

AIM

To execute data manipulation language, data control language commands and TCL commands.

DATA MANIPULATION LANGUAGE (DML):

1.INSERTING VALUES TO THE TABLE

SQL> create table students(id number(5) primary key, name varchar(15), deptno number(2), maths number(2), english number(2));

Table created.

SQL> desc students

Name	Null?	Type

ID	NOT NULL	NUMBER(5)
NAME		VARCHAR2(15)
DEPTNO		NUMBER(2)
MATHS		NUMBER(2)
ENGLISH		NUMBER(2)

SQL> insert into students values(0001,'jai',10,75,80);

1 row created.

SQL> insert into students values(0002,'ram',11,80,85);

1 row created.

SQL> insert into students values(0003,'lax',11,85,70);

1 row created.

SQL> insert into students values(0004,'mani',10,90,75);

1 row created.

SQL> insert into students values(0005,'alex',11,85,90);

1 row created.

SQL> select * from students;

ID	NAME	DEPTNO	MATHS	ENGLISH
0001	jai	10	75	80
0002	ram	11	80	85
0003	lax	11	85	70
0004	mani	10	90	75
0005	alex	11	85	90

2.UPDATING THE VALUES IN THE TABLE

0001	jai	10	75	80
0002	ram	11	80	85
0003	lax	11	85	75
0004	mani	10	90	75
0005	alex	11	85	75

SQL> update students set english=75 where maths=85;

2 rows updated.

SQL> select * from students;

ID	NAME	DEPTNO	MATHS	ENGLISH
0001	jai	10	75	80
0002	ram	11	80	85
0003	lax	11	85	75
0004	mani	10	90	75
0005	alex	11	85	75

3.SELECT

a) SELECT COLUMNS FROM THE TABLE

SQL> select id, maths from students;

ID	MATHS
0001	75
0002	80
0003	85
0004	90
0005	85

b) SELECT ROWS FROM THE TABLE

SQL> select * from students where maths>85;

ID	NAME	DEPTNO	MATHS	ENGLISH
0004	mani	10	90	75

c) SELECT ENTIRE TABLE

SQL> select * from students;

ID	NAME	DEPTNO	MATHS	ENGLISH
0001	jai	10	75	80
0002	ram	11	80	85
0003	lax	11	85	75
0004	mani	10	90	75
0005	alex	11	85	75

4.DELETE

SQL> delete from students where maths=85;

1 row deleted.

SQL> select * from students;

ID	NAME	DEPTNO	MATHS	ENGLISH
0001	jai	10	75	80
0002	ram	11	80	85
0004	mani	10	90	75

ARRANGE IN ASCENDING ORDER

SQL> select * from students order by id;

ID	NAME	DEPTNO	MATHS	ENGLISH
0001	jai	10	75	80
0002	ram	11	80	85
0004	mani	10	90	75

ARRANGE IN DESCENDING ORDER

SQL> select * from students order by id desc;

ID	NAME	DEPTNO	MATHS	ENGLISH
0004	mani	10	90	75
0002	ram	11	80	85
0001	jai	10	75	80

DATA CONTROL LANGUAGE(DCL):

1.GRANT

a) Grant all privileges

SQL> create user emp identified by us;

User created.

SQL> grant all on students to emp;

Grant succeeded.

b) Grant some privileges of students

SQL> grant select,update,insert on students to emp with grant option;

Grant succeeded.

2.REVOKE

Revoke all privileges

SQL> revoke all on students from emp;

Revoke succeeded.

TRANSACTION CONTROL LANGUAGE(TCL):

1.SAVE POINT

SQL> savepoint sp1;

Savepoint created.

2.ROLL BACK

SQL> roll back sp1;

Rollback complete.

3.COMMIT

SQL> commit;

Commit complete.

4.SET TRANSACTION

SQL> set transaction read only;

Transaction set.

CONTENTS	MARKS ALLOTTED	MARKS OBTAINED
Aim , Algorithm, SQL,PL/SQL	30	
Execution and Result	20	
Viva	10	
Total	60	

RESULT

Thus data manipulation language, data control language commands and TCL commands were executed.