```
1. Update smith's salary with Adam's salary
   update emp
   set sal=(select sal
        from (select * from emp ) e
        where ename='ADAMS')
   where ename='SMITH';
2. Delete all employees who are working in SMITH's department
   delete from emp
   where deptno=(select deptno
           from (select * from emp ) e
           where ename='SMITH');
3. Delete all employees whose sal > avg sal of ALLEN's department
   delete from emp
   where sal > (select avg(sal)
          from (select * from emp) e
          where deptno=(select deptno
                  from (select * from emp) m
                  where ename='ALLEN'));
   select *
   from dept d
   where not exists (select *
           from emp e
           where e.deptno=d.deptno)
   product(pid,pname,qty,price,cid,sid)
   category(cid,cnam,des_info)
   salesman(sid,sname,address)
   1. Find all categories for which there are no products.
       Select *
       From category c
       Where not exists (select * from product p
                         Where p.cid=c.cid)
   2. Find all salesman who have not sold any product
   Select *
   From salesman s
   Where not exists (select * from product p
                     Where p.sid=s.sid)
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3. Find all salesman who sold some product and stays in pune Select * From salesman s Where exists (select * From product p Where p.sid=s.sid) and address='Pune'; Joins When you need to display information from more than one table then use joins Types of joins 1. Cross join 2. Inner join-- to get matching rows use inner join. a. Equi join—if the join condition is based on = sign then it is called as equi join b. Non equi join—if the join condition is based on non equality condition then it is called as nonequi join c. Self join---- in inner join if the same table is joined with itself then it is called as self 3. Outer join---- when you want to display matching as well as non-matching rows then use outer join a. Left outer join -→ if you want to display non matching records from left side table then use left outer join b. Right outer join--→ if you want to display non matching records from right side table then use right outer join c. Full outer join-→ if you want to display non matching records from both side table then use full outer join Find all employees along with their department name select * -> from emp e, dept d -> where e.deptno=d.deptno; Or Select * From emp e inner join dept d on e.deptno=d.deptno Find all employees name, sal and grade select *

- -> from emp e, salgrade s
- -> where e.sal between s.losal and s.hisal;

select *

- -> from emp e inner join salgrade s
- -> on e.sal between s.losal and s.hisal;
 - 4. Find names of all employees along with their managers select e.empno,e.ename,e.mgr,m.empno mgrno,m.ename mgrname
 - -> from emp e,emp m
 - -> where e.mgr=m.empno;

Or

select e.empno,e.ename,e.mgr,m.empno mgrno,m.ename mgrname

- -> from emp e inner join emp m
- -> on e.mgr=m.empno;
- Find all courses with their faculty name select c.cname,f.fname from course c,course_faculty cf,faculty f -> where c.cid=cf.cid and cf.fid=f.fid;

Or

select c.cname,f.fname
from course c inner join course_faculty cf on c.cid=cf.cid inner join faculty f
 -> on cf.fid=f.fid;

product(pid,pname,qty,price,cid,sid)
category(cid,cnam,des_info)
salesman(sid,sname,address)

- To find all products name, qty, price along with salesman name Select p.pname,p.qty,p.price,p.sid,s.sname From product p, salesman s Where p.sid=s.sid;
- To find all product names, qty,price and category names Select p.pname,p.qty,p.price,p.cid,c.cname From product p, category c Where p.cid=c.cid;
- 3. To find all products name , qty along with salesman name and category name Select p.pname,p.qty,s.sname,c.cname From product p,salesman s,category c

Where p.cid = c.cid and p.sid=s.sid;

4.display all employees along with their dept name and grade select empno, ename, e. deptno, dname, sal, grade, losal, hisal

- -> from emp e, dept d, salgrade s
- -> where e.deptno=d.deptno and e.sal between s.losal and s.hisal;
- 4. To find all employees along with their department name and also display departments in which no employees are there

select empno, ename, sal, e. deptno, d. deptno, d. dname

- -> from emp e right join dept d on e.deptno=d.deptno;
- 5. To find all employees along with their department name employees who are not assigned to any department

select empno, ename, sal, e. deptno, d. deptno, d. dname

- -> from emp e left join dept d on e.deptno=d.deptno;
- 6. To find all employees along with their department name and also display departments in which no employees are there also display employees who are not assigned to any department

select empno, ename, sal, e. deptno, d. deptno, d. dname

- -> from emp e right join dept d on e.deptno=d.deptno
- -> union
- -> select empno,ename,sal,e.deptno,d.deptno,d.dname
- -> from emp e left join dept d on e.deptno=d.deptno;

Find all employees along with their department name for all employees with sal> 2000

select *

- -> from emp e, dept d
- -> where e.deptno=d.deptno and sal>2000;

Or

Select *

From emp e inner join dept d on e.deptno=d.deptno

Where sal>2000;