**DML (DATA MANIPULATION LANGUAGE)**

**1.INSERT STATEMENT**

**2.UPDATE STATEMENT**

mysql> update oit

-> set lastname='roman'

-> where id=101;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from oit;

+------+-----------+----------+

| id | fristname | lastname |

+------+-----------+----------+

| 101 | komal | roman |

| 102 | seema | shinde |

| 103 | sayali | chavan |

| 104 | sayali | chavan |

| 105 | raj | tambe |

+------+-----------+----------+

5 rows in set (0.00 sec)

**2. CREATE TABLE:**

mysql> create table emp(eno int primary key,ename varchar(20),designation varchar(255),salary float,date\_of\_joining varchar(255));

Query OK, 0 rows affected (0.04 sec)

mysql> desc emp;

+-----------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+--------------+------+-----+---------+-------+

| eno | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(255) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | varchar(255) | YES | | NULL | |

+-----------------+--------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(1,'Miss.Priyanka','assistant',800000,'12-5-2020');

Query OK, 1 row affected (0.01 sec)

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(2,'Miss.radhika','Manager',900000,'12-3-2022');

Query OK, 1 row affected (0.01 sec)

mysql> ^C

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(1,'Miss.Balika','assistant',800000,'12-5-2024');

ERROR 1062 (23000): Duplicate entry '1' for key 'emp.PRIMARY'

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(3,'Miss.Priyanka','assistant',800000,'12-5-2020');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from emp;

+-----+---------------+-------------+--------+-----------------+

| eno | ename | designation | salary | date\_of\_joining |

+-----+---------------+-------------+--------+-----------------+

| 1 | Miss.Priyanka | assistant | 800000 | 12-5-2020 |

| 2 | Miss.radhika | Manager | 900000 | 12-3-2022 |

| 3 | Miss.Priyanka | assistant | 800000 | 12-5-2020 |

+-----+---------------+-------------+--------+-----------------+

3 rows in set (0.00 sec)

**ADD EMAIL-**

mysql> alter table emp add column email varchar(20);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp;

+-----------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+--------------+------+-----+---------+-------+

| eno | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(255) | YES | | NULL | |

| salary | float | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+-----------------+--------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

**UPDATE EMAIL-**

mysql> update emp

-> set email='misspri16@gmail.com'

-> where eno=1;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+

| eno | ename | designation | salary | date\_of\_joining | email |

+-----+---------------+-------------+--------+-----------------+---------------------+

| 1 | Miss.Priyanka | assistant | 800000 | 12-5-2020 | misspri16@gmail.com |

| 2 | Miss.radhika | Manager | 900000 | 12-3-2022 | NULL |

| 3 | Miss.Priyanka | assistant | 800000 | 12-5-2020 | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+

3 rows in set (0.00 sec)

**UPDATE SALARY-**

mysql> update emp

-> set salary=salary+(salary\*0.05);

Query OK, 3 rows affected (0.01 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+

| eno | ename | designation | salary | date\_of\_joining | email |

+-----+---------------+-------------+--------+-----------------+---------------------+

| 1 | Miss.Priyanka | assistant | 840000 | 12-5-2020 | misspri16@gmail.com |

| 2 | Miss.radhika | Manager | 945000 | 12-3-2022 | NULL |

| 3 | Miss.Priyanka | assistant | 840000 | 12-5-2020 | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+

3 rows in set (0.00 sec)

**UPDATE POSSSITION-**

mysql> update emp

-> set designation='manager'

-> where ename='miss.priyanka';

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+

| eno | ename | designation | salary | date\_of\_joining | email |

+-----+---------------+-------------+--------+-----------------+---------------------+

| 1 | Miss.Priyanka | manager | 840000 | 12-5-2020 | misspri16@gmail.com |

| 2 | Miss.radhika | Manager | 945000 | 12-3-2022 | NULL |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+

3 rows in set (0.00 sec)

mysql> update emp

-> set designation='assistant'

-> where ename='miss.radhika';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+

| eno | ename | designation | salary | date\_of\_joining | email |

+-----+---------------+-------------+--------+-----------------+---------------------+

| 1 | Miss.Priyanka | manager | 840000 | 12-5-2020 | misspri16@gmail.com |

| 2 | Miss.radhika | assistant | 945000 | 12-3-2022 | NULL |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+

3 rows in set (0.00 sec)

mysql> update emp

-> set designation='manager'

-> where eid=2;

ERROR 1054 (42S22): Unknown column 'eid' in 'where clause'

mysql> update emp

-> set designation='assistant'

-> where eno=1;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+

| eno | ename | designation | salary | date\_of\_joining | email |

+-----+---------------+-------------+--------+-----------------+---------------------+

| 1 | Miss.Priyanka | assistant | 840000 | 12-5-2020 | misspri16@gmail.com |

| 2 | Miss.radhika | assistant | 945000 | 12-3-2022 | NULL |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+

3 rows in set (0.00 sec)

**ADD COLUMN-**

mysql> alter table emp

-> add column city varchar(20);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp;

+-----------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+--------------+------+-----+---------+-------+

| eno | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(255) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | varchar(255) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

+-----------------+--------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

**ADD CITY-**

mysql> update emp

-> set city='kolhapur'

-> where eno=2;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| 1 | Miss.Priyanka | assistant | 840000 | 12-5-2020 | misspri16@gmail.com | NULL |

| 2 | Miss.radhika | assistant | 945000 | 12-3-2022 | NULL | kolhapur |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

3 rows in set (0.00 sec)

**UPDATE CITY-**

mysql> update emp

-> set city='mumbai'

-> where ename='miss.priyanka';

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| 1 | Miss.Priyanka | assistant | 840000 | 12-5-2020 | misspri16@gmail.com | mumbai |

| 2 | Miss.radhika | assistant | 945000 | 12-3-2022 | NULL | kolhapur |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL | mumbai |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

3 rows in set (0.00 sec)

**SALARY LESS-DECREMENT:**

mysql> update emp

-> set salary= salary-(salary\*0.05)

-> where designation='assistant' and city='mumbai';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

| 1 | Miss.Priyanka | assistant | 798000 | 12-5-2020 | misspri16@gmail.com | mumbai |

| 2 | Miss.radhika | assistant | 945000 | 12-3-2022 | NULL | kolhapur |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL | mumbai |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+

3 rows in set (0.00 sec)

**ADD COLUMN-**

mysql> alter table emp

-> add column phone\_no int;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp;

+-----------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+--------------+------+-----+---------+-------+

| eno | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(255) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | varchar(255) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

| phone\_no | int | YES | | NULL | |

+-----------------+--------------+------+-----+---------+-------+

8 rows in set (0.00 sec)

**DATE COLUMN-**

mysql> update emp

-> set date\_of\_joining='14-6-2024'

-> where eno=2;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city | phone\_no |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

| 1 | Miss.Priyanka | assistant | 798000 | 12-5-2020 | misspri16@gmail.com | mumbai | NULL |

| 2 | Miss.radhika | assistant | 945000 | 14-6-2024 | NULL | kolhapur | NULL |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL | mumbai | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

3 rows in set (0.00 sec)

**EXCHANGE DATE-**

mysql> update emp

-> set date\_of\_joining='10-10-2022'

-> where eno=1;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\* from emp;

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city | phone\_no |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

| 1 | Miss.Priyanka | assistant | 798000 | 10-10-2022 | misspri16@gmail.com | mumbai | NULL |

| 2 | Miss.radhika | assistant | 945000 | 14-6-2024 | NULL | kolhapur | NULL |

| 3 | Miss.Priyanka | manager | 840000 | 12-5-2020 | NULL | mumbai | NULL |

+-----+---------------+-------------+--------+-----------------+---------------------+----------+----------+

3 rows in set (0.00 sec)

**DELETE STATEMENT-**

mysql> delete from emp

-> where city='mumbai';

Query OK, 2 rows affected (0.01 sec)

mysql> select\* from emp;

+-----+--------------+-------------+--------+-----------------+-------+----------+----------+

| eno | ename | designation | salary | date\_of\_joining | email | city | phone\_no |

+-----+--------------+-------------+--------+-----------------+-------+----------+----------+

| 2 | Miss.radhika | assistant | 945000 | 14-6-2024 | NULL | kolhapur | NULL |

+-----+--------------+-------------+--------+-----------------+-------+----------+----------+

1 row in set (0.00 sec)

**CREATE EMPLOYEE TABLE=**

mysql> create table emp1(eno int primary key,ename varchar(20),designation varchar(20),salary float,date\_of\_joining varchar(20));

Query OK, 0 rows affected (0.04 sec)

mysql> desc emp1;

+-----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-------------+------+-----+---------+-------+

| eno | int | NO | PRI | NULL | |

| ename | varchar(20) | YES | | NULL | |

| designation | varchar(20) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | varchar(20) | YES | | NULL | |

+-----------------+-------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> insert into emp1(eno,ename,designation,salary,date\_of\_joining)value(1,'siddhi','HR',70000,'12-12-2023'),(2,'siya','CEO',90000,'2-2-2022'),(3,'supriya','assistant',74000,'19-12-2023'),(4,'sonal','HR',79000,'2-1-2023');

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select\* from emp1;

+-----+---------+-------------+--------+-----------------+

| eno | ename | designation | salary | date\_of\_joining |

+-----+---------+-------------+--------+-----------------+

| 1 | siddhi | HR | 70000 | 12-12-2023 |

| 2 | siya | CEO | 90000 | 2-2-2022 |

| 3 | supriya | assistant | 74000 | 19-12-2023 |

| 4 | sonal | HR | 79000 | 2-1-2023 |

+-----+---------+-------------+--------+-----------------+

4 rows in set (0.00 sec)

1.

mysql> select\* from emp1

-> where ename='siddhi';

+-----+--------+-------------+--------+-----------------+

| eno | ename | designation | salary | date\_of\_joining |

+-----+--------+-------------+--------+-----------------+

| 1 | siddhi | HR | 70000 | 12-12-2023 |

+-----+--------+-------------+--------+-----------------+

1 row in set (0.00 sec)

2.

mysql> select salary,designation from emp1

-> where eno=4;

+--------+-------------+

| salary | designation |

+--------+-------------+

| 79000 | HR |

+--------+-------------+

1 row in set (0.00 sec)

3.

mysql> select\* from emp1

-> where designation='CEO';

+-----+-------+-------------+--------+-----------------+

| eno | ename | designation | salary | date\_of\_joining |

+-----+-------+-------------+--------+-----------------+

| 2 | siya | CEO | 90000 | 2-2-2022 |

+-----+-------+-------------+--------+-----------------+

1 row in set (0.00 sec)

4.

mysql> select\* from emp1

-> date\_of\_joining

-> where eno=1;

+-----+--------+-------------+--------+-----------------+

| eno | ename | designation | salary | date\_of\_joining |

+-----+--------+-------------+--------+-----------------+

| 1 | siddhi | HR | 70000 | 12-12-2023 |

+-----+--------+-------------+--------+-----------------+

1 row in set (0.00 sec)

5.

mysql> select eno,ename from emp1

-> where salary>50000;

+-----+---------+

| eno | ename |

+-----+---------+

| 1 | siddhi |

| 2 | siya |

| 3 | supriya |

| 4 | sonal |

+-----+---------+

4 rows in set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary>=50000;

+-----+---------+

| eno | ename |

+-----+---------+

| 1 | siddhi |

| 2 | siya |

| 3 | supriya |

| 4 | sonal |

+-----+---------+

4 rows in set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary=50000;

Empty set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary<=90000;

+-----+---------+

| eno | ename |

+-----+---------+

| 1 | siddhi |

| 2 | siya |

| 3 | supriya |

| 4 | sonal |

+-----+---------+

4 rows in set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary<90000;

+-----+---------+

| eno | ename |

+-----+---------+

| 1 | siddhi |

| 3 | supriya |

| 4 | sonal |

+-----+---------+

3 rows in set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary=90000;

+-----+-------+

| eno | ename |

+-----+-------+

| 2 | siya |

+-----+-------+

1 row in set (0.00 sec)

mysql> select eno,ename from emp1

-> where salary<>90000;

+-----+---------+

| eno | ename |

+-----+---------+

| 1 | siddhi |

| 3 | supriya |

| 4 | sonal |

+-----+---------+

3 rows in set (0.00 sec)