**Logical operator(AND OR,NOT)**

mysql> use employee;

Database changed

mysql> desc employee;

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

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

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

| eid | int | YES | | NULL | |

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

| salary | int | YES | | NULL | |

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

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

4 rows in set (0.01 sec)

mysql> select\* from employee;

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

| eid | ename | salary | designation |

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

| 101 | Sonal shinde | 500000 | Software Developer |

| 102 | sudha patil | 800000 | Software engineer |

| 103 | Sonali pol | 1000000 | Database Administrater |

| 104 | Radha More | 1200000 | UX Designer |

| 105 | Shubham Patil | 500000 | Project Manager |

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

5 rows in set (0.02 sec)

mysql> select\*

-> from employee

-> where salary>=100000 and designation='project manager';

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

| eid | ename | salary | designation |

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

| 105 | Shubham Patil | 500000 | Project Manager |

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

1 row in set (0.00 sec)

mysql> select\*

-> from employee

-> where salary>=100000 or designation='project manager';

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

| eid | ename | salary | designation |

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

| 101 | Sonal shinde | 500000 | Software Developer |

| 102 | sudha patil | 800000 | Software engineer |

| 103 | Sonali pol | 1000000 | Database Administrater |

| 104 | Radha More | 1200000 | UX Designer |

| 105 | Shubham Patil | 500000 | Project Manager |

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

5 rows in set (0.00 sec)

**Distinct**

**1.**

mysql> select distinct city

-> from employee;

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

| city |

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

| pune |

| satara |

| kolhapur |

| sangli |

2.

mysql> select distinct date

-> from employee

-> where eid>=101;

+-------+

| date |

+-------+

| -1985 |

| -1987 |

+-------+

2 rows in set (0.00 sec)

3.

mysql> select distinct city

-> from employee

-> where eid>=102 and city='satara';

+--------+

| city |

+--------+

| satara |

+--------+

1 row in set (0.00 sec)

**Between –**

**1.**

mysql> select ename,salary

-> from employee

-> where eid between 101 and 103;

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

| ename | salary |

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

| Sonal shinde | 500000 |

| sudha patil | 800000 |

| Sonali pol | 1000000 |

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

3 rows in set (0.00 sec)

**Between Or**

mysql> select\*

-> from employee

-> where eid>=101 and eid<=104;

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

| eid | ename | salary | designation | city | date |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 |

| 104 | Radha More | 1200000 | UX Designer | kolhapur | -1985 |

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

4 rows in set (0.00 sec)

**Between IN**

mysql> select\*

-> from employee

-> where city IN('pune','satara');

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

| eid | ename | salary | designation | city | date |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 |

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

3 rows in set (0.00 sec)

**OR**

**Between Or**

mysql> select\*

-> from employee

-> where city='pune' or city='satara';

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

| eid | ename | salary | designation | city | date |

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

| 101 | Sonal shinde | 500000 | Software Developer | pune | -1985 |

| 102 | sudha patil | 800000 | Software engineer | satara | -1985 |

| 103 | Sonali pol | 1000000 | Database Administrater | satara | -1985 |

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

3 rows in set (0.00 sec)

**New create database e:**

mysql> create database e;

Query OK, 1 row affected (0.01 sec)

mysql> create table e(eno int,ename varchar(50),designation varchar(50),city varchar(50),date\_of\_joining varchar(50),email varchar(20),salary int,phoneno int);

Query OK, 0 rows affected (0.05 sec)

mysql> desc e;

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

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

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

| eno | int | YES | | NULL | |

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

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

| city | varchar(50) | YES | | NULL | |

| date\_of\_joining | varchar(50) | YES | | NULL | |

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

| salary | int | YES | | NULL | |

| phoneno | int | YES | | NULL | |

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

8 rows in set (0.01 sec)

mysql> insert into e values(101,'Suhani','Assistant','satara','12-12-2022','s@gmail.com',20000,1234567890),

-> (102,'Kajal','CEO','pune','11-10-2022','k@gmail.com',40000,1234567890),

-> (103,'Vedika','Cashier','Surat','1-11-2024','v@gmail.com',200000,1234567890),

-> (104,'Nayra','HR','gujrat','21-4-2022','n@gmail.com',400000,1234567890),

-> (105,'Angha','manager','Mumbai','14-1-2022','a@gmail.com',50000,1234567890),

-> (106,'Priya','CEO','Kolhapur','11-10-2012','p@gmail.com',400000,1234567890),

-> (107,'Manjali','HR','Sangli','11-7-2022','m@gmail.com',100000,1234567890),

-> (108,'Neha','developer','solapur','19-1-2022','n@gmail.com',42000,1234567890),

-> (109,'Harshda','tester','wai','11-12-2022','h@gmail.com',40000,1234567890),

-> (110,'Rani','assistant','delhi','16-4-2016','r@gmail.com',460000,1234567890);

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select\* from e;

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

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

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

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 20000 | 1234567890 |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 40000 | 1234567890 |

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 200000 | 1234567890 |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 400000 | 1234567890 |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 50000 | 1234567890 |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 400000 | 1234567890 |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 100000 | 1234567890 |

| 108 | Neha | developer | solapur | 19-1-2022 | n@gmail.com | 42000 | 1234567890 |

| 109 | Harshda | tester | wai | 11-12-2022 | h@gmail.com | 40000 | 1234567890 |

| 110 | Rani | assistant | delhi | 16-4-2016 | r@gmail.com | 460000 | 1234567890 |

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

10 rows in set (0.00 sec)

**Q1.Display the details of employee where salary>100000 and his/her post is ‘ceo’.**

mysql> SELECT ename, salary FROM e WHERE salary > 10000 AND designation = 'CEO';

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

| ename | salary |

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

| Kajal | 40000 |

| Priya | 400000 |

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

2 rows in set (0.00 sec)

**Q2.Display name of employee whose belongs to either pune or Mumbai.**

mysql> select ename from e where city='pune' or city='mumbai';

+-------+

| ename |

+-------+

| Kajal |

| Angha |

+-------+

2 rows in set (0.00 sec)

**Q3.Display the details of employee whose salary > 500000 and he/she having designation Manager and ceo.**

mysql> SELECT ename, salary FROM e WHERE salary > 50000 AND (designation = 'manager' OR designation = 'ceo');

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

| ename | salary |

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

| Priya | 400000 |

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

1 row in set (0.00 sec)

**Q4.Update salary of employee with 5% who salary > 50000 and phone no=’1234567890’;**

mysql> UPDATE e SET salary = salary+(salary \* 1.05) WHERE salary > 10000 AND phoneno = '1234567890';

Query OK, 10 rows affected (0.00 sec)

Rows matched: 10 Changed: 10 Warnings: 0

mysql> select\* from e;

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

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

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

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 |

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 410000 | 1234567890 |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 |

| 108 | Neha | developer | solapur | 19-1-2022 | n@gmail.com | 86100 | 1234567890 |

| 109 | Harshda | tester | wai | 11-12-2022 | h@gmail.com | 82000 | 1234567890 |

| 110 | Rani | assistant | delhi | 16-4-2016 | r@gmail.com | 943000 | 1234567890 |

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

10 rows in set (0.00 sec)

**Q4. Delete the details of employee whose id .**

mysql> delete from e where eno=110;

Query OK, 1 row affected (0.00 sec)

mysql> select\* from e;

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

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

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

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 |

| 102 | Kajal | CEO | pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 |

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 410000 | 1234567890 |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 |

| 108 | Neha | developer | solapur | 19-1-2022 | n@gmail.com | 86100 | 1234567890 |

| 109 | Harshda | tester | wai | 11-12-2022 | h@gmail.com | 82000 | 1234567890 |

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

9 rows in set (0.00 sec)

**Q5. Display unique city employee designation is ‘ceo’.**

mysql> SELECT DISTINCT city FROM e WHERE designation = 'ceo';

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

| city |

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

| pune |

| Kolhapur |

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

2 rows in set (0.00 sec)

**Q6. Display the details of details of employee whose salary between 100000 to 500000 and city is mumbai.**

mysql> SELECT \* FROM e WHERE salary BETWEEN 100000 AND 500000 AND city = 'mumbai';

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

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

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

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 |

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

1 row in set (0.00 sec)

**Q7. Display name of employee whose id between 101 to 105 or his name is angha.**

mysql> SELECT \* FROM e WHERE eno BETWEEN 101 AND 105 AND city = 'mumbai';

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

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

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

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 |

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

1 row in set (0.00 sec)

**Q8. Update city of employee to ‘pune’ whose salary is between 50000 to 100000.**

mysql> UPDATE e SET city = 'Pune' WHERE salary BETWEEN 50000 AND 100000;

Query OK, 3 rows affected (0.01 sec)

Rows matched: 3 Changed: 3 Warnings: 0

mysql> select\* from e;

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

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

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

| 101 | Suhani | Assistant | satara | 12-12-2022 | s@gmail.com | 41000 | 1234567890 |

| 102 | Kajal | CEO | Pune | 11-10-2022 | k@gmail.com | 82000 | 1234567890 |

| 103 | Vedika | Cashier | Surat | 1-11-2024 | v@gmail.com | 410000 | 1234567890 |

| 104 | Nayra | HR | gujrat | 21-4-2022 | n@gmail.com | 820000 | 1234567890 |

| 105 | Angha | manager | Mumbai | 14-1-2022 | a@gmail.com | 102500 | 1234567890 |

| 106 | Priya | CEO | Kolhapur | 11-10-2012 | p@gmail.com | 820000 | 1234567890 |

| 107 | Manjali | HR | Sangli | 11-7-2022 | m@gmail.com | 205000 | 1234567890 |

| 108 | Neha | developer | Pune | 19-1-2022 | n@gmail.com | 86100 | 1234567890 |

| 109 | Harshda | tester | Pune | 11-12-2022 | h@gmail.com | 82000 | 1234567890 |

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

9 rows in set (0.00 sec)