

```
mysql> SELECT *
-> FROM EMP
-> WHERE JOB='SALESMAN' AND SAL>30000;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

3 rows in set (0.00 sec)

REQ-3 : WAQTD THE DETAILS OF EMP WHOSE ANNUAL SALARY IS 6 LAKH.

```
SELECT *,SAL*12
FROM EMP
WHERE SAL*12=600000;
```

```
mysql> SELECT *,SAL*12 Annual_Salary
-> FROM EMP
-> WHERE JOB='SALESMAN';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID	Annual_Salary
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL	540000.00
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL	540000.00
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL	480000.00

3 rows in set (0.00 sec)

OPERATORS in MySQL

- Arithmetic Operator
- Relational Operator
- Logical Operator
- Special Operator

Special Operators

- **IN/NOT IN Operator**
 - IN Operator is a multivalued operator which takes single value at LHS and multiple values at RHS.
 - IN operator works in the form of OR operator.
 - NOT IN operator works in the form of AND operator.

Syntax:

column_name IN/NOT IN (v1,v2,...,vn);

REQ-1 : WAQTD THE DETAILS OF EMP WHO IS WORKING AS SALESMAN, MANAGER OR DEVELOPER.

SELECT *
FROM EMP
WHERE JOB='DEVELOPER' OR JOB='SALESMAN' OR JOB='DEVELOPER';



```
mysql> SELECT *
-> FROM EMP
-> WHERE JOB='SALESMAN' OR JOB='MANAGER' OR JOB='DEVELOPER';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	Fariya	Taj	1999-01-03	F	Developer	1601	2021-03-01	32000.00	3600.00	113	NULL
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

7 rows in set (0.10 sec)

SELECT *
FROM EMP
WHERE JOB IN ('DEVELOPER', 'SALESMAN', 'DEVELOPER')



```
mysql> SELECT *
-> FROM EMP
-> WHERE JOB IN ('SALESMAN', 'MANAGER', 'DEVELOPER');
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	Fariya	Taj	1999-01-03	F	Developer	1601	2021-03-01	32000.00	3600.00	113	NULL
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

7 rows in set (0.00 sec)

REQ-2 : WAQTD THE DETAILS OF EMP WHO IS NOT WORKING IN DEPT 110, 111 AND 113.

SELECT *
FROM EMP
WHERE DNO!=110 AND DNO!=111 AND DNO!=113;



```
mysql> SELECT *
-> FROM EMP
-> WHERE DNO!=110 AND DNO!=111 AND DNO!=113;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1602	Hema	Shetty	1996-03-20	F	Hr	1601	2016-10-20	150000.00	NULL	114	507
2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL
2201	Kiran	Raj	1999-09-21	M	Accountant	1602	2022-08-28	30000.00	3600.00	112	503

3 rows in set (0.00 sec)

```
SELECT *
FROM EMP
WHERE DNO NOT IN (110,111,113);
```



```
mysql> SELECT *
-> FROM EMP
-> WHERE DNO NOT IN (110,111,113);
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1602	Hema	Shetty	1996-03-20	F	Hr	1601	2016-10-20	150000.00	NULL	114	507
2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL
2201	Kiran	Raj	1999-09-21	M	Accountant	1602	2022-08-28	30000.00	3600.00	112	503

3 rows in set (0.00 sec)

- **BETWEEN/NOT BETWEEN Operator**
 - Whenever we come across range of values, BETWEEN operators are used.
 - BETWEEN operators will include the range values.

Syntax:

column_name BETWEEN/NOT BETWEEN lower_range AND higher_range;

REQ-1 : WAQTD THE DETAILS OF EMP WHO WAS BORN DURING THE YEAR 1995.

```
SELECT *
FROM EMP
WHERE DOB BETWEEN '1995-01-01' AND '1995-12-31';
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE DOB BETWEEN '1995-01-01' AND '1995-12-31';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL

2 rows in set (0.01 sec)

REQ-2 : WAQTD THE DETAILS OF EMP WHO IS NOT GETTING SALARY IN THE RANGE OF 32000 AND 45000.

```
SELECT *
FROM EMP
WHERE SAL NOT BETWEEN 32000 AND 45000;
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE SAL NOT BETWEEN 32000 AND 45000;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1601	Siddarth	Patil	1985-11-24	M	Ceo	NULL	2016-01-16	500000.00	NULL	113	NULL
1602	Hema	Shetty	1996-03-20	F	Hr	1601	2016-10-20	150000.00	NULL	114	507
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
1902	Abhijit	Gowda	1997-12-25	M	Dispatcher	1702	2019-12-28	50000.00	NULL	110	505
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2201	Kiran	Raj	1999-09-21	M	Accountant	1602	2022-08-28	30000.00	3600.00	112	503

7 rows in set (0.00 sec)

- **IS Operator**

- IS operator is used to check whether the given condition is null or not null.

Syntax:

column_name IS NULL/NOT NULL;

REQ-1 : WAQTD THE DETAILS OF EMP IF THE EMP IS GETTING ANY COMM.

```
SELECT *
FROM EMP
WHERE COMM IS NOT NULL;
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE COMM IS NOT NULL;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1801	Jahnavi	Naik	1996-04-11	F	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
2001	Murali	Krishnan	1998-06-08	M	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	Fariya	Taj	1999-01-03	F	Developer	1601	2021-03-01	32000.00	3600.00	113	NULL
2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL
2201	Kiran	Raj	1999-09-21	M	Accountant	1602	2022-08-28	30000.00	3600.00	112	503

7 rows in set (0.00 sec)

REQ-2 : WAQTD THE DETAILS OF EMP IF THE EMP IS NOT A CUSTOMER OF COMPANY.

```
SELECT *
FROM EMP
WHERE CID IS NULL;
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE CID IS NULL;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1601	Siddarth	Patil	1985-11-24	M	Ceo	NULL	2016-01-16	500000.00	NULL	113	NULL
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
1801	Jahnnavi	Naik	1996-04-11	F	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2001	Murali	Krishnan	1998-06-08	M	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	Fariya	Taj	1999-01-03	F	Developer	1601	2021-03-01	32000.00	3600.00	113	NULL
2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

11 rows in set (0.04 sec)

- **LIKE/NOT LIKE Operator**
 - LIKE Operators are used to match the patterns.
 - There are two wildcards available in LIKE operator.

Syntax:

column_name **LIKE/NOT LIKE** 'pattern_to_match';

REQ-1 : WAQTD THE DETAILS OF EMP IF THE EMP NAME STARTS WITH A.

```
SELECT *
FROM EMP
WHERE FNAME LIKE 'A%';
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE FNAME LIKE 'A%';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1902	Abhijit	Gowda	1997-12-25	M	Dispatcher	1702	2019-12-28	50000.00	NULL	110	505
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

2 rows in set (0.06 sec)

REQ-2 : WAQTD THE DETAILS OF EMP IF THE EMP NAME ENDS WITH H.

```
SELECT *
FROM EMP
WHERE FNAME LIKE '%H';
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE FNAME LIKE '%H';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1601	Siddarth	Patil	1985-11-24	M	Ceo	NULL	2016-01-16	500000.00	NULL	113	NULL

1 row in set (0.00 sec)

REQ-3 : WAQTD THE DETAILS OF EMP IF THE JOB CONTAINS MAN IN IT.

```
SELECT *
FROM EMP
WHERE JOB LIKE '%MAN%';
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE JOB LIKE '%MAN%';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1702	Sameer	Khan	1995-04-20	M	Manager	1602	2017-07-07	120000.00	NULL	110	NULL
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

5 rows in set (0.00 sec)

REQ-4 : WAQTD THE EMP FNAME IF THE FNAME DOESNOT END WITH S AND A.

```
SELECT FNAME
FROM EMP
WHERE FNAME NOT LIKE 'S%' AND FNAME NOT LIKE 'A%';
```

```
mysql> SELECT *
-> FROM EMP
-> WHERE FNAME NOT LIKE 'S%' AND FNAME NOT LIKE 'A%';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1602	Hema	Shetty	1996-03-20	F	Hr	1601	2016-10-20	150000.00	NULL	114	507
1701	Rahul	Mukharjee	1991-02-19	M	Manager	1602	2017-04-17	100000.00	NULL	111	NULL
1801	Jahnavi	Naik	1996-04-11	F	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
1903	Karan	Bhat	1997-12-26	M	Salesman	1701	2019-12-26	45000.00	NULL	111	NULL
2001	Murali	Krishnan	1998-06-08	M	Dispatcher	1702	2020-03-15	45000.00	1000.00	110	NULL
2002	Dharani	Patil	1998-11-10	F	Developer	1601	2021-06-20	30000.00	3000.00	113	NULL
2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	Fariya	Taj	1999-01-03	F	Developer	1601	2021-03-01	32000.00	3600.00	113	NULL
2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL
2201	Kiran	Raj	1999-09-21	M	Accountant	1602	2022-08-28	30000.00	3600.00	112	503

10 rows in set (0.04 sec)