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| **Ex.No.2:** | **DATA MANIPULATION LANGUAGE, DATA CONTROL LANGUAGE COMMANDS AND TCL COMMANDS** |

**Data Manipulation Language (DML):**

1. **INSERTING VALUES INTO THE TABLE**

SQL> create table stud\_details(roll\_no number(10) primary key,name varchar(20),dept varchar(10),cgpa decimal(8));

Table created.

SQL>descstud\_details;

Name Null? Type

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ROLL\_NO NOT NULL NUMBER(10)

NAME VARCHAR2(20)

DEPT VARCHAR2(10)

CGPA NUMBER(8)

SQL> insert into stud\_details values(1255,'Mithun','CSE',9.5);

1 row created.

SQL> insert into stud\_details values(1254,'Rupak','CSE',7.9);

1 row created.

SQL> insert into stud\_details values(1258,'Karthi','IT',NULL);

1 row created.

SQL> insert into stud\_details values(1269,'Jeevan','IT',8);

1 row created.

SQL> insert into stud\_details values(1296,'Yogesh','MTS',8.1);

1 row created.

SQL> select \* from stud\_details;

ROLL\_NO NAME DEPT CGPA

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1255 Mithun CSE 10

1254 Rupak CSE 8

1258Karthi IT 8

1269 Jeevan IT 8

1296 Yogesh MTS 8

1. **UPDATING THE VALUES IN THE TABLE**

SQL> update stud\_details set cgpa=7.1 where name='Karthi';

1 row updated.

SQL> select \* from stud\_details;

ROLL\_NO NAME DEPT CGPA

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1255 Mithun CSE 10

1254 Rupak CSE 8

1258Karthi IT 7

1269 Jeevan IT 8

1296 Yogesh MTS 8

**3.SELECT:**

1. **Select columns from the table**

SQL> select name,dept from stud\_details;

NAME DEPT

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Mithun CSE

Rupak CSE

Karthi IT

Jeevan IT

Yogesh MTS

1. **Select rows from the table**

SQL> select \* from stud\_details where cgpa>7.5;

ROLL\_NO NAME DEPT CGPA

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1255 Mithun CSE 10

1254 Rupak CSE 8

1. Jeevan IT 8

1296 Yogesh MTS 8

1. **Select entire table**

SQL> select \* from stud\_details;

ROLL\_NO NAME DEPT CGPA

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1255 Mithun CSE 10

1254 Rupak CSE 8

1258 Karthi IT 7

1. Jeevan IT 8

1296Yogesh MTS 8

**4. DELETE:**

SQL> delete from stud\_details where cgpa<8;

1 row deleted.

SQL> select \* from stud\_details;

ROLL\_NO NAME DEPT CGPA

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1255 Mithun CSE 10

1254 Rupak CSE 8

1269Jeevan IT 8

1296 Yogesh MTS 8

**ARRANGE IN ASCENDING ORDER**

SQL> select \* from stud\_details order by roll\_no;

ROLL\_NO NAME DEPT CGPA

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1254 Rupak CSE 8

1255 Mithun CSE 10

1269 Jeevan IT 8

1296 Yogesh MTS 8

**ARRANGE IN DESCENDING ORDER**

SQL> select \* from stud\_details order by roll\_nodesc;

ROLL\_NO NAME DEPT CGPA

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1296 Yogesh MTS 8

1269 Jeevan IT 8

1255 Mithun CSE 10

1254 Rupak CSE 8

**Data Control Language (DCL):**

**1. GRANT:**

1. Grant all privileges:

SQL> grant all on stud\_details to sys;

Grant succeeded.

1. Grant some privileges of stud\_details:

SQL> grant select,update,insert on stud\_details to sys with grant option;

Grant succeeded.

**2. REVOKE**

1. Revoke all privileges:

SQL> revoke all on stud\_details from sys;

Revoke succeeded.

1. Revoke some privileges in stud\_details to sys:

**Transaction Control Language(TCL):**

1. **SAVE POINT:** sets a savepoint within a transaction

SQL>savepoint s1;

Savepoint created.

1. **ROLL BACK:** rollbacks a transaction in case of any error occurs.

SQL> roll back s1;

Rollback complete.

1. **COMMIT :** commits a Transaction.

SQL> commit;

Commit complete.

1. **SET TRANSACTION:**

SQL> set transaction read write;

Transaction set.