AIM:

To create a DDL to perform creation of table, alter, modify and drop columns.

DDL COMMANDS

1. The Create Table Command: - it defines each column of the table uniquely. Each column has minimum of three attributes, a name, data type and size.

Syntax:

Create table (<col1> <datatype>(<size>), <col2> <datatype><size>));

Ex:create table emp(empno number(4) primary key, ename char(10));

2. Modifying the structure of tables. a)

Add new columns

Syntax:

Alter table <tablename> add(<new col><datatype(size),<new col>datatype(size));

Ex: alter table emp add(sal number(7,2));

3. Dropping a column from a table.

Syntax:

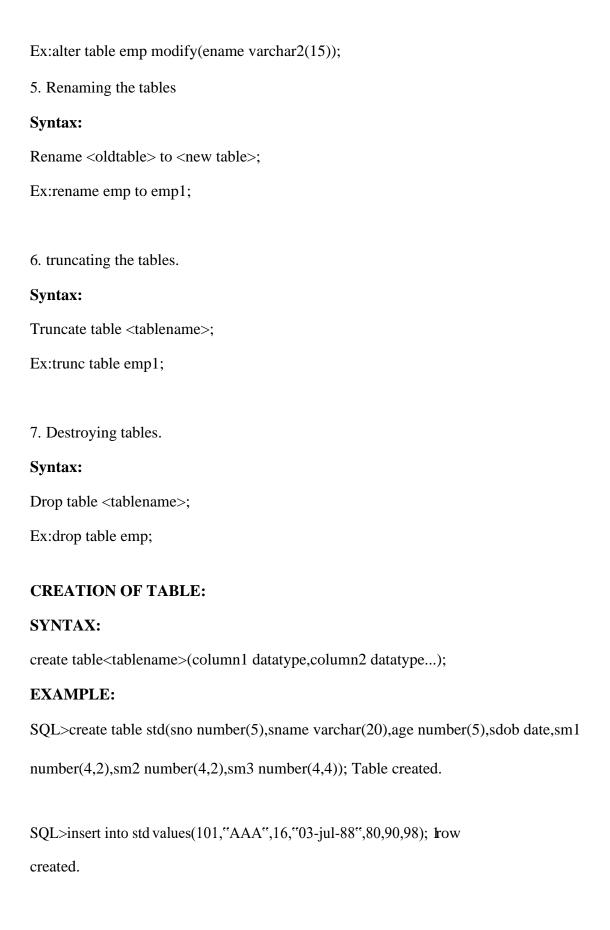
Alter table <tablename> drop column <col>;

Ex:alter table emp drop column sal;

4. Modifying existing columns.

Syntax:

Alter table <tablename> modify(<col><newdatatype>(<newsize>));



SQL>insert into stdvalues(102,"BBB",18,"04-aug-89",88,98,90); Irow created.

OUTPUT:

Select * from std;

 SNO
 SNAME
 AGE
 SDOBSM1
 SM2
 SM3

 101
 AAA
 16
 03-jul-88
 80
 90
 98

 102
 BBB
 18
 04-aug-89
 88
 98
 90

ALTER TABLE WITH ADD:

SQL>create table student(id number(5),name varchar(10),game varchar(20));

Table created.

SQL>insert into student values(1,"mercy","cricket"); Irow

created.

SYNTAX:

alter table<tablename>add(col1 datatype,col2 datatype..);

EXAMPLE:

SQL>alter table student add(age number(4));

SQL>insert into student values(2,"sharmi","tennis",19);

OUTPUT:

ALTER: select * from student;

ID NAME GAME

1 Mercy Cricket

ADD: select * from student;

ID NAME GAME AGE

1 Mercy cricket Sharmi Tennis 19 **ALTER TABLE WITH MODIFY: SYNTAX:** Alter table<tablename>modify(col1 datatype,col2 datatype..); **EXAMPLE:** SQL>alter table student modify(id number(6),game varchar(25)); **OUTPUT: MODIFY** desc student; NAME NULL? TYPE Id Number(6) Name Varchar(20) Game Varchar(25) Age Number(4) **DROP: SYNTAX:** drop table<tablename>; **EXAMPLE:** SQL>drop table student;

TRUNCATE TABLE

SQL>Table dropped.

SYNTAX: TRUNCATE TABLE <TABLE NAME>;

Example: Transact table stud,
DESC
Example: desc emp;
Name Null? Type

Example: Truncate table stud:

EmpNo NOT NULL number(5)

EName VarChar(15)

Job NOT NULL Char(10)

DeptNo NOT NULL number(3)

PHONE_NO number (10)

Queries:

Q1. Create a table called EMP with the following structure.

Name Type

EMPNO NUMBER(6)

ENAME VARCHAR2(20)

JOB VARCHAR2(10)

DEPTNO NUMBER(3)

SAL NUMBER(7,2)

Allow NULL for all columns except ename and job.

Solution:

- 1. Understand create table syntax.
- 2. Use the create table syntax to create the said tables.
- 3. Create primary key constraint for each table as understand from logical table structure.

Ans:

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

Table created.

Q2: Add a column experience to the emp table.

experience numeric null allowed.

Solution:

- 1. Learn alter table syntax.
- 2. Define the new column and its data type.
- 3. Use the alter table syntax.

Ans: SQL> alter table emp add(experience number(2));

Table altered.

Q3: Modify the column width of the job field of emp table.

Solution:

- 1. Use the alter table syntax.
- 2. Modify the column width and its data type.

Ans: SQL> alter table emp modify(job varchar2(12));

Table altered.

SQL> alter table emp modify(job varchar(13));

Table altered.

Q4: Create dept table with the following structure.

Name Type

DEPTNO NUMBER(2)

DNAME VARCHAR2(10)

LOC VARCHAR2(10)

Deptno as the primarykey

Solution:

- 1. Understand create table syntax.
- 2. Decide the name of the table.
- 3. Decide the name of each column and its data type.
- 4. Use the create table syntax to create the said tables.
- 5. Create primary key constraint for each table as understand from logical table structure.

Ans:

SQL> create table dept(deptno number(2) primary key,dname varchar2(10),loc varchar2(10));

Table created.

Q5: drop a column 'experience' to the emp table.

Solution:

1. Learn alter table syntax. Use the alter table syntax to drop the column.

Ans:

SQL> alter table emp drop column experience; Table altered.

Q6: Truncate the emp table and drop the dept table

Solution:

1. Learn drop, truncate table syntax.

Ans: SQL> truncate table emp; Table truncated.

RESULT:

Thus the DDL commands have been executed successfully.