

**EMPLOYEE table**

```
CREATE TABLE EMPLOYEE (
    Fname VARCHAR2(15) NOT NULL,
    Minit CHAR(1),
    Lname VARCHAR2(15) NOT NULL,
    Ssn CHAR(9) PRIMARY KEY,
    Bdate DATE,
    Address VARCHAR2(50),
    Sex CHAR(1) CHECK (Sex IN ('M', 'F')),
    Salary NUMBER(10,2) CHECK (Salary > 0),
    Super_ssn CHAR(9),
    Dno NUMBER(2),
    CONSTRAINT fk_emp_super FOREIGN KEY (Super_ssn) REFERENCES EMPLOYEE(Ssn)
);
```

**DEPARTMENT table**

```
CREATE TABLE DEPARTMENT (
    Dname VARCHAR2(25) NOT NULL UNIQUE,
    Dnumber NUMBER(2) PRIMARY KEY,
    Mgr_ssn CHAR(9) NOT NULL,
    Mgr_start_date DATE,
    CONSTRAINT fk_dept_mgr FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn)
);
```

```
ALTER TABLE EMPLOYEE
```

```
ADD CONSTRAINT fk_emp_dept FOREIGN KEY (Dno) REFERENCES DEPARTMENT(Dnumber);
```

**PROJECT table**

```
CREATE TABLE PROJECT (
    Pname VARCHAR2(25) NOT NULL UNIQUE,
    Pnumber NUMBER(3) PRIMARY KEY,
    Plocation VARCHAR2(25),
    Dnum NUMBER(2),
    CONSTRAINT fk_proj_dept FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber)
);
```

**WORKS\_ON table**

```
CREATE TABLE WORKS_ON (
    Essn CHAR(9),
    Pno NUMBER(3),
    Hours NUMBER(5,1) CHECK (Hours >= 0),
    PRIMARY KEY (Essn, Pno),
    CONSTRAINT fk_works_emp FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
    CONSTRAINT fk_works_proj FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber)
);
```

**DEPENDENT table**

```
CREATE TABLE DEPENDENT (
    Essn CHAR(9),
    Dependent_name VARCHAR2(25),
    Sex CHAR(1) CHECK (Sex IN ('M', 'F')),
    Bdate DATE,
    Relationship VARCHAR2(15),
    PRIMARY KEY (Essn, Dependent_name),
    CONSTRAINT fk_dep_emp FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn) ON DELETE CASCADE
);
```