**DML (DATA MANIPULATION LANGUAGE)**

**1.INSERT STATEMENT**

**2.UPDATE STATEMENT**

mysql> create database oit;

Query OK, 1 row affected (0.01 sec)

mysql> use oit;

Database changed

mysql> create table oit(id int not null,firstname varchar(255),lastname varchar(255));

Query OK, 0 rows affected (0.04 sec)

mysql> desc oit;

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

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

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

| id | int | NO | | NULL | |

| firstname | varchar(255) | YES | | NULL | |

| lastname | varchar(255) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> insert into oit(id,firstname,lastname)values(101,'vidhi','jagadale'),(102,'pranita','mohite'),(103,'anuja','jagadale'),(104,'aishwarya','jagadale'),(105,'neha','mane');

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select\*from oit;

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

| id | firstname | lastname |

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

| 101 | vidhi | jagadale |

| 102 | pranita | mohite |

| 103 | anuja | jagadale |

| 104 | aishwarya | jagadale |

| 105 | neha | mane |

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

5 rows in set (0.00 sec)

**Update:**

mysql> **update oit**

-> set lastname='pawar'

-> where id=101;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from oit;

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

| id | firstname | lastname |

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

| 101 | vidhi | pawar |

| 102 | pranita | mohite |

| 103 | anuja | jagadale |

| 104 | aishwarya | jagadale |

| 105 | neha | mane |

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

5 rows in set (0.00 sec)

**Create table employee:**

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 (0.03 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 (0.00 sec)

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(1

,'Miss.priyanka','assistance','80000','12/05/2020');

Query OK, 1 row affected (0.01 sec)

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(2,'Miss.radhika','Manager',60000,'12/03/2022');

Query OK, 1 row affected (0.01 sec)

mysql> insert into emp(eno,ename,designation,salary,date\_of\_joining)values(3

,'Miss.vaishnavi','assistance',70000,'22/02/2024');

Query OK, 1 row affected (0.01 sec)

mysql> select\*from emp;

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

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

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

| 1 | Miss.priyanka | assistance | 80000 | 12/05/2020 |

| 2 | Miss.radhika | Manager | 60000 | 12/03/2022 |

| 3 | Miss.vaishnavi | assistance | 70000 | 22/02/2024 |

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

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 | |

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

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

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

6 rows in set (0.00 sec)

**Update Email:**

mysql> update emp

-> set email='pri12@gmail.com'

-> 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 | assistance | 80000 | 12/05/2020 | pri12@gmail.com |

| 2 | Miss.radhika | Manager | 60000 | 12/03/2022 | NULL |

| 3 | Miss.vaishnavi | assistance | 70000 | 22/02/2024 | 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 | assistance | 84000 | 12/05/2020 | pri12@gmail.com |

| 2 | Miss.radhika | Manager | 63000 | 12/03/2022 | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL |

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

3 rows in set (0.00 sec)

**Update position:**

mysql> update emp

-> set designation='manager'

-> where ename='Miss.priyanka';

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 | 84000 | 12/05/2020 | pri12@gmail.com |

| 2 | Miss.radhika | Manager | 63000 | 12/03/2022 | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | 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 | 84000 | 12/05/2020 | pri12@gmail.com |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL |

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

3 rows in set (0.00 sec)

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 | 84000 | 12/05/2020 | pri12@gmail.com |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL |

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

3 rows in set (0.00 sec)

**Add column city:**

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)

mysql> update emp

-> set city='kolaphour'

-> 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 | 84000 | 12/05/2020 | pri12@gmail.com | NULL |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL | kolaphour |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | NULL |

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

3 rows in set (0.00 sec)

**Update city:**

mysql> update emp

-> set city='mumbai'

-> where ename='Miss.priyanka';

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 | 84000 | 12/05/2020 | pri12@gmail.com | mumbai |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL | kolaphour |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | NULL |

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

3 rows in set (0.00 sec)

mysql> update emp

-> set city='pune'

-> where ename='Miss.vaishnavi';

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 | 84000 | 12/05/2020 | pri12@gmail.com | mumbai |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL | kolaphour |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune |

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

3 rows in set (0.00 sec)

mysql> update emp

-> set city='thane'

-> 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 |

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

| 1 | Miss.priyanka | assistant | 84000 | 12/05/2020 | pri12@gmail.com | thane |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL | kolaphour |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune |

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

3 rows in set (0.00 sec)

**SALARY LESS-DECREMENT:**

mysql> update emp

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

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

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 | 79800 | 12/05/2020 | pri12@gmail.com | thane |

| 2 | Miss.radhika | assistant | 63000 | 12/03/2022 | NULL | kolaphour |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune |

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

3 rows in set (0.00 sec)

**Add column phone no:**

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='14/06/2024'

-> 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 | 79800 | 12/05/2020 | pri12@gmail.com | thane | NULL |

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune | NULL |

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

3 rows in set (0.00 sec)

**Exchange Date:**

mysql> update emp

-> set date\_of\_joining='10/10/2024'

-> 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 | 79800 | 10/10/2024 | pri12@gmail.com | thane | NULL |

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune | NULL |

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

3 rows in set (0.00 sec)

**DELETE STATEMENT:**

mysql> delete from emp

-> where city='thane';

Query OK, 1 row affected (0.01 sec)

mysql> select\*from emp;

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

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

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

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

| 3 | Miss.vaishnavi | assistance | 73500 | 22/02/2024 | NULL | pune | NULL |

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

2 rows in set (0.00 sec)

mysql> select\*from emp

-> where ename='Miss.radhika';

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

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

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

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

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

1 row in set (0.00 sec)

**\*\*\*\*\*SELECT CLAUSE : EXAMPLE**

1)

mysql> select designation,salary from emp

-> where eno=2;

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

| designation | salary |

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

| assistant | 63000 |

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

1 row in set (0.00 sec)

2)

Mysql > select salary, designation from emp

-> where eno=2;

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

| salary | designation |

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

| 63000 | assistant |

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

1 row in set (0.00 sec)

3)

mysql> select\*from emp

-> where designation='assistant';

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

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

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

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

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

1 row in set (0.01 sec)

4)

mysql> select\*from emp

-> date\_of\_joining

-> where eno=1;

Empty set (0.01 sec)

5)

mysql> select\*from emp

-> date\_of\_joining

-> where eno=2;

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

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

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

| 2 | Miss.radhika | assistant | 63000 | 14/06/2024 | NULL | kolaphour | NULL |

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

1 row in set (0.00 sec)

6)

mysql> select eno,ename

-> from emp

-> where salary>50000;

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

| eno | ename |

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

| 2 | Miss.radhika |

| 3 | Miss.vaishnavi |

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

2 rows in set (0.01 sec)

7)

mysql> select eno,ename

-> from emp

-> where salary>=50000;

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

| eno | ename |

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

| 2 | Miss.radhika |

| 3 | Miss.vaishnavi |

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

2 rows in set (0.00 sec)

8)

mysql> select eno,ename

-> from emp

-> where salary=50000;

Empty set (0.00 sec)

9)

mysql> select eno,ename

-> from emp

-> where salary<=90000;

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

| eno | ename |

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

| 2 | Miss.radhika |

| 3 | Miss.vaishnavi |

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

2 rows in set (0.00 sec)

10)

mysql> select eno,ename

-> from emp

-> where salary<90000;

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

| eno | ename |

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

| 2 | Miss.radhika |

| 3 | Miss.vaishnavi |

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

2 rows in set (0.00 sec)

mysql> select eno,ename

-> from emp

-> where salary=63000;

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

| eno | ename |

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

| 2 | Miss.radhika |

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

1 row in set (0.00 sec)

mysql> select eno,ename from emp

-> where salary<>90000;

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

| eno | ename |

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

| 2 | Miss.radhika |

| 3 | Miss.vaishnavi |

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

2 rows in set (0.00 sec)