create table Department (

Dname char(20) ,

Dnumber numeric(1) ,

Mgr\_ssn numeric(9) ,

Mgr\_start\_date date ,

primary key (dnumber));

create table employee (

Fname char(10) ,

Minit char(1) ,

Lname char(20) ,

Ssn numeric(9) ,

Bdate date ,

Address char(30) ,

Sex char(1) ,

Salary numeric(5) ,

Super\_ssn numeric(9),

Dno numeric(1) ,

Primary key (Ssn)

);

create table project (

Pname char(20) ,

Pnumber numeric(2) Primary Key,

Plocation char(20) ,

Dnum numeric(1)

);

create table works\_on (

Essn numeric(9) ,

Pno numeric(2) ,

Hours numeric(5,1),

Primary key (Essn, Pno)

);

create table dependent (

Essn numeric(9) ,

Dependent\_name char(10) ,

Sex char(1) ,

Bdate date ,

Relationship char(30) ,

primary key (Essn, Dependent\_name)

);

create table dept\_locations (

Dnumber numeric(1) ,

Dlocation char (15) ,

primary key (Dnumber, Dlocation)

);

insert into department values

('Research',5,333445555,'1988-05-22'),

('Administration',4,987654321,'1995-01-01'),

('Headquarters',1,888665555,'1981-06-19');

insert into employee 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',25000,333445555,5),

('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);

insert into project values

('ProductX',1,'Bellaire',5),

('ProductY',2,'Sugarland',5),

('ProductZ',3,'Houston',5),

('Computerization',10,'Stafford',4),

('Reorganization',20,'Houston',1),

('Newbenefits',30,'Stafford',4);

insert into works\_on values

(123456789,1,32.5),

(123456789,2,7.5),

(666884444,3,40.0),

(453453453,1,20.0),

(453453453,2,20.0),

(333445555,2,10.0),

(333445555,3,10.0),

(333445555,10,10.0),

(333445555,20,10.0),

(999887777,30,30.0),

(999887777,10,10.0),

(987987987,10,35.0),

(987987987,30,5.0),

(987654321,30,20.0),

(987654321,20,15.0),

(888665555,20,null);

insert into dependent values

(333445555,'Alice','F','1986-04-04','Daughter'),

(333445555,'Theodore','M','1983-10-25','Son'),

(333445555,'Joy','F','1958-05-03','Spouse'),

(987654321,'Abner','M','1942-02-28','Spouse'),

(123456789,'Michael','M','1988-01-04','Son'),

(123456789,'Alice','F','1988-12-30','Daughter'),

(123456789,'Elizabeth','F','1967-05-05','Spouse');

insert into dept\_locations values

(1,'Houston'),

(4,'Stafford'),

(5,'Bellaire'),

(5,'Sugarland'),

(5,'Houston');

alter table department

add constraint depemp foreign key (mgrssn) references employee(ssn);

alter table employee

add constraint empemp foreign key (superssn) references employee(ssn);