

```
create table Employee(  
    Fname varchar(30),  
    mname varchar(30),  
    lname varchar(30) not null,  
    Ssn varchar(10) not null primary key,  
    Bdate Date,  
    address varchar(50),  
    gender enum('M','F'),  
    salary numeric(10,2),  
    Super_Ssn varchar(10),  
    Dept_num numeric(10) not null  
);
```

```
create table Department(  
    Dept_num numeric(10) primary key,  
    Dept_name varchar(40),  
    Mgr_Ssn varchar(10),  
    Mgr_startdate varchar(15),  
    foreign key(Mgr_Ssn) references Employee(Ssn)  
);
```

```
CREATE TABLE Department_locations (  
    Dept_num NUMERIC(10),  
    location VARCHAR(40),  
    PRIMARY KEY (Dept_num, location), -- Composite Primary Key
```

FOREIGN KEY (Dept_num) REFERENCES Department(Dept_num) ON DELETE
CASCADE

);

create table Project(

Proj_num numeric(10) primary key,

Proj_name varchar(30),

Proj_location varchar(30),

Dept_num numeric(10),

foreign key (Dept_num) references Department(Dept_num) on delete cascade);

Create table Employee_Project(

Ssn varchar(10),

Proj_num numeric(10),

Hours numeric(5,2),

primary key(Ssn,Proj_num),

foreign key(Ssn) references Employee(Ssn) on delete cascade,

foreign key(Proj_num) references Project(Proj_num) on delete cascade

);

Create table Dependent (

Ssn varchar(10) primary key,

Dept_name varchar(40) ,

gender enum('M','F'),

bdate Date,

relationship varchar(30),

Foreign key(Ssn) references Employee(Ssn) on delete cascade);

```
INSERT INTO Employee (Fname, Mname, Lname, Ssn, Bdate, Address, Gender, Salary,
Super_Ssn, Dept_num, Blood_Group, Hobbies)
```

```
VALUES
```

```
('Alice', 'M', 'Johnson', '101', '1982-06-15', 'New York', 'F', 4000, NULL, 1, 'O+', 'Reading',
NULL),
```

```
('Bob', 'K', 'Smith', '102', '1989-07-20', 'Los Angeles', 'M', 3500, '101', 2, 'A+', 'Cycling', NULL),
```

```
('Charlie', 'L', 'Brown', '103', '1975-03-12', 'Chicago', 'M', 7000, '101', 3, 'B+', 'Swimming',
NULL),
```

```
('Daisy', 'N', 'Wilson', '104', '1991-05-30', 'Houston', 'F', 4800, '103', 1, 'AB+', 'Cooking', NULL),
```

```
('Ethan', 'P', 'Taylor', '105', '1990-08-17', 'Phoenix', 'M', 3900, '103', 2, 'O-', 'Painting', NULL),
```

```
('Fiona', 'Q', 'Davis', '106', '1985-11-25', 'Philadelphia', 'F', 5200, '101', 3, 'A-', 'Running', NULL),
```

```
('George', 'R', 'Anderson', '107', '1979-09-14', 'San Antonio', 'M', 5500, '106', 1, 'B-', 'Traveling',
NULL);
```

```
-- Insert Data for Department
```

```
INSERT INTO Department (Dept_num, Dept_name, Mgr_Ssn, Mgr_startdate)
```

```
VALUES (1, 'Marketing', '101', '2016-06-01'),
```

```
      (2, 'Sales', '103', '2017-09-15'),
```

```
      (3, 'Finance', '106', '2018-12-20');
```

```
-- Insert Data for Department_locations
```

```
INSERT INTO Department_locations (Dept_num, Location)
```

```
VALUES (1, 'New York'), (2, 'Los Angeles'), (3, 'Chicago');
```

```
-- Insert Data for Project
```

```
INSERT INTO Project (Proj_num, Proj_name, Proj_location, Dept_num)
```

```
VALUES (201, 'Alpha', 'New York', 1),
```

```
(202, 'Beta', 'Los Angeles', 2),  
(203, 'Gamma', 'Chicago', 3);
```

```
-- Insert Data for Employee_Project
```

```
INSERT INTO Employee_Project (Ssn, Proj_num, Hours)
```

```
VALUES ('101', 201, 40), ('102', 202, 35), ('103', 203, 38), ('104', 201, 30), ('105', 202, 25),  
('106', 203, 28), ('107', 201, 45);
```

```
-- Insert Data for Dependent
```

```
INSERT INTO Dependent (Ssn, Dept_name, Gender, Bdate, Relationship)
```

```
VALUES ('101', 'Marketing', 'F', '1988-04-12', 'Spouse'),  
('102', 'Sales', 'M', '2015-08-23', 'Child'),  
('103', 'Finance', 'F', '1990-01-10', 'Spouse'),  
('104', 'Marketing', 'M', '2017-06-05', 'Child'),  
('105', 'Sales', 'F', '1993-11-18', 'Spouse'),  
('106', 'Finance', 'M', '2020-02-29', 'Child'),  
('107', 'Marketing', 'F', '1998-09-09', 'Spouse');
```