between & and

to check the range of values,works with numbers and dates

List the emps who are earning 1000 to 2000

select EMPNO,ENAME,SAL from emp where sal>=1000 and sal<=2000;

syntax

col between min and max

sal >=1000 and sal<=2000

sal between 1000 and 2000

ex

select from emp where sal between 1000 and 2000;

list the emps who are not earning between 1400 to 2500

select \* from emp where sal not between 1400 and 2500;

select \* from emp where sal between 1400 and 2500;

800

1250

2975

1250

2850

3000

5000

1100

950

3000

1300

date format

'dd-mon-yy'

dd- date in number format

mon-First 3 chars of month name

yy- year without century

Date type

same as number types,we can do all comparisons

>,<,>=

list the emp who was joined on 09-JUN-81

select ename,job,sal,hiredate from emp where hiredate ='09-JUN-81';

list the emps who are joined after 81

select \* from emp where hiredate > '31-DEC-81';

SELECT \* FROM EMP WHERE HIREDATE >='01-JAN-82';

> '31-dec-81'

list the emps who are joined in 81

'01-jan-81' to '31-dec-81'

select ename,job,sal,hiredate from emp where hiredate >= '01-jan-81' and hiredate <='31-dec-81';

between and

select ename,job,sal,hiredate from emp where hiredate between '01-jan-81' and '31-dec-81';

list the emps who are not joined in 82 and also clerk

select ENAME,JOB,SAL,HIREDATE from emp where hiredate not between '01-jan-82' and '31-dec-82' AND job='CLERK' ;

LIKE clause

similar to equal to ' = ',to check char and date types

syntax

col like value

ex: list the details of ALLEN

select \* from emp where ename ='ALLEN';

OR

select \* from emp where ename LIKE 'ALLEN';

LIST emps who are not working as clerk

select \* from emp where job not like 'CLERK';

OR

select \* from emp where job != 'CLERK';

Wild cards

to represent unknown chars

' \_ ' - single char

' % ' - multiple chars

clerk

clark phanindra phanendra

cl\_rk phan\_ndra

SELECT JOB FROM EMP WHERE JOB LIKE 'CL\_RK';

list the emps who are having max 4 chars in their names

SELECT ENAME FROM EMP WHERE ENAME LIKE '\_\_\_\_';

ENAME

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WARD

KING

FORD

list the emps who are having A as 3rd char

select ename from emp where ename like '\_\_A%';

list the emps who are having A as first char

select ename from emp where ename = 'A%';

select ename from emp where ename like 'A%' and deptno=30;

ALLEN

TURNER x

SMITH x

ADAMS

WARD x

krishna

list the emps who are having R in their name OR NOT

select ename,JOB from emp where ename like '%R';

select ename,JOB from emp where ename like '%S%'

LIST THE emps who are having last but one char as E

select ename,JOB from emp where ename like '%E\_';

list the emps who are having R in their names and working as clerk

select \* from emp where ename like '%R%' AND JOB='CLERK';

R% or %R or %R%

List the emps who are having S as first char,T as last char

select ename from emp where ename like 'S%' and ename like '%T';

TURNER X

SMITH

WARD

SCOTT

FORD

select ename from emp where ename like 'S%T';

list the emps who are NOT having S in THEIR NAMES

select ename from emp where ename NOT like '%S%' ;

SMITH

SCOTT

JONES

WARD

%S S% %S%

List the emps who are having R as last but one char

select ename from emp where ename like '%R\_';

list the emps who are NOT having T in their names

select ename,job from emp where ename NOT like '%S%' and job not like '%S%' ;

list the emps who are having char A as 2 nd in their names

'\_A%'

IS Operator

to check null or not null values

null means Empty

not even 0 or ' '

Syntax

col IS null

col is not null

list the emps who are not getting commision

select empno,ename,job,sal,comm from emp where Comm is NULL;

list the emps who are getting commision

select \* from emp where Comm is NOT NULL;

List the emp who is the boss of all

select \* from emp where MGR IS NULL;

ENAME JOB SAL COMM

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SMITH CLERK 800

ALLEN SALESMAN 1600 300

WARD SALESMAN 1250 500

JONES MANAGER 2975

MARTIN SALESMAN 1250 1400

BLAKE MANAGER 2850

CLARK MANAGER 2450

SCOTT ANALYST 3000

KING PRESIDENT 5000

TURNER SALESMAN 1500 0

ADAMS CLERK 1100

ENAME JOB SAL COMM

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JAMES CLERK 950

FORD ANALYST 3000

MILLER CLERK 1300