```
Exp 3
CREATE DATABASE Company;
USE Company;
-- Creating the EMPLOYEE table
CREATE TABLE EMPLOYEE (
Fname VARCHAR(15) NOT NULL,
Minit CHAR,
Lname VARCHAR(15) NOT NULL,
Ssn CHAR(9) NOT NULL,
Bdate DATE,
Address VARCHAR(30).
Sex CHAR.
Salary DECIMAL(10,2),
Super ssn CHAR(9),
Dno INT NOT NULL,
PRIMARY KEY (Ssn)
);
CREATE TABLE DEPARTMENT
Dname VARCHAR(15) NOT NULL.
Dnumber INT NOT NULL,
Mgr_ssn CHAR(9) NOT NULL,
Mgr start date DATE,
PRIMARY KEY (Dnumber),
UNIQUE (Dname),
FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn)
);
-- Creating the DEPT_LOCATIONS table
CREATE TABLE DEPT LOCATIONS (
Dnumber INT NOT NULL,
Diocation VARCHAR(15) NOT NULL,
PRIMARY KEY (Dnumber, Dlocation),
FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber)
);
-- Creating the PROJECT table
CREATE TABLE PROJECT (
Pname VARCHAR(15) NOT NULL,
Pnumber INT NOT NULL,
Plocation VARCHAR(15),
Dnum INT NOT NULL,
PRIMARY KEY (Pnumber),
UNIQUE (Pname),
FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber)
);
-- Creating the WORKS_ON table
CREATE TABLE WORKS_ON (
Essn CHAR(9) NOT NULL,
Pno INT NOT NULL,
Hours DECIMAL(3,1) NOT NULL,
PRIMARY KEY (Essn, Pno).
FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber)
-- Creating the DEPENDENT table
CREATE TABLE DEPENDENT (
Essn CHAR(9) NOT NULL,
Dependent_name VARCHAR(15) NOT NULL,
```

```
Exp 3
Sex CHAR.
Bdate DATE.
Relationship VARCHAR(8),
PRIMARY KEY (Essn, Dependent name),
FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn)
ALTER TABLE EMPLOYEE;
-- Inserting data into the DEPARTMENT table
INSERT INTO DEPARTMENT (Dname, Dnumber, Mgr ssn, Mgr start date) VALUES
('Research', 5, '333445555', '1988-05-22').
('Administration', 4, '987654321', '1995-01-01'),
('Headquarters', 1, '888665555', '1981-06-19');
-- Inserting data into the EMPLOYEE table
INSERT INTO EMPLOYEE (Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super ssn,
Dno) VALUES
('John', 'B', 'Smith', '123456789', '1965-01-09', '731 Fondren, Houston TX', 'M', 30000,
'333445555', 5),
('Franklin', 'T', 'Wong', '333445555', '1965-12-08', '638 Voss, Houston TX', 'M', 40000,
888665555', 5),
('Alicia', 'J', 'Zelaya', '999887777', '1968-01-19', '3321 Castle, Spring TX', 'F', 25000,
·987654321', 4),
('Jennifer', 'S', 'Wallace', '987654321', '1941-06-20', '291 Berry, Bellaire TX', 'F', 43000,
'888665555', 4),
('Ramesh', 'K', 'Narayan', '666884444', '1962-09-15', '975 Fire Oak, Humble TX', 'M', 38000,
'333445555', 5),
('Joyce', 'A', 'English', '453453453', '1972-07-31', '5631 Rice, Houston TX', 'F', 25000,
<sup>`</sup>333445555', 5),
('Ahmad', 'V', 'Jabbar', '987987987', '1969-03-29', '980 Dallas, Houston TX', 'M', 25000,
'987654321', 4),
('James', 'E', 'Borg', '888665555', '1937-11-10', '450 Stone, Houston TX', 'M', 55000, NULL, 1);
-- Inserting missing projects into the PROJECT table
INSERT INTO PROJECT (Pname, Pnumber, Plocation, Dnum) VALUES
('ProductX', 1, 'Bellaire', 5),
('ProductY', 2, 'Sugarland', 5),
('ProductZ', 3, 'Houston', 5);
-- Inserting data into the WORKS_ON table
INSERT INTO WORKS_ON (Essn, Pno, Hours) VALUES
('123456789', 1, 32.5),
(1234567891, 2, 7.5),
('666884444', 3, 40.0),
('453453453', 1, 20.0);
select * from PROJECT;
```