**Assignment 2**

**Due Date:** September 28, 2015, 11:59 PM

--answer 1 a)

Select d.DNAME,count(\*)

From EMPLOYEE e1, DEPARTMENT d

Where d.DNO=e1.dno AND e1.Dno IN(

Select e2.Dno

From EMPLOYEE e2

Group by e2.Dno

Having avg(e2.Salary)>30000)

group by d.dname;

--answer 1 b)

Select d.DNAME,count(\*)

From EMPLOYEE e1, DEPARTMENT d

Where d.DNO=e1.dno AND sex='M' AND e1.Dno IN(

Select e2.Dno

From EMPLOYEE e2

Group by e2.Dno

Having avg(e2.Salary)>30000)

group by d.dname;

--answer 1 c)

Select e1.Fname

FROM EMPLOYEE e1

Where e1.dno IN(Select e2.dno

From employee e2

Where e2.salary in ( select max(salary)

From EMPLOYEE e3)

);

--answer 1 d)

Select e1.Fname

FROM EMPLOYEE e1

Where e1.Salary-10000 >= (select min(Salary)

From employee);

--answer 1 e)

select e1.Fname,e1.MINIT,e1.LNAME

from employee e1

where e1.salary in (

select min(e2.salary)

from employee e2

where e2.dno=e1.DNO)

and exists (select essn

from DEPENDENT

where e1.ssn=essn

group by ESSN

having count(\*)>1);

--answer 2 a)

create view managers as

select dname,Fname,salary

from department,EMPLOYEE

where ssn=mgrssn;

--answer 2 b)

create view depts as

select d.dname as Department\_name, count(distinct e.SSN) as no\_of\_employee, count(distinct p.PNO) as no\_of\_projects

from department d, EMPLOYEE e, project p

where e.dno=d.dno and p.dno=d.DNO

group by d.dname;

create view department\_info as

select Department\_name, Fname,no\_of\_employee, no\_of\_projects

from depts,employee,department

where Department\_name=dname and SSN=mgrssn;

--answer 2 c)

create view prjt as

select p.pname as project\_name,p.pno as project\_number,count(distinct w.ssn) as no\_of\_employee,sum(w.hours) as no\_of\_hours

from project p, works\_on w

where p.pno=w.pno group by p.pname,p.pno;

create view project\_info as

select project\_name, dname,no\_of\_employee, no\_of\_hours

from prjt,department,PROJECT

where project\_number=PROJECT.PNO and PROJECT.DNO =department.DNO;

--answer 2 d)

create view prjts as

select p.pname as project\_name,p.pno as project\_number,count(distinct w.ssn) as no\_of\_employee,sum(w.hours) as no\_of\_hours

from project p, works\_on w

where p.pno=w.pno and p.pno in ( select p1.PNO

from project p1,works\_on w1

where p1.pno=w1.pno

group by p1.PNO

having count(w1.ssn)>1

)

group by p.pname,p.pno;

create view projects\_info as

select project\_name, dname,no\_of\_employee, no\_of\_hours

from prjts,department,PROJECT

where project\_number=PROJECT.PNO and PROJECT.DNO =department.DNO;

--answer 2 e)

create view empls as

select ssn as employee\_ssn,fname as employee\_name,salary as employee\_salary,employee.dno as employee\_dept\_no, mgrssn as manager\_ssn

from employee,department

where department.DNO=employee.DNO;

create view mgrs as

select distinct(manager\_ssn) as manager\_ssn,fname as manager\_name,salary as manager\_salary

from EMPLOYEE,empls

where ssn=empls.manager\_ssn;

create view avg\_salary as

select dno as employee\_dept\_no, avg(salary) as department\_avg\_salary

from employee

group by dno;

create view employee\_info as

select employee\_name, employee\_salary, empls.employee\_dept\_no, manager\_name, manager\_salary, department\_avg\_salary

from empls,mgrs,avg\_salary

where empls.manager\_ssn=mgrs.manager\_ssn and avg\_salary.EMPLOYEE\_DEPT\_NO=empls.EMPLOYEE\_DEPT\_NO;

--3 answere

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