**SQL LIKE Operator:**

mysql> use e;

Database changed

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 (0.00 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 | 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)

mysql> select\*

-> from e

-> where ename like 's%';

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

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

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

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

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

1 row in set (0.08 sec)

**Employee Name LIKE‘%a’**

mysql> select \*

-> from e

-> where ename like '%a';

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

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

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

| 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 |

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

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

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

6 rows in set (0.00 sec)

**Employee Name like%ja%**

mysql> select \*

-> from e

-> where ename like'%ja%';

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

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

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

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

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

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

2 rows in set (0.00 sec)

**Employee Name LIKE‘\_a%’**

mysql> select \*

-> from e

-> where ename LIKE'\_a%';

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

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

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

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

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

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

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

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

4 rows in set (0.00 sec)

**Employee Name LIKE‘M\_\_%’**

mysql> select \*

-> from e

-> where ename like 'M\_\_%';

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

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

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

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

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

1 row in set (0.00 sec)

**Employee Name LIKE ’h\_%’**

mysql> select \*

-> from e

-> where ename like'h\_%';

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

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

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

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

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

1 row in set (0.00 sec)

**Employee Name LIKE‘%s%’**

mysql> select \*

-> from e

-> where ename LIKE '%s%';

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

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

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

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

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

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

2 rows in set (0.00 sec)

**Employee Name LIKE’\_\_d\_\_a%’;**

mysql> select \*

-> from e

-> where ename like '\_\_d\_\_a%';

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

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

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

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

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

1 row in set (0.00 sec)

**NOT Examole:-**

mysql> select \*

-> from e

-> where NOT city='pune';

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

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

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

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

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

6 rows in set (0.00 sec)

**The SQL ORDER BY Keyword:**

**Descending Order**

mysql> select \*

-> from e

-> ORDER BY city desc;

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

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

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

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

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

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

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

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

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

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

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

9 rows in set (0.06 sec)

**Ascending Order:**

mysql> select \*

-> from e

-> ORDER BY ename asc;

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

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

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

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

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

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

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

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

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

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

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

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

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

9 rows in set (0.00 sec)

**1..Display the employee details in desending order.**

mysql> select\*

-> from e

-> where eno >=103 ORDER BY eno desc;

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

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

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

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

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

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

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

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

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

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

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

7 rows in set (0.00 sec)

**2.Display the employee details in the eid 105 greater the equal to city and order by ascending.**

mysql> select \*

-> from e

-> where eno>=105 AND city like'M%'ORDER BY eno;

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

| 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)

**3.Display the employee and order by city ascending.**

mysql> select \*

-> from e

-> ORDER BY city;

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

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

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

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

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

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

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

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

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

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

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

9 rows in set (0.00 sec)

**Que 8: Display name of employee whose name start with s and ends with i and designation is assistant and he/she belong to satara**

mysql> SELECT ename FROM e WHERE ename LIKE's%i' AND designation ='assistant' and city in ('satara');

+--------+

| ename |

+--------+

| Suhani |

+--------+

1 row in set (0.00 sec)

**Que 9: Display the details of employee whose email contains .caracter and salary between 1000000 and 1200000 or employe eno is either 103,104.**

**mysql> SELECT \* FROM e WHERE (ename LIKE '%.%' AND salary BETWEEN 1000000 AND 1200000) OR eno IN (103, 104);**

**+------+--------+-------------+--------+-----------------+-------------+--------+------------+**

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

**+------+--------+-------------+--------+-----------------+-------------+--------+------------+**

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

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

**+------+--------+-------------+--------+-----------------+-------------+--------+------------+**

**2 rows in set (0.00 sec)**

**Que 10: Displayname,designation& employee where name having third character is r and ends with a.**

mysql> SELECT ename, designation FROM e WHERE ename LIKE 'h%\_a';

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

| ename | designation |

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

| Harshda | tester |

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

1 row in set (0.00 sec)