Exercise1:

EMPLOYEE

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno

DEPARTMENT

Dname	Dnumber	Mgr_ssn	Mgr_start_date

DEPT_LOCATIONS

Dnumber	Dlocation

PROJECT

Pname	Pnumber	Plocation	Dnum

WORKS_ON

Essn	Pno	Hours

DEPENDENT

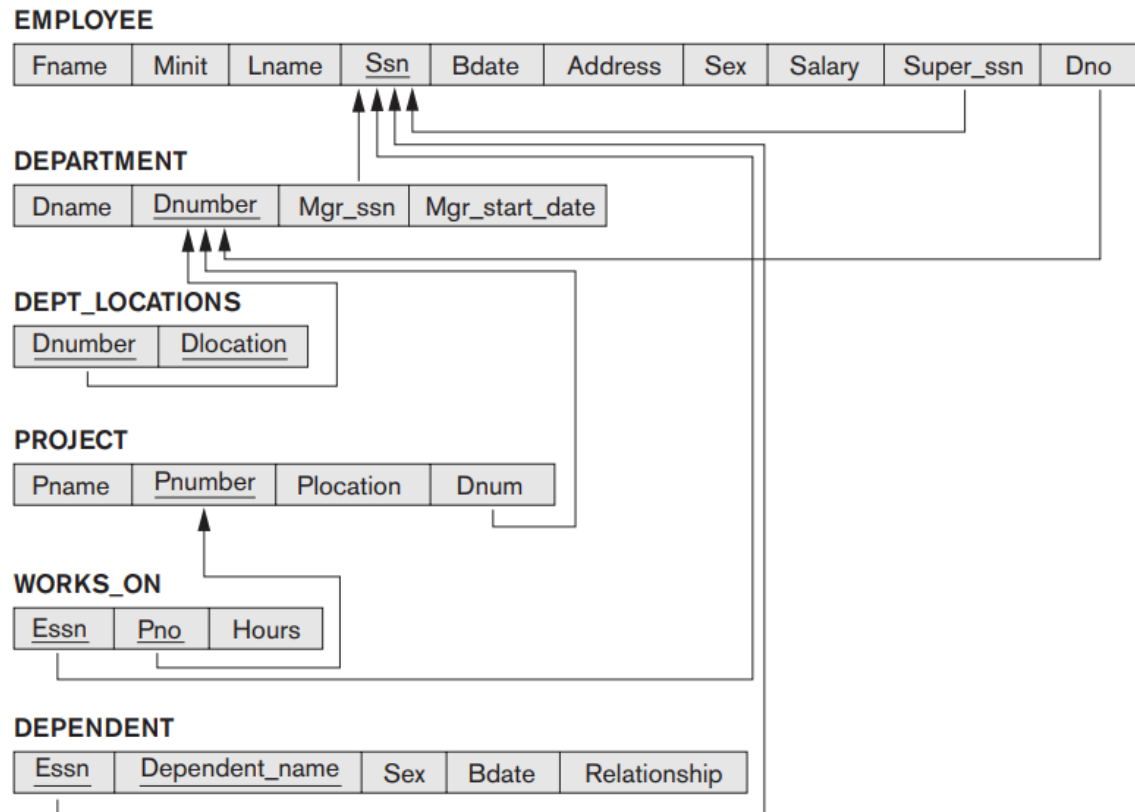| Essn	Dependent_name	Sex	Bdate	Relationship

Write SQL script to create database and tables for Company.

Exercise2: write SQL script as requirement below

> a.Insert <'Robert', 'F', 'Scott', '943775543', '1972-06-21', '2365 Newcastle Rd, Bellaire, TX', M, 58000, '888665555', 1> into EMPLOYEE.
> b. Insert <'ProductA', 4, 'Bellaire', 2> into PROJECT.
> c. Insert <'Production', 4, '943775543', '2007-10-01'> into DEPARTMENT.
> d. Insert <'677678989', NULL, '40.0'> into WORKS_ON.
> e. Insert <'453453453', 'John', 'M', '1990-12-12', 'spouse'> into DEPENDENT.
> f. Delete the WORKS_ON tuples with Essn = '333445555'.
> g. Delete the EMPLOYEE tuple with Ssn = '987654321'.
> h. Delete the PROJECT tuple with Pname = 'ProductX'.
> i. Modify the Mgr_ssn and Mgr_start_date of the DEPARTMENT tuple

withDnumber = 5 to '123456789' and '2007-10-01', respectively.
j. Modify the Super_ssn attribute of the EMPLOYEE tuple with Ssn
='999887777' to '943775543'.
k. Modify the Hours attribute of the WORKS_ON tuple with Essn
='999887777' and Pno = 10 to '5.0'.

Exercise 3: Write the following queries in SQL for the COMPANY database:

a) Retrieve the minimum and maximum Salary and number of employees in each department.

b) Retrieve the number of projects located in Sharjah that are owned by each department..

c) Retrieve the Ssn and Address of employees who work for the HR department and have female dependent.

d) Retrieve the first name and last name of all employees who work for all departments except the HR department.

e) Retrieve the last name and Ssn of employees who work on more than three projects.

f) Make a list of the distinct names of all employees who in the HR department and work on projects that are located in Sharjah.

Exercise4: write SQL script as requirement below

a. Retrieve the names of all employees who work in the department that has the employee with the highest salary among all employees.

b. Retrieve the names of all employees whose supervisor's supervisor has '888665555' for Ssn.

c. Retrieve the names of employees who make at least $10,000 more than the employee who is paid the least in the company.

d. Retrieve the names of all employees in department 5 who work more than 10 hours per week on the ProductX project.

e. List the names of all employees who have a dependent with the same first name as themselves.

f. Find the names of all employees who are directly supervised by 'Franklin Wong'.