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Exercise Solution :

```
CREATE TABLE Role (  
    roleID INT PRIMARY KEY,  
    roleName VARCHAR(50)  
);
```

```
CREATE TABLE Patient (  
    patientID INT PRIMARY KEY,  
    name VARCHAR(100),  
    age INT,  
    healthCondition VARCHAR(255)  
);
```

```
CREATE TABLE Employee (  
    employeeID INT PRIMARY KEY,  
    name VARCHAR(100),  
    jobTitle VARCHAR(100),  
    department VARCHAR(100),  
    roleID INT,  
    FOREIGN KEY (roleID) REFERENCES Role(roleID)  
);
```

```
CREATE TABLE Medicine (  
    medicineID INT PRIMARY KEY,  
    medicineName VARCHAR(100),  
    dosage VARCHAR(50)  
);
```

```
CREATE TABLE Room (  
    roomID INT PRIMARY KEY,  
    roomName VARCHAR(100),  
    roomType VARCHAR(50)
```

```
roomNumber INT PRIMARY KEY,  
  
floor INT  
);
```

```
CREATE TABLE AssignedRoom (  
  
patientID INT PRIMARY KEY,  
  
roomNumber INT,  
  
FOREIGN KEY (patientID) REFERENCES Patient(patientID),  
  
FOREIGN KEY (roomNumber) REFERENCES Room(roomNumber)  
);
```

```
CREATE TABLE ProvidesCare (  
  
employeeID INT,  
  
patientID INT,  
  
PRIMARY KEY (employeeID, patientID),  
  
FOREIGN KEY (employeeID) REFERENCES Employee(employeeID),  
  
FOREIGN KEY (patientID) REFERENCES Patient(patientID)  
);
```

```
CREATE TABLE PatientMedicine (  
  
patientID INT,  
  
medicineID INT,  
  
PRIMARY KEY (patientID, medicineID),  
  
FOREIGN KEY (patientID) REFERENCES Patient(patientID),  
  
FOREIGN KEY (medicineID) REFERENCES Medicine(medicineID)  
);
```

```
INSERT INTO Role (roleID, roleName) VALUES (101, 'Doctor');  
  
INSERT INTO Role (roleID, roleName) VALUES (102, 'Nurse');  
  
INSERT INTO Role (roleID, roleName) VALUES (103, 'Technician');
```

INSERT INTO Role (roleID, roleName) VALUES (104, 'Pharmacist');

INSERT INTO Patient (patientID, name, age, healthCondition) VALUES (1, 'Omar Esam', 23, 'Diabetes');

INSERT INTO Patient (patientID, name, age, healthCondition) VALUES (2, 'Abdullah Hani', 24, 'Hypertension');

INSERT INTO Patient (patientID, name, age, healthCondition) VALUES (3, 'Haitham Quraan', 27, 'Asthma');

INSERT INTO Employee (employeeID, name, jobTitle, department, roleID) VALUES (1, 'Husam Ahmed', 'Doctor', 'Cardiology', 101);

INSERT INTO Employee (employeeID, name, jobTitle, department, roleID) VALUES (2, 'Raseel Ahmed', 'Nurse', 'Emergency', 102);

INSERT INTO Employee (employeeID, name, jobTitle, department, roleID) VALUES (3, 'Aiah', 'Technician', 'Radiology', 103);

INSERT INTO Employee (employeeID, name, jobTitle, department, roleID) VALUES (4, 'Moneeb', 'Surgeon', 'Surgery', 101);

INSERT INTO Employee (employeeID, name, jobTitle, department, roleID) VALUES (5, 'Haneen', 'Pharmacist', 'Pharmacy', 104);

UPDATE Patient

SET healthCondition = 'Stable'

WHERE patientID = 1;

DELETE FROM Employee

WHERE employeeID = 4;

SELECT * FROM Role;

SELECT * FROM Patient;

SELECT * FROM Employee;

	EMPLOYEEID	NAME	JOBTITLE	DEPARTMENT	ROLEID
1	1	Husam Ahmed	Doctor	Cardiology	101
2	2	Raseel Ahmed	Nurse	Emergency	102
3	3	Aiah	Technician	Radiology	103
4	5	Haneen	Pharmacist	Pharmacy	104

	PATIENTID	NAME	AGE	HEALTHCONDITION
1	1	Omar Esam	23	Stable
2	2	Abdullah Hani	24	Hypertension
3	3	Haitham Quraan	27	Asthma

	ROLEID	ROLENAME
1	101	Doctor
2	102	Nurse
3	103	Technician
4	104	Pharmacist