**SPECIAL OPERATORS**

**BETWEEN NOT BETWEEN**

**IN NOT IN**

**IS NULL IS NOT NULL**

**LIKE NOT LIKE**

**BETWEEN**

It is useful to write a condition based on range of values.

Syntax :-

SELECT cl1, cl2,...... / \* FROM TBL WHERE <Col> BETWEEN <st\_val> AND <end\_val>;

Ex: write a query to print employee details with min salary 30000 and max salary 40000?

Select \* from emps where salary between 30000 and 40000;

Ex: write a query to print employee details who joined in the year 2012?

Select \* from emps where joindt between ‘2012/01/01’ and ‘2012/12/31’;

**NOT BETWEEN**

It is the negation of between operator.

Ex: get employee details who did not joined in 2012?

Select \* from emps where joindt NOT between ‘2012/01/01’ and ‘2012/12/31’;

**IN**

we can write a condition based on list of values from a column.

**Syntax:**

select cl1, cl2,.... / \* from TBL where <Col> IN(val1, val2, val3, .....);

Ex: Write a query to print admin and developer details?

Select \* from emps where disig **in**(‘admin’,’developer’);

**NOT IN**

It is the negation of IN operator.

**Ex:** get employee details except admin and developer?

Select \* from emps where disig **not in**(‘admin’,’developer’);

**IS NULL**

It used to check the column value is null or not, if it is null, result will be printed.

**Syntax:**

SELECT cl1, cl2,.... / \* FROM TBL WHERE <col> IS NULL;

Ex: get employee details if the emp don’t have empid?

Select \* from emps where empid is null;

**IS NOT NULL**

It is the negation of **IS NULL** operator.

Ex: get employee details if the emp don’t have empid?

Select \* from emps where empid **is not null**;

**LIKE**

It is useful to write a condition to search for a pattern. A pattern is char / digit / symbol or group of them. we can write a pattern by using 2 symbols.

**\_** (underscore) Represents anyone char.

**%** Represents zero or 1 or any number of chars.

**syntax:**

select cl1, cl2,.... / \* from TBL where <Col> LIKE'pattern' [ESCAPE 'ch'];

Ex: dispaly 3 digit salaries?

select sal from emp where sal like'\_\_\_';

Ex: display names of emps begins S?

select ename from emp where ename like'S%';

**LIKE Operator with ESCAPE character**

**ESCAPE 'char'**

It removes the meaning of a char preceding with escape character.

Ex:

select ename from emp\_info where ename like'%\\_%' ESCAPE '\';

Ex:

select ename from emp\_info where ename like'%\%%' ESCAPE '\';

ENAME

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amit%mgr

jacks%mgr

**LOGICAL OPERATORS**

These operators are used to write Multiple conditions under where clause.

**AND** Display output if all conditions are true in a record. If any one condition was failed then it will not display output.

**OR** Display output if anyone condition is true in a record. If all conditions are false then it will not display output.

Syntax:

SELECT cl1,cl2,....., / \* FROM <TBL> WHERE <c-1> [AND / OR] <c-2> ;

Ex: Display manager details getting above 2500 sal?

select \* from emp

where job='MANAGER' and sal>2500;

Ex: Display clerks and salesman details if their salary at least 1000 and atmost 1500?

select ename,sal,job from emp

where job in('CLERK','SALESMAN') AND sal between 1000 and 1500;

Ex: Display salary account details having below 100000 balance?

select \* from cust\_act\_dtls where act\_type='sal' and bal <100000;