

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	->	SELECT * FROM EMP WHERE JOB:	='SALESM/	AN' AND SAL>3	9000;							
2101   Rashmi   Gowda   1995-10-03   F     Salesman   1701   2021-01-02   45000.00   3000.00   111   NULL	EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
	2101	Rashmi	Gowda	1995-10-03	F	Salesman	1701	2021-01-02	45000.00	3000.00	111	NULL

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

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

-> ->	SELECT *,S FROM EMP WHERE JOB=	SALESM!										
EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID	Annual_Salary
1903   2101   2104	Karan   Rashmi   Aman	Bhat Gowda Rai	1997-12-26 1995-10-03 1998-08-15	F	Salesman Salesman Salesman	1701   1701   1701	2019-12-26 2021-01-02 2021-12-26	45000.00 45000.00 40000.00	NULL 3000.00 NULL	111 111 111	NULL NULL NULL	540000.00   540000.00   480000.00
rows	in set (0.	.00 sec)		r						r	r	

#### **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';



	FROM EMP WHERE JOB=	'SALESMAN' OF	R JOB='MANAGER	R' OR JOB	"DEVELOPER"						
EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	СОММ	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	М	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	М	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

## **SELECT \***

#### FROM EMP

## WHERE JOB IN ('DEVELOPER', 'SALESMAN', 'DEVELOPER')



	FROM EMP WHERE JOB	IN ('SALESMAN	N','MANAGER',	DEVELOPER	R');						
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

## 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;





## SELECT \*

#### **FROM EMP**

## WHERE DNO NOT IN (110,111,113);



EID	->	SELECT * FROM EMP WHERE DNO	NOT IN	(110,111,113)								
2103   Priya   Shettý   1998-03-20   F   Accountant   1602   2021-05-01   32000.00   3600.00   112   NULL	EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	СОММ	DNO	CID
	2103	Priya	Shetty	1998-03-20	F	Accountant	1602	2021-05-01	32000.00	3600.00	112	NULL

## • 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';

->	SELECT * FROM EMP WHERE DOB	BETWEEN	'1995-01-01'	AND '1995	5-12-31';						
EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1702   2101	Sameer   Rashmi	Khan   Gowda	1995-04-20   1995-10-03	M	Manager Salesman	1602 1701	2017-07-07   2021-01-02	120000.00 45000.00	NULL 3000.00	110 111	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 3	2000 AND 45000	9;							
EID   FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	СОММ	DNO	CID
1601   Siddarth   1602   Hema   1701   Rahul   1702   Sameer   1902   Abhijit   2002   Dharani   2201   Kiran	Patil Shetty Mukharjee Khan Gowda Patil Raj	1985-11-24   1996-03-20   1991-02-19   1995-04-20   1997-12-25   1998-11-10   1999-09-21	M   F   M   M   M   F	Ceo Hr Manager Manager Dispatcher Developer Accountant	NULL   1601   1602   1602   1702   1601   1602	2016-01-16 2016-10-20 2017-04-17 2017-07-07 2019-12-28 2021-06-20 2022-08-28	500000.00 150000.00 100000.00 120000.00 50000.00 30000.00	NULL NULL NULL NULL NULL 3000.00	113   114   111   110   110   113   112	NULL   507   NULL   NULL   505   NULL   503

## • 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;

	·	+	+	·	·				+	·	+
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

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

SELECT \*
FROM EMP
WHERE CID IS NULL;



-> 1	SELECT * FROM EMP WHERE CID IS	S NULL;									
EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	СОММ	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	М	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	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
2104	Aman	Rai	1998-08-15	M	Salesman	1701	2021-12-26	40000.00	NULL	111	NULL

#### • 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%';
 FID | FNAME
                 I LNAME | DOB
                                       GENDER | JOB
                                                             MGR
                                                                    DOJ
                                                                                 SAL
                                                                                            COMM |
                                                                                                   DNO
                                                                                                          CTD
                           1997-12-25
                                                 Dispatcher
                                                              1702
 2104 | Aman
                  Rai
                          1998-08-15
                                                             1701
                                                                    2021-12-26
                                                                                 40000.00
                                                                                            NULL
                                                                                                    111 İ
                                                                                                          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';

->	SELECT * FROM EMP WHERE FNAME									·	
EID	FNAME	LNAME	:	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1601			1985-11-24		Ceo		2016-01-16		NULL		
	in set (0.00										



#### 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 GENDER | JOB MGR COMM DNO CID LNAME 1701 Rahul Mukharjee 1991-02-19 Manager 1602 2017-04-17 100000.00 NULL 111 NULL 1995-04-20 2017-07-07 120000.00 NULL 1702 1602 NULL 110 Sameer Khan Manager 1701 1903 1997-12-26 2019-12-26 45000.00 NULL NULL Karan Bhat Salesman 111 2101 Rashmi Gowda 1995-10-03 Salesman 1701 2021-01-02 45000.00 3000.00 111 NULL 2104 М Aman Rai 1998-08-15 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 FMP -> WHERE FNAME NOT LIKE 'S%' AND FNAME NOT LIKE 'A%'; EID FNAME LNAME GENDER | JOB MGR DOJ SAL COMM DNO CID 1602 1996-03-20 2016-10-20 150000.00 507 Hema Shetty Hr 1601 NULL 114 2017-04-17 1701 Mukharjee 1991-02-19 1602 100000.00 NULL Rahul Manager NULL 111 1801 Jahnavi Naik 1996-04-11 Dispatcher 1702 2020-03-15 45000.00 1000.00 110 NULL 1903 Karan Bhat 1997-12-26 М Salesman 1701 2019-12-26 45000.00 NULL 111 NULL Murali 1998-06-08 1702 2020-03-15 45000.00 1000.00 110 2001 Krishnan М Dispatcher NULL 2002 Dharani Patil 1998-11-10 1601 2021-06-20 30000.00 3000.00 113 NULL Developer 2101 Rashmi Gowda 1995-10-03 Salesman 1701 2021-01-02 45000.00 3000.00 111 NULL 2102 Fariya Taj 1999-01-03 Developer 1601 2021-03-01 32000.00 3600.00 113 NULL Shetty Accountant 2103 Priya 1998-03-20 1602 2021-05-01 32000.00 3600.00 112 NULL 2201 Kiran 1999-09-21 1602 2022-08-28 30000.00 3600.00 112 503 Rai Accountant 10 rows in set (0.04 sec)