Operators in database

Arithmetic operators

Relational operators

Logical operators

And, or, not

[not]	When you want to check the range of values use between
Betweenand	and operator,
	Given values are inclusive
[not] In	When you want to check multiple values in the same column
	with either or condition , then use in operator
Is [not] null	To check null values , then use is null
like	To do the pattern matching we use like operator,
	% 0 or many character
	matches with exactly 1
REGEXP	It will match with pattern
Case end	

-----display employee with name JONE or JAMES

Select * from emp

Where ename in ('JONES','JAMES')

-----display employee with name starts with J

Select * from emp

Where ename like 'J%'

-----display employee with name contains with E

Select * from emp

Where ename like '%E%'

-----display all employees with name ends with N

Select * from emp

Where ename like '%N'

-----display all employees with name contains L at 2 nd position and N at the end

Select * from emp

Where ename like '_L%N'

-----display all employees with name either starts with M or starts with A

Select * from emp

Where ename like 'M%' or ename like 'A%'

-----display all employees with name either starts with M or A and ends with N or R Select * from emp

Where ename like 'M%N' or ename like 'M%R' or ename like 'A%N' or ename like 'A%R;

REGEXP

٨	Any pattern to match at the
	beginning
\$	Match the pattern at the end
•	Any one character, alphabet,
	digit, special character etc
*	Matches with 0 or more
	occurrences if preceding pattern
+	Matches with 1 or more
	occurrences if preceding pattern
?	Matches with 0 or 1
	occurrences if preceding pattern
{m}	Exactly m occurrences
{m,n}	Minimum m or maximum n
{m,}	Minimum m or maximum any
	number
[abcd]	Either a or b or c any one
	character
[^abcd]	Anything other thab a or b or c
	or d
(abc pqr xyz)	Any one of these patterns

-----display all employees with name either starts with M or A and ends with N or R

Select * from emp

Where ename REGEXP '^[MA].*[NR]\$;

-----display all employees with name starts with M, ends with R and length should be 6

Select * from emp

Where ename REGEXP '^M.{4}R\$'

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-----display all employees with name starts with either A or M and contains L at either 2 nd or 3 rd
position
Select * from emp
Where ename REGEXP '^[AM].?L'
----list all employees which has MAN somewhere in the job
Select * from emp
Where job REGEXP 'MAN'
-----generate derived columns
----display all employees empno, ename, sal, comm, net sal(sal+comm)
select empno, ename, sal, comm, sal+ifnull (comm, 0) netsal
from emp;
----display all employees empno, ename, sal, comm, net sal
----after increamenting sal by 15%, give alias net "net salary"
select empno,ename,sal,comm,sal*1.15+ifnull(comm,0) "net salary"
from emp;
----display distinct jobs
select distinct job
from emp;
----display distinct combinations of job and mgr
select distinct job,mgr
  -> from emp;
-----display remark as
If comm is null need improvement
If <300 ok
If < 500 good
Else excellent
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Select empno, ename, sal, comm, case when comm is null then 'need improvement'

---display deptname

If deptno =10 then HR

If 20 then accounts

Else show purchase

Select empno, ename, sal, deptno, case deptno when 10 then 'HR'

When 20 then 'Accounts'

Else 'purchase' end dname

From emp;