***Ashok Bhobhiya-181IT154 - DBMS lab 3-4 questions***

1)

**select** Fname, Lname, Bdate, Address

**from** EMPLOYEE **inner join** DEPARTMENT **on** EMPLOYEE.Dno=DEPARTMENT.Dnumber

**where** Dname="Administration";

2)

**select** *sum*(Salary) **as** sum , *max*(Salary) **as** max, *min*(Salary) **as** min, *avg*(Salary) **as** avg

**from** EMPLOYEE **inner join** DEPARTMENT **on** EMPLOYEE.Dno=DEPARTMENT.Dnumber

**where** Dname='Research';

3)

**select** *count*(\*)

**from** EMPLOYEE **inner join** DEPARTMENT **on** EMPLOYEE.Dno = DEPARTMENT.Dnumber

**where** Dname='Administration';

4)

**select** Pname,Pnumber, *count*(Pname) **as** NumberOfEmployee

**from** PROJECT **inner join** WORKS\_ON **on** PROJECT.Pnumber = WORKS\_ON.Pno

**group by** Pname, Pnumber;

5)

**select** Pname,Pnumber,Plocation, *count*(Pname) **as** NumberOfEmployee

**from** PROJECT **inner join** WORKS\_ON **on** PROJECT.Pnumber = WORKS\_ON.Pno

**where** Dnum=5

**group by** Pname, Pnumber, Plocation;

6)

**select** Lname, Address, Dnumber, Pnumber

**from** PROJECT p

**inner join** DEPARTMENT d **on** p.Dnum=d.Dnumber

**inner join** EMPLOYEE e **on** e.Ssn=d.Mgr\_ssn

**where** Plocation="Houston";

7)

**select** Dname, Fname, Lname

**from** EMPLOYEE e

**inner join** WORKS\_ON w **on** e.Ssn=w.Essn

**inner join** DEPARTMENT d **on** d.Dnumber=e.Dno

**order by** Dname, Fname, Lname;

8)

**select** Fname, Lname

**from** EMPLOYEE **where** Super\_ssn **is NULL**;

9)

**select** e.Fname, e.Lname

**from** EMPLOYEE e, EMPLOYEE e1

**where** e.Super\_ssn=e1.Ssn **and** e1.Super\_ssn='987654321';

SELECT LNAME FROM EMPLOYEE WHERE Super\_ssn IN( SELECT SSN FROM EMPLOYEE WHERE Super\_ssn = 888665555 );

10)

**select** Dname, Lname, Fname, Salary

**from** EMPLOYEE e **inner join** DEPARTMENT d **on** e.Ssn=d.Mgr\_ssn;

11)

**select** *concat*(e.Fname,' ', e.Lname) **as** Employee, *concat*(e1.Fname, ' ', e1.Lname) **as** Supervisor, e.Salary

**from** EMPLOYEE e

**inner join** EMPLOYEE e1 **on** e.Super\_ssn=e1.Ssn

**inner join** DEPARTMENT d **on** d.Dnumber=e.Dno

**where** d.Dname='Research';

12)

**select** Pname, Dname, *count*(Pno) **as** NumberofEmployee, *sum*(Hours) **as** HourSum

**from** DEPARTMENT d

**inner join** PROJECT p **on** p.Dnum=d.Dnumber

**inner join** WORKS\_ON w **on** w.Pno=p.Pnumber

**group by** Pno, Pname, Dname;

13)

**select** Pname, Dname, *count*(Pno) **as** NumberofEmployee, *sum*(Hours) **as** HourSum

**from** DEPARTMENT d

**inner join** PROJECT p **on** p.Dnum=d.Dnumber

**inner join** WORKS\_ON w **on** w.Pno=p.Pnumber

**group by** Pno, Pname, Dname

**having** *count*(Pno) > 1;

14)

**select** *concat*(Fname, ' ', Lname) **as Name**

**from** PROJECT p

**inner join** WORKS\_ON w **on** p.Pnumber=w.Pno

**inner join** EMPLOYEE e **on** e.Ssn=w.Essn

**where** p.Dnum=5;

select concat(Fname,' ',Lname) from EMPLOYEE where Ssn in (Select Essn from

WORKS\_ON where Pno in (select Pnumber from PROJECT where Dnum=5));

15)

**select** *concat*(Fname, ' ', Lname) **as Name**

**from** PROJECT p

**inner join** WORKS\_ON w **on** p.Pnumber=w.Pno

**inner join** EMPLOYEE e **on** e.Ssn=w.Essn

**where** Pname='ProductX' **and** w.Hours > 10;

Right outer join

select concat(Fname, ' ', Lname) as Name from PROJECT p right outer join WORKS\_ON w on p.Pnumber=w.Pno right outer join EMPLOYEE e on e.Ssn=w.Essn where Pname='ProductX' and w.Hours > 10;

left outer join

select concat(Fname, ' ', Lname) as Name from PROJECT p left outer join WORKS\_ON w on p.Pnumber=w.Pno left outer join EMPLOYEE e on e.Ssn=w.Essn where Pname='ProductX' and w.Hours > 10;

16)

**select** Fname

**from** EMPLOYEE e

**inner join** DEPENDENT D **on** e.Ssn = D.Essn

**where** Fname=Dependent\_name;

17)

**select** *concat*(e.Fname, ' ', e.Lname) **as Name**

**from** EMPLOYEE e, EMPLOYEE e1

**where** e.Super\_ssn=e1.Ssn **and** e1.Fname='Franklin' **and** e1.Lname='Wong';

18)

**select** Pname, *sum*(Hours) **as** SumOfHours

**from** PROJECT p

**inner join** WORKS\_ON w **on** p.Pnumber=w.Pno

**group by** Pname;

select Pname, sum(Hours) as SumOfHours from PROJECT p inner join WORKS\_ON w on p.Pnumber=w.Pno group by Pname having SumOfHours>50;

19)

**select** *avg*(e.Salary) **as** Average

**from** EMPLOYEE e

**where** e.Sex='F';