

DBS LAB ASSIGNMENT

- 1) `SELECT CONCAT(Fname,' ',Minit,' ',Lname) AS Name,Bdate,Address FROM EMPLOYEE,DEPARTMENT WHERE EMPLOYEE.Dno=DEPARTMENT.Dnumber AND Dname='Administration';`
- 2) `SELECT SUM(Salary),MAX(Salary),MIN(Salary),AVG(Salary) FROM EMPLOYEE,DEPARTMENT WHERE EMPLOYEE.Dno=DEPARTMENT.Dnumber AND Dname='Research';`
- 3) `Select count(*) from EMPLOYEE where Dno in (select Dnumber from DEPARTMENT where Dname='Administration');`
- 4) `SELECT Pnumber,Pname,COUNT(WORKS_ON.Pno) AS NoEmp FROM PROJECT,WORKS_ON WHERE PROJECT.Pnumber = WORKS_ON.Pno GROUP BY Pnumber;`
- 5) `SELECT Pnumber,Pname,Plocation,COUNT(WORKS_ON.Pno) AS NoEmp FROM PROJECT,WORKS_ON WHERE PROJECT.Pnumber=WORKS_ON.Pno AND Dnum=5 GROUP BY Pnumber;`
- 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 Fname,Lname,Ssn,Pname,Pnumber,Dnum FROM EMPLOYEE,PROJECT,WORKS_ON WHERE EMPLOYEE.Ssn=WORKS_ON.Essn AND WORKS_ON.Pno=PROJECT.Pnumber ORDER BY Dnum,Fname,Lname;`
- 8) `select Fname from EMPLOYEE where Super_ssn is NULL;`
- 9) `select Fname from EMPLOYEE where Super_ssn in (select Ssn from EMPLOYEE where Super_ssn='987654321');`
- 10) `select Dname, Lname, Fname, Salary from EMPLOYEE e inner join DEPARTMENT d on e.Ssn=d.Mgr_ssn;`
- 11) `select concat(Fname,' ',Lname),Salary from EMPLOYEE where Dno in (select Dnumber from DEPARTMENT where 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) 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
EMPLOYEE,PROJECT,WORKS_ON WHERE EMPLOYEE.Ssn=WORKS_ON.Essn
AND PROJECT.Pnumber=WORKS_ON.Pno AND Dnum=5 AND Pname='ProductX'
AND Hours>10;
- 16) SELECT CONCAT(Fname,' ',Lname) AS Name FROM EMPLOYEE,DEPENDENT
WHERE EMPLOYEE.Ssn=DEPENDENT.Essn AND Fname=Dependent_name;
- 17) select concat(Fname,' ',Lname) from EMPLOYEE where Super_ssn in (select Ssn
from EMPLOYEE where Fname='Franklin');
- 18) SELECT Pname,SUM(Hours) FROM PROJECT,WORKS_ON WHERE
PROJECT.Pnumber=WORKS_ON.Pno GROUP BY Pnumber;
- 19) SELECT AVG(Salary) FROM EMPLOYEE WHERE Sex='F';

Asked questions in lab:

- 14)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 p.Dnum=5;
- 15)select concat(Fname,' ',Lname) from EMPLOYEE where (Dno=5 and ssn in (select Essn
from WORKS_ON where Pno in (select Pnumber from PROJECT where Pname='ProductX')
and Hours>10));
- 18)SELECT Pname,SUM(Hours) FROM PROJECT,WORKS_ON WHERE
PROJECT.Pnumber=WORKS_ON.Pno GROUP BY Pnumber having sum(hours)>50 ;
- 15)SELECT CONCAT(Fname,' ',Lname) AS Name FROM EMPLOYEE E JOIN WORKS_ON
W ON E.Ssn=W.Essn JOIN PROJECT P ON W.Pno=P.Pnumber WHERE E.Dno=5 AND
P.Pname='ProductX' AND W.Hours>10;