not null, name varchar(20) not null , age int not null ,primary key(id));

Table created.

**DEFAULT CONSTRAINT**

SQL> create table customers(id int not null, name varchar(20) not null , age int not null ,primary key(id),gender varchar(20) default 'female');

Table created.

**UNIQUE CONSTRAINT**

SQL> create table customers(id int not null, name varchar(20) not null , age int not null ,primary key(id),phone int not null unique);

Table created.

**PRIMARY KEY**

SQL> create table customers(id int not null, name varchar(20) not null , age int not null ,primary key(id));

Table created.

**FOREIGN KEY**

SQL> create table customers(id int not null, name varchar(20) not null , age int not null ,primary key(id));

Table created.

SQL> create table orders (

2 id int not null,

3 customer\_id int references customers(id),

4 amount int not null,

5 primary key (id));

Table created.

**CHECK CONSTRAINT**

SQL> create table customers(

2 id int not null,

3 name varchar (20) not null,

4 age int not null check (age >= 18),

5 address char (25) ,

6 salary decimal (18, 2),

7 primary key (id) );

Table created.

**DROPPING CONSTAINTS**

SQL> alter table customers drop primary key;

Table altered.

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**RESULT**

Thusdata definition language commands and integrity constraints were executed.