DML

mysql> create database employee;

Query OK, 1 row affected (0.02 sec)

mysql> use employee;

Database changed

mysql> CREATE TABLE emp(eno int primary key,ename varchar(50),designation

-> varchar(50),salary float,date\_of\_joining date);

Query OK, 0 rows affected (0.06 sec)

mysql> desc emp;

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

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

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

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

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(50) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | date | YES | | NULL | |

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

5 rows in set (0.00 sec)

**1) Add email column in employee table.**

mysql> ALTER TABLE emp ADD COLUMN email varchar(50);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp;

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

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

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

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

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(50) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | date | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO emp(eno, ename, designation, salary, date\_of\_joining, email)

-> VALUES

-> (2, 'Mr.Ram', 'Accountant', 40000, '2001-03-01', ''),

-> (3, 'Mr.Sham', 'Developer', 15000, '2003-11-30', ''),

-> (4, 'Mr.Raghav', 'Manager', 420000, '2003-03-01', ''),

-> (1, 'Mr.Advait', 'Assistant', 54000, '2002-03-23', '');

Query OK, 4 rows affected (0.02 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> desc emp;

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

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

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

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

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(50) | YES | | NULL | |

| salary | float | YES | | NULL | |

| date\_of\_joining | date | YES | | NULL | |

| email | varchar(50) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Assistant | 54000 | 2002-03-23 | |

| 2 | Mr.Ram | Accountant | 40000 | 2001-03-01 | |

| 3 | Mr.Sham | Developer | 15000 | 2003-11-30 | |

| 4 | Mr.Raghav | Manager | 420000 | 2003-03-01 | |

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

4 rows in set (0.00 sec)

mysql> alter table emp drop column email;

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Assistant | 54000 | 2002-03-23 |

| 2 | Mr.Ram | Accountant | 40000 | 2001-03-01 |

| 3 | Mr.Sham | Developer | 15000 | 2003-11-30 |

| 4 | Mr.Raghav | Manager | 420000 | 2003-03-01 |

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

4 rows in set (0.00 sec)

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

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

**2) Update all email of employee present in given table.**

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Assistant | 54000 | 2002-03-23 | NULL |

| 2 | Mr.Ram | Accountant | 40000 | 2001-03-01 | NULL |

| 3 | Mr.Sham | Developer | 15000 | 2003-11-30 | NULL |

| 4 | Mr.Raghav | Manager | 420000 | 2003-03-01 | NULL |

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

4 rows in set (0.00 sec)

mysql> UPDATE emp SET email='mradvait@gmail.com' where eno=1;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET email='ram123@gmail.com' where eno=2;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET email='mrsham3@gmail.com' where eno=3;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET email='mrraghav@gmail.com' where eno=4;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Assistant | 54000 | 2002-03-23 | mradvait@gmail.com |

| 2 | Mr.Ram | Accountant | 40000 | 2001-03-01 | ram123@gmail.com |

| 3 | Mr.Sham | Developer | 15000 | 2003-11-30 | mrsham3@gmail.com |

| 4 | Mr.Raghav | Manager | 420000 | 2003-03-01 | mrraghav@gmail.com |

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

4 rows in set (0.00 sec)

**3) Increase 5% salary of all employee’s.**

mysql> UPDATE emp SET salary=salary+(salary\*0.05);

Query OK, 4 rows affected (0.02 sec)

Rows matched: 4 Changed: 4 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Assistant | 56700 | 2002-03-23 | mradvait@gmail.com |

| 2 | Mr.Ram | Accountant | 42000 | 2001-03-01 | ram123@gmail.com |

| 3 | Mr.Sham | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com |

| 4 | Mr.Raghav | Manager | 441000 | 2003-03-01 | mrraghav@gmail.com |

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

4 rows in set (0.00 sec)

**4) Update the post of Mr.Raghav to Sr.Manager.**

mysql> UPDATE emp SET designation='Sr Manager' where ename='Mr.Raghav';

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 | Mr.Advait | Assistant | 56700 | 2002-03-23 | mradvait@gmail.com |

| 2 | Mr.Ram | Accountant | 42000 | 2001-03-01 | ram123@gmail.com |

| 3 | Mr.Sham | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com |

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

4 rows in set (0.00 sec)

**5) Update the employee position with ‘Sr Assistant Manager’ whose previous post is ‘Assistant’;**

mysql> UPDATE emp SET designation='Sr. Assistant Manager' where designation='Assistant';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com |

| 2 | Mr.Ram | Accountant | 42000 | 2001-03-01 | ram123@gmail.com |

| 3 | Mr.Sham | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com |

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

4 rows in set (0.00 sec)

**6) Add city column into employee column**

mysql> ALTER TABLE emp ADD COLUMN city varchar(50);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com | NULL |

| 2 | Mr.Ram | Accountant | 42000 | 2001-03-01 | ram123@gmail.com | NULL |

| 3 | Mr.Sham | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com | NULL |

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

4 rows in set (0.00 sec)

**7) Update city column**

mysql> UPDATE emp SET city='Pune' where eno=1;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET city='Mumbai',ename='Mr.Roy' where eno=3;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET city='Solapur',designation='CEO' where eno=2;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE emp SET city='Satara' where eno=4;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com | Pune |

| 2 | Mr.Ram | CEO | 42000 | 2001-03-01 | ram123@gmail.com | Solapur |

| 3 | Mr.Roy | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com | Mumbai |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com | Satara |

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

4 rows in set (0.00 sec)

**8) Update record of city of ‘Mr.Advait’ because he is shifted from pune to mumbai**

mysql> UPDATE emp SET city='Mumbai' where ename='Mr.Advait';

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 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com | Mumbai |

| 2 | Mr.Ram | CEO | 42000 | 2001-03-01 | ram123@gmail.com | Solapur |

| 3 | Mr.Roy | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com | Mumbai |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com | Satara |

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

4 rows in set (0.00 sec)

**9) Decrease 5% salary of employee having designation CEO and live in pune**

mysql> UPDATE emp SET salary=salary-(salary\*0.05) where designation='CEO' and

-> city='pune';

Query OK, 0 rows affected (0.01 sec)

Rows matched: 0 Changed: 0 Warnings: 0

**10) Add column Phone\_No into emp table with data type int**

mysql> ALTER TABLE emp ADD COLUMN phone\_no int;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2001-03-01 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2003-11-30 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.00 sec)

**11) Update date\_of\_joining of employee to ‘15/06/2019’ whose name is “Mr.Roy” and belong to mumbai city**

mysql> UPDATE emp SET date\_of\_joining='2019-06-15' WHERE ename='Mr.Roy' and

-> city='Mumbai';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2002-03-23 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2001-03-01 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2019-06-15 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2003-03-01 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.00 sec)

**12) Change Date of joining of employee ‘old date ’ to ' new date'.**

mysql> UPDATE emp SET date\_of\_joining='2020-07-12';

Query OK, 4 rows affected (0.03 sec)

Rows matched: 4 Changed: 4 Warnings: 0

mysql> select \* from emp;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2020-07-12 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2020-07-12 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2020-07-12 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2020-07-12 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.00 sec)

Delete

1) All record are deleted DELETE FROM emp;

2) Delete specific record DELETE FROM emp WHERE rollno=101

Select

1) Display all details of employee whose name is Mr.Roy

mysql> SELECT \* FROM emp WHERE ename='Mr.Roy';

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

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

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

| 3 | Mr.Roy | Developer | 15750 | 2020-07-12 | mrsham3@gmail.com | Mumbai | NULL |

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

1 row in set (0.00 sec)

**2) Display salary and designation of employee whose id is 4**

mysql> SELECT salary,designation FROM emp WHERE eno=4;

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

| salary | designation |

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

| 441000 | Sr Manager |

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

1 row in set (0.00 sec)

**3) Display the details of employee whose designation is ‘ceo’.**

mysql> SELECT \* FROM emp WHERE designation='ceo';

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

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

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

| 2 | Mr.Ram | CEO | 42000 | 2020-07-12 | ram123@gmail.com | Solapur | NULL |

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

1 row in set (0.00 sec)

**4) Display date of joining of employee whose id=1**

mysql> SELECT date\_of\_joining FROM emp WHERE eno=1

-> ;

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

| date\_of\_joining |

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

| 2020-07-12 |

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

1 row in set (0.00 sec)

Relational Operator (>, =, <=, =, <>)

**1) Display the details of employee whose salary is greater than 5000**

mysql> SELECT \* FROM emp WHERE salary>5000;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2020-07-12 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2020-07-12 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2020-07-12 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2020-07-12 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.01 sec)

**2) Display the details of employee whose salary is greater than equal to 5000**

mysql> SELECT \* FROM emp WHERE salary>=5000;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2020-07-12 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2020-07-12 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2020-07-12 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2020-07-12 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.00 sec)

**3) Display the details of employee whose salary is less than equal to 5000**

mysql> SELECT \* FROM emp WHERE salary<=5000;

Empty set (0.00 sec)

**4) Display the details of employee whose salary is less than 5000**

mysql> SELECT \* FROM emp WHERE salary<5000;

Empty set (0.00 sec)

**5) Display the details of employee whose salary is equal to 5000**

mysql> SELECT \* FROM emp WHERE salary=5000;

Empty set (0.00 sec)

**6) Display the details of employee whose salary is not equal 5000**

mysql> SELECT \* FROM emp WHERE salary<>5000;

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

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

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

| 1 | Mr.Advait | Sr. Assistant Manager | 56700 | 2020-07-12 | mradvait@gmail.com | Mumbai | NULL |

| 2 | Mr.Ram | CEO | 42000 | 2020-07-12 | ram123@gmail.com | Solapur | NULL |

| 3 | Mr.Roy | Developer | 15750 | 2020-07-12 | mrsham3@gmail.com | Mumbai | NULL |

| 4 | Mr.Raghav | Sr Manager | 441000 | 2020-07-12 | mrraghav@gmail.com | Satara | NULL |

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

4 rows in set (0.00 sec)