--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,arithmatic 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.Arithmatic 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

```sql
-- < - 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 oeartion

--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
--False	True	True
--True	False	True
--True	True	True

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 whisch mentained or mentioned inside the in clause.

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

select * from employee where eid => 1,2 -- incoreect syntax because comparision opeartor 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')

--Between and Not between

--This operator/ clause is used to display the values or records between the range you have specified.

--This operator works along with AND operator.

select * from employee where EID between 2 and 6

select * from employee where Loc between 'A' and 'N'   --A to N

--Not Between

select * from employee where EID not between 2 and 6

```
select * from employee where Loc not between 'A' and 'N'  -- excluding A to N cities name  <=N
,ex:na,nb
```