CREATE TABLE Hotel

(

hNum INTEGER,

hAdd VARCHAR2(50),

mID INTEGER,

hPhone CHAR(7)

CONSTRAINT uniq\_hPhone UNIQUE,

hNoOfRooms INTEGER,

CONSTRAINT pk\_hNum PRIMARY KEY (hNum),

CONSTRAINT check\_hNoOfRooms CHECK (hNoOfRooms>0 AND hNoOfRooms <=200),

CONSTRAINT check\_hPhone CHECK (hPhone>='2222222' AND hPhone <='9999999')

);

CREATE TABLE Room

(

rNum INTEGER,

rLoc INTEGER,

rRate NUMBER(5,2),

rOccupied CHAR(5),

hNum INTEGER,

rSize INTEGER,

CONSTRAINT pk\_rNum PRIMARY KEY (rNum, hNum),

CONSTRAINT check\_rNum CHECK (rNum>0 AND rNum<=200),

CONSTRAINT check\_rRate CHECK (rRate>=50),

CONSTRAINT check\_rSize CHECK (rSize>=2 AND rSize<=4),

CONSTRAINT check\_rOccupied CHECK (rOccupied = 'false' OR rOccupied = 'true'),

CONSTRAINT check\_rLoc CHECK (rLoc>0 AND rLoc<=100)

);

CREATE TABLE Manager

(

mID INTEGER,

mAdd VARCHAR2(50),

mEmail VARCHAR2(200),

mPhone CHAR(7),

mSal NUMBER(7,2),

mName VARCHAR2(50),

CONSTRAINT pk\_mID PRIMARY KEY (mID),

CONSTRAINT check\_mID CHECK(mID>=111111 AND mID<=999999),

CONSTRAINT check\_mPhone CHECK(mPhone>= '2222222' AND mPhone<= '9999999')

);

CREATE TABLE CareTaker

(

ctID INTEGER,

ctEmail VARCHAR2(200),

ctSal NUMBER(7,2),

hNum INTEGER,

ctPhone CHAR(7),

ctName VARCHAR2(50),

ctAdd VARCHAR2(50),

CONSTRAINT pk\_ctID PRIMARY KEY (ctID),

CONSTRAINT check\_ctID CHECK (ctID>=111111 AND ctID<=999999),

CONSTRAINT check\_ctPhone CHECK (ctPhone>= '2222222' AND ctPhone <= '9999999'),

CONSTRAINT check\_ctSal CHECK (ctSal>20000 AND ctSal<40000)

);

CREATE TABLE Customer

(

cNum INTEGER,

cAdd VARCHAR2(50),

hNum INTEGER,

rNum INTEGER,

cName VARCHAR2(50),

cEndDate DATE,

cSSN CHAR(9)

CONSTRAINT uniq\_cSSN UNIQUE,

cCreditCard VARCHAR2(25),

cStartDate DATE,

CONSTRAINT pk\_cNum PRIMARY KEY (cNum),

CONSTRAINT check\_cSSN CHECK (cSSN > '600000000' AND cSSN <= '699999999')

);

ALTER TABLE Hotel ADD CONSTRAINT fk\_mIDForHotel FOREIGN KEY(mID) REFERENCES Manager(mID);

ALTER TABLE Room ADD CONSTRAINT fk\_hNumForRoom FOREIGN KEY(hNum) REFERENCES Hotel(hNum);

ALTER TABLE CareTaker ADD CONSTRAINT fk\_hNumForCareTaker FOREIGN KEY(hNum) REFERENCES Hotel(hNum);

ALTER TABLE Customer ADD CONSTRAINT fk\_hNumrNumForCustomer FOREIGN KEY(rNum,hNum) REFERENCES Room(rNum,hNum);

ALTER TABLE Customer ADD CONSTRAINT fk\_hNumForCustomer FOREIGN KEY(hNum) REFERENCES Hotel(hNum);