

--Clauses/filters

--We have Clauses in Sql to perform filter related information

--1.Where

--2.order by

--3.group by

--4.having

select * from FirstTable

--1.Where

--Where clause is used with comparison operator, arithmetic and logical operators.

--It used to filter the specific condition or we can select a particular records from table.

--Operators

--1.Comaprision Operator

--2.Logical Operator

--3.Arithmetic operator

--4.IN and NOT IN

--5.Between and NOT BETWEEN

--6.LIKE

--1.Comaprision Operator

--it is used to compare the condition provided in filter clauses or where clause.

-- = - equal to

-- > - greater than

-- < - less than

-- >= - greater than equal to

-- <= - less than equal to

-- != or <> -not equal to

create table employee

(EID int,

FirstName varchar(20),

LastName varchar(20),

Loc varchar(20),

Dept varchar(20),

salary int)

insert into employee values (1,'Rohan','Mane','Sangali','HR',15000)

insert into employee values (2,'Sheetal','Chavan','Parbhani','Finance',25000)

insert into employee values (3,'Amit','Patil','Latur','HR',16000)

insert into employee values (4,'Riya','Verma','Pune','Account',20000)

insert into employee values (5,'Sita','Sharma','Patna','HR',15000)

insert into employee values (6,'Kirti','Gold','Solapur','Staffing',35000)

insert into employee values (7,'Sohan','Jadhav','Miraj','Account',45000)

insert into employee values (8,'Priyanka','Sharma','Nagpur','Finance',46000)

insert into employee values (9,'Virat','Patil','Jaipur','Staffing',34000)

insert into employee values (10,'Sohil','Khan','Mumbai','HR',33000)

insert into employee values (11,'Ronit','Patil','Miraj','Admin',NULL)

select * from employee where dept = 'HR'

select * from employee where EID > 5

select * from employee where EID < 4

select * from employee where EID >= 7

select * from employee where EID <= 4

select * from employee where EID <> 7 --not equal to

select * from employee where EID != 7 --not equal to

--Logical Operator

--these operators are used to compare two inputs logically and provide the result.

--1.AND

--It will be just like multiplication

--AND operation

--A	B	O/P
--0	0	0
--0	1	0
--1	0	0
--1	1	1

--A	B	O/P
--False	False	False
--False	True	False
--True	False	False
--True	True	True

select * from employee where eid = 1 and dept = 'Finance'

select * from employee where EID =5 and loc ='Patna'

--2.OR

--It will work like addition

--OR operation

--A	B	O/P
-----	---	-----

--0	0	0
-----	---	---

--0	1	1
-----	---	---

--1	0	1
-----	---	---

--1	1	1
-----	---	---

--A	B	O/P
-----	---	-----

--False	False	False
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--False	True	True
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--True	False	True
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--True	True	True
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select * from employee where eid = 11 or dept = 'Finance'

select * from employee

select * from employee where EID =5 or salary > 40000 or loc ='Pune'

--IN and NOT IN operator

--This operator will allow you to navigate or point out the values which maintained or mentioned inside the in clause.

--Not In operator will perform vice-versa operation as compared to IN operator.

select * from employee where eid => 1,2 -- incorrect syntax because comparison operator will allow you to insert only one condition.

select * from employee where eid in (1,3,4,5)

select * from employee where eid not in (1,3,4,5)

select * from employee where loc in ('Pune','sangali','Miraj')

select * from employee where loc not in ('Pune','sangali','Miraj')