PART - 1

CREATE TABLE EMPLOYEE(Fname VARCHAR(20) NOT NULL,

Minit CHAR,

Lname VARCHAR(20) NOT NULL, Ssn CHAR(9) NOT NULL,

Bdate DATE,

Address VARCHAR(100),

Sex CHAR,

Salary DECIMAL(20,5),

Super_ssn CHAR(9),

Dno INT **NOT NULL**,

CONSTRAINT EMPLOYEEPK

PRIMARY KEY(Ssn));

CREATE TABLE DEPARTMENT(Dname VARCHAR(30) NOT NULL,

Dnumber INT NOT NULL, Mgr_ssn CHAR(9) NOT NULL,

Mgr_start_date DATE,

CONSTRAINT DEPARTMENTPK

PRIMARY KEY(Dnumber),

CONSTRAINT DEPARTMENTSK

UNIQUE(Dname),

CONSTRAINT DEPARTMENTEK

FOREIGN KEY(Mgr_ssn) REFERENCES EMPLOYEE(Ssn) ON DELETE

CASCADE);

CREATE TABLE DEPT LOCATIONS(Dnumber INT NOT NULL,

Dlocation VARCHAR(15) NOT NULL,

CONSTRAINT DEPT_LOCATIONSPK
PRIMARY KEY(Dnumber, Dlocation),
CONSTRAINT DEPT_LOCATIONSFK

FOREIGN KEY(Dnumber) REFERENCES DEPARTMENT(Dnumber) ON

DELETE CASCADE);

CREATE TABLE PROJECT(Pname VARCHAR(20) NOT NULL,

Pnumber INT **NOT NULL**,

Plocation VARCHAR(50),

Dnum INT **NOT NULL**,

CONSTRAINT PROJECTPK PRIMARY KEY(Pnumber), CONSTRAINT PROJECTSK

UNIQUE(Pname),

CONSTRAINT PROJECTFK

FOREIGN KEY(Dnum) REFERENCES DEPARTMENT(Dnumber) ON DELETE

CASCADE);

CREATE TABLE WORKS_ON(Essn CHAR(9) NOT NULL,

Pno INT **NOT NULL**, Hours DECIMAL(3,1) **NOT NULL**,

CONSTRAINT WORKS_ONPK PRIMARY KEY(Essn, Pno), CONSTRAINT WORKS_ONFK

FOREIGN KEY(ESSN) REFERENCES EMPLOYEE(SSN) ON DELETE CASCADE,

CONSTRAINT WORKS_ONFK1

FOREIGN KEY(Pno) REFERENCES PROJECT(Pnumber) **ON DELETE CASCADE**);

CREATE TABLE DEPENDENT(Essn CHAR(9) NOT NULL,

Dependent_name VARCHAR(30) NOT NULL,

Sex CHAR, Bdate DATE,

Relationship VARCHAR(10),

CONSTRAINT DEPENDENTPK

PRIMARY KEY(Essn, Dependent_name),

CONSTRAINT DEPENDENTFK

FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn) ON DELETE CASCADE);