Equi join

"TABLE1.COL=TABLE2.COL"

list the ename,job,sal,dname of those who are earning more than 1500

SELECT ENAME,JOB,SAL,E.DEPTNO "emp dno",D.DEPTNO "dept dno",DNAME from emp e,dept d where e.deptno=d.deptno and sal>1500;

list the name,job,sal,location of the emps who are working in chicago

order by their names

SELECT ENAME,JOB,SAL,d.deptno,loc from emp e,dept d

where e.deptno=d.deptno and loc like 'CHICAGO' order by ename;

List the ename,job,sal,dname of all emps except 10 dept

select ename,job,sal,e.deptno,dname from emp e,dept d

where e.deptno=d.deptno and e.deptno!=10;

Retreve the emps who are working in SALES,ACCOUNTING depts

select ename,job,dname from emp e ,dept d

where e.deptno=d.deptno and dname in('SALES','ACCOUNTING');

List the emps name,job,sal and dname of the emps who are working in RESEARCH and earning more than 1000 order them by their salaries in descending order

select ename,job,sal,dname from emp e,dept d where e.deptno=d.deptno and dname='RESEARCH' and sal>1000 order by sal DESC;

Non-Equi join

no need of 2 tables similar col,values

select \* from salgrade;

GRADE LOSAL HISAL

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1 700 1200

2 1201 1400

3 1401 2000

4 2001 3000

5 3001 9999

student

sno name m1 m2 m3

STU\_CLASSES

find the distinction > 75%

first >=60

second >=50

third >=35

or

Fail

STU\_GPA

GPA

GRADE MIN MAX

O+ 96 100

O 90 95

A+ 85 89

A 75 84

B+

B

List the emps by their grades

select ename,job,sal,grade from emp,salgrade where sal between LOSAL and HISAL;

select \* from emp,salgrade where sal between LOSAL and HISAL;

LIST the emps who are getting 2,3 grades

select ename,job,sal,grade from emp,salgrade where sal between LOSAL and HISAL and grade in(2,3);

list the emps grades of deptno except 20

select ename,job,sal,deptno,grade from emp,salgrade where sal between LOSAL and HISAL and deptno !=20;

select \* from emp,salgrade where sal between LOSAL and HISAL and deptno !=20;

\*\*\*LIST the emps name,job,sal,loc and grades of the emps \*\*\*

SELECT ENAME,JOB,SAL,LOC,GRADE,E.DEPTNO,D.DEPTNO FROM

EMP E,DEPT D,SALGRADE WHERE E.DEPTNO=D.DEPTNO AND SAL BETWEEN LOSAL AND HISAL;

Outer Join ( + )

a=(1 2 3 4 5 6) a = b(+)

b=(1 2 3 4 5 )

a=(1 2 3 4 5 ) a (+) = b

b=(1 2 3 4 5 6 )

left table1.col(+)=table2.col

right table1.col=table2.col(+)

similar to Equi join and adds the ADDITIONAL row(s ) not satisfied by condition

including unsatisfied rows of the cond.

SELECT ENAME,JOB,SAL,E.DEPTNO,D.DEPTNO,DNAME from emp e,dept d where e.deptno(+)=d.deptno;

SELF join or Recursive join

A table which is joined "BY it Self" "Recursion"

empno ename job sal mgr hiredate deptno comm

dividing table into 2 tables

List the emps who are working under whom????

select e.empno,e.ename,e.job,m.empno,m.ename,m.job

from emp e,emp m where e.mgr=m.empno;

7369 SMITH CLERK 7902 FORD ANALYST

7499 ALLEN SALESMAN 7698 BLAKE MANAGER

7521 WARD SALESMAN 7698

7566 JONES MANAGER 7839

7654 MARTIN SALESMAN 7698

7698 BLAKE MANAGER 7839

7782 CLARK MANAGER 7839

7788 SCOTT ANALYST 7566

7839 KING PRESIDENT

7844 TURNER SALESMAN 7698

7876 ADAMS CLERK 7788

7900 JAMES CLERK 7698

7902 FORD ANALYST 7566

7934 MILLER CLERK 7782

select e.empno,e.ename "EMP NAME",e.job "E JOB",m.empno,m.ename "M NAME",m.job "M JOB" from emp E,emp M WHERE e.mgr=m.empno;

SUB-QUERIES and functions

select \* from emp where hiredate like '%FEB%';

STUDENT PARENT

SNO,NAME,ADMNO,DOB,ADDR SNO -PK

EXAM SNO- FK

SNO,COURSE

SEMESTER

SUBJECTS

ATTEND CHILD

SNO,NAME,MONTH,NO OF DAYS PRESENT