

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  
);
```