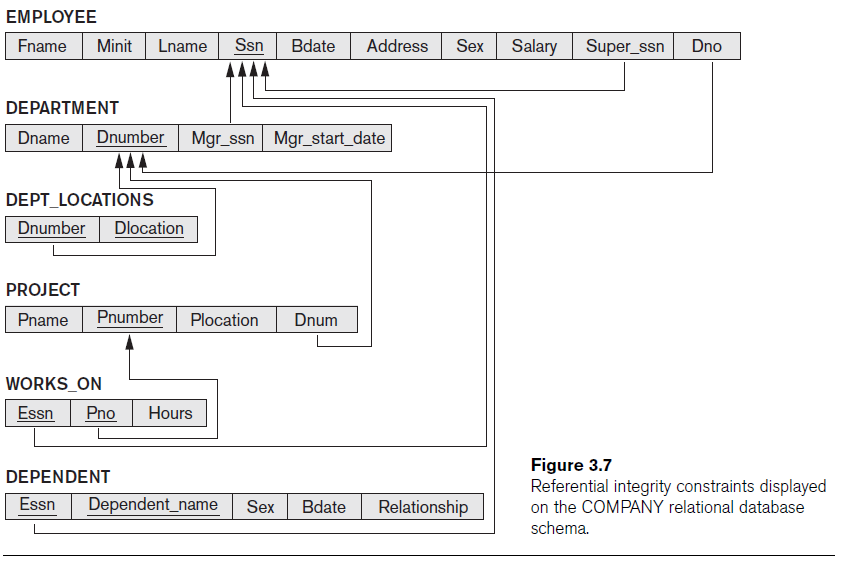
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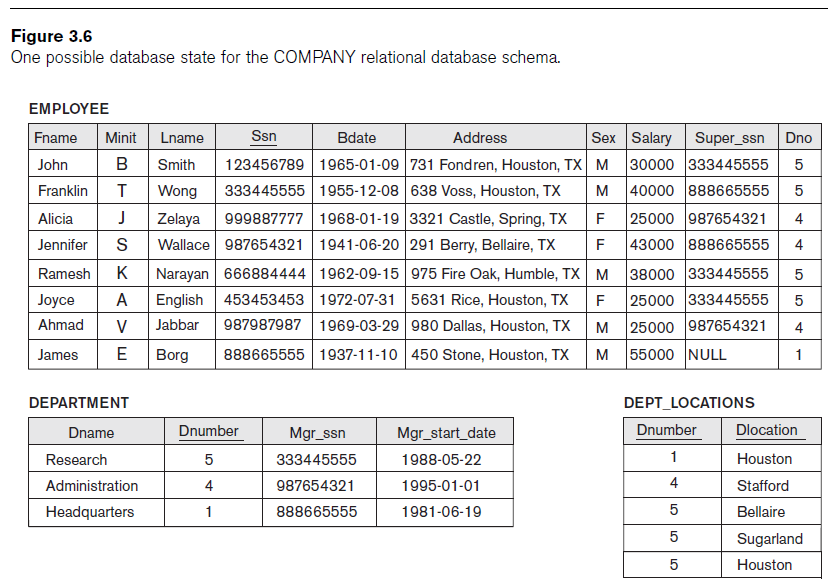
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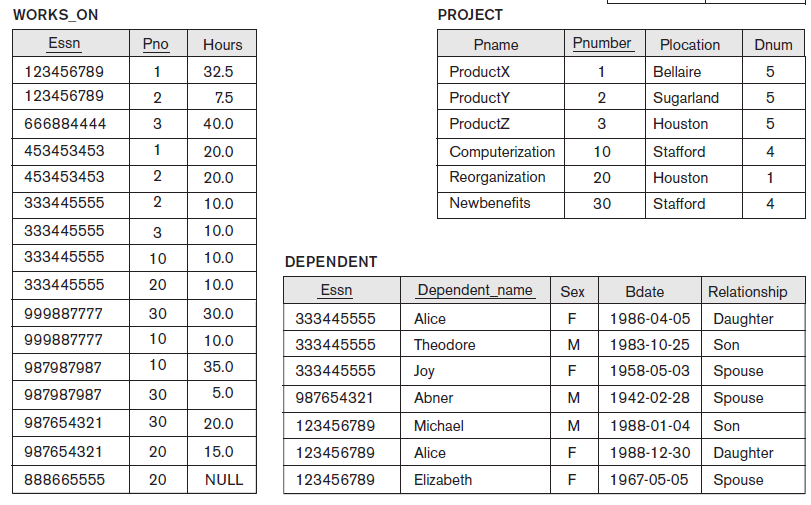
Database Administration – INT321

Lab # 5 Model Answer

Use the company database below to answer the following questions





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1. Write an SQL statement to create a view named department\_Detail that retrieve Dnumber, Dname, and department location for all departments.

**Answer:**

CREATE VIEW DEPARTMENT\_DETAIL AS SELECT DNAME, DEPARTMENT.DNUMBER, DLOCATION

FROM DEPARTMENT, DEPT\_LOCATIONS

WHERE DEPARTMENT.DNUMBER = DEPT\_LOCATIONS.DNUMBER;

1. Write an SQL statement to create a view named Employee\_Dependent that retrieves FName, LName, SSN, Dependent Name, and relationship for all employees who have dependents.

**Answer:**

CREATE VIEW EMPLOYEE\_DEPENDENT AS SELECT FNAME, LNAME, SSN, DEPENDENT\_NAME, RELATIONSHIP

FROM EMPLOYEE, DEPENDENT

WHERE DEPENDENT.ESSN = EMPLOYEE.SSN

ORDER BY SSN, DEPENDENT\_NAME;

1. Write an SQL statement to create a view named Employee\_Project that retrieves employee SSN, employee first name, employee last name, Department number, Department Name, project name, number of hours worked for all employees who work in any project.

**Answer:**

CREATE VIEW EMPLOYEE\_PROJECT AS SELECT SSN, FNAME, LNAME, DNO, DNAME, PNAME, HOURS

FROM EMPLOYEE, WORKS\_ON, PROJECT, DEPARTMENT

WHERE EMPLOYEE.SSN = WORKS\_ON.ESSN

AND WORKS\_ON.PNO = PROJECT.PNUMBER

AND EMPLOYEE.DNO = DEPARTMENT.DNUMBER;

1. Write an SQL statement to create a view named Department\_Manager that retrieves Dname , Dnumber, Department manager last name, and department location for all departments.

**Answer:**

CREATE VIEW Department\_Manager AS SELECT DNAME, DEPARTMENT.DNUMBER, LNAME, DLOCATION

FROM EMPLOYEE, DEPARTMENT, DEPT\_LOCATIONS

WHERE EMPLOYEE.SSN=DEPARTMENT.MGRSSN

AND DEPARTMENT.DNUMBER=DEPT\_LOCATIONS.DNUMBER;

5. Write an SQL statement to create a view named Employee\_Supervisor that retrieves Employee first name, employee last name, Employee SSN, Employee salary, Supervisor SSN, Supervisor First name, and supervisor last name for all employees.

Answer:

CREATE VIEW EMPLOYEE\_SUPERVISOR AS SELECT WORKER.FNAME AS EMPLOYEEFIRSTNAME,WORKER.LNAME AS EMPLOYEELASTNAME,WORKER.SSN AS EMPLOYEESSN, WORKER.SALARY AS EMPLOYEESALARY, MANAGER.SSN AS SUPERVISORSSN, MANAGER.FNAME AS SUPERVISORFIRSTNAME, MANAGER.LNAME AS SUPERVISORLASTNAME

FROM EMPLOYEE WORKER, EMPLOYEE MANAGER

WHERE WORKER.SUPERSSN = MANAGER.SSN;

6. Write an SQL statement to create a view named Employee\_Salary that retrieves the employee SSN, Employee first name, employee salary, and employee department number of all employees who have salary greater than the average salaries of their department.

Answer:

CREATE VIEW EMPLOYEE\_SALARY AS SELECT SSN, FNAME, LNAME, SALARY, DNO FROM EMPLOYEE E WHERE SALARY >(SELECT AVG(SALARY) FROM EMPLOYEE D WHERE E.DNO = D.DNO);

7. For every employee who has dependent, write an SQL statement to create a view named Emp\_Dependent that retrieves employee SSN, Fname, Lname, total number of dependent.

**ANS:**

CREATE VIEW EMP\_DEPENDENT AS SELECT SSN, FNAME, LNAME, COUNT (\*)  
FROM EMPLOYEE, DEPENDENT  
WHERE ESSN = SSN

GROUP BY SSN, FNAME, LNAME;

8. For every employee who works on more than one project, write an SQL statement to create a view named Emp\_projects that retrieves the employee SSN, Fname, Lname, address, and the total number of projects in which he work on. Name the total number of projects in which he works as totalProjects.

ANS:

CREATE VIEW EMP\_PROJECTS AS SELECT SSN, FNAME, LNAME, ADDRESS, COUNT (\*) AS TOTALPROJECTS  
FROM EMPLOYEE, WORKS\_ON

WHERE ESSN = SSN  
GROUP BY SSN, FNAME, LNAME, ADDRESS

HAVING COUNT (\*) >1;

9. Use view concept to perform the following task. Create three users. Grant the first user select on all columns of employee table for employee working in department 1. Grant the second user select on all columns of employee table for employees working in department 3. Grant the third user select on all columns of male employee.

Answer:

Create user userlab5\_1 identified by lab5;

Grant connect to userlab5\_1;  
Create user userlab5\_2 identified by lab5;

Grant connect to userlab5\_2;

Create user userlab5\_3 identified by lab5;

Grant connect to userlab5\_3;

Create view emp\_dept1 as select \* from employee where dno = 1;  
Create view emp\_dept3 as select \* from employee where dno = 3;

Create view Male\_emp as select \* from employee where sex = ‘M’;

Grant select on emp\_dept1 to userlab5\_1;

Grant select on emp\_dept to userlab5\_2;

Grant select on Male\_emp to userlab5\_3;