--Hemyan Al-kuwari

select ename, dname from emp,dept;

select ename, dname from emp cross join dept;

select ename, dname from emp,dept where emp.deptno=dept.deptno;

-- The above and lower statemints are EQUAL

select emp.ename,dept.dname from emp,dept where emp.deptno=dept.deptno;

--1

select ename, dname from emp natural join dept;

select ename, dname from emp join dept on (dept.deptno=emp.deptno);

select ename, dname from emp natural join dept where mgr=7839;

select ename, dname from emp, dept where emp.deptno=dept.deptno and mgr=7839;

--2

desc emp;

select \* from emp;

select worker.ename, manager.ename from emp worker,emp manager where worker.mgr=manager.empno;

select e.ename, m.ename from emp e join emp m on (e.mgr=m.empno);

--3

select \* from salgrade;

select e.ename, e.sal, s.grade from emp e, salgrade s where e.sal between s.losal and s.hisal;

--4

select ename, dname from emp right outer join dept on (emp.deptno=dept.deptno);

select e.ename, d.deptno,d.dname from emp e, dept d where e.deptno(+)=d.deptno order by e.deptno;

--Practice

select e.ename, m.ename from emp m right outer join emp e on (e.mgr=m.empno);

select e.ename, m.ename from emp m , emp e where m.empno(+)=e.empno;

--4 (cont...)

select e.ename, m.ename from emp e full outer join emp m on (e.mgr=m.empno);

--Practice

--1

select ename, dname, loc from emp, dept where(emp.deptno=dept.deptno) and comm is not null;

--2

select \* from salgrade;

select e.ename, e.job, d.dname, e.sal, s.grade from emp e, dept d, salgrade s where e.deptno=d.deptno and (e.sal between s.losal and s.hisal)and s.grade=3;

--3

select e.ename, e.hiredate from emp e, emp b where b.ename like 'BLAKE' and e.hiredate > b.hiredate;

--4

-- solve it as exercise

--Subqueries

select ename from emp where sal > (select sal from emp where empno=7566);

--Practice

select ename from emp where hiredate =( select hiredate from emp where ename='JAMES') and sal > (select sal from emp where ename='JAMES');

--Subqueries (cont...)

select ename, job, sal from emp where sal =(select min(sal) from emp);

select deptno, min(sal) from emp group by deptno having min(sal) > (select min(sal) from emp where deptno =20);

--MultipleRow Subqueries

select empno, ename, job from emp where sal < any (select sal from emp where job='CLERK');

select empno, ename, job from emp where sal > all ( select avg(sal) from emp group by deptno);