

```
CREATE TABLE Nurse (  
    nurse_id INT NOT NULL PRIMARY KEY,  
    fullName VARCHAR(30),  
    email VARCHAR(20),  
    phoneNum VARCHAR(11)  
);
```

```
CREATE TABLE Doctor (  
    doctor_id INT NOT NULL PRIMARY KEY,  
    fullName VARCHAR(30),  
    email VARCHAR(20),  
    phoneNum VARCHAR(11),  
    specialty VARCHAR(20)  
);
```

```
CREATE TABLE Appointment(  
    apptID INT NOT NULL PRIMARY KEY,  
    time DATETIME  
);
```

```
CREATE TABLE Department (  
    buildingName VARCHAR(20) NOT NULL,  
    dptName VARCHAR(20),  
    PRIMARY KEY (buildingName)  
);
```

```
CREATE TABLE Chart(  
    chartNo INT NOT NULL PRIMARY KEY,  
    patientId INT,
```

```
    DOB DATE,  
    labResult VARCHAR(35),  
    doctorAssigned VARCHAR(20),  
    nurseID INT  
);
```

```
CREATE TABLE Labs(  
    labNo INT NOT NULL PRIMARY KEY,  
    patientID INT,  
    testID INT,  
    results VARCHAR(20)  
);
```

```
CREATE TABLE HospitalStaff (  
    staffID INT NOT NULL PRIMARY KEY,  
    fullName VARCHAR(30),  
    dID INT NOT NULL,  
    nID INT NOT NULL,  
    FOREIGN KEY (dID) REFERENCES Doctor(doctor_id),  
    FOREIGN KEY (nID) REFERENCES Nurse(nurse_id)  
);
```

```
CREATE TABLE Patient (  
    patientID INT NOT NULL PRIMARY KEY,  
    fullName VARCHAR(30),  
    phoneNumber VARCHAR(11),  
    address VARCHAR(30),  
    DOB VARCHAR(10)  
);
```

```
CREATE TABLE Department_Doctor(  
    buildingName VARCHAR(20) NOT NULL,  
    doctor_id INT NOT NULL,  
    PRIMARY KEY(buildingName, doctor_id),  
    FOREIGN KEY (buildingName) REFERENCES Department(buildingName),  
    FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)  
);
```

```
CREATE TABLE Doctor_Chart(  
    doctor_id INT NOT NULL,  
    chartNo INT NOT NULL,  
    PRIMARY KEY(doctor_id, chartNo),  
    FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id),  
    FOREIGN KEY (chartNo) REFERENCES Chart(chartNo)  
);
```

```
CREATE TABLE Doctor_Nurse(  
    doctor_id INT NOT NULL,  
    nurse_id INT NOT NULL,  
    PRIMARY KEY(doctor_id, nurse_id),  
    FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id),  
    FOREIGN KEY (nurse_id) REFERENCES Nurse(nurse_id)  
);
```

```
CREATE TABLE Nurse_Chart(  
    nurse_id INT NOT NULL,  
    chartNo INT NOT NULL,  
    PRIMARY KEY(nurse_id, chartNo),
```

```
FOREIGN KEY (nurse_id) REFERENCES Nurse(nurse_id),  
FOREIGN KEY (chartNo) REFERENCES Chart(chartNo)  
);
```

```
CREATE TABLE HospitalStaff_Patient(  
    staffID INT NOT NULL,  
    patientID INT NOT NULL,  
    PRIMARY KEY(staffID, patientID),  
    FOREIGN KEY (staffID) REFERENCES HospitalStaff(staffID),  
    FOREIGN KEY (patientID) REFERENCES Patient(patientID)  
);
```

```
CREATE TABLE HospitalStaff_Doctor(  
    staffID INT NOT NULL,  
    doctor_id INT NOT NULL,  
    PRIMARY KEY(staffID, doctor_id),  
    FOREIGN KEY (staffID) REFERENCES HospitalStaff(staffID),  
    FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)  
);
```

```
CREATE TABLE Patient_Appointment(  
    patientID INT NOT NULL,  
    apptID INT NOT NULL,  
    PRIMARY KEY (patientID, apptID),  
    FOREIGN KEY (patientID) REFERENCES Patient(patientID),  
    FOREIGN KEY(apptID) REFERENCES Appointment(apptID)  
);
```

```
CREATE TABLE Appointment_Doctor(  

```

```
apptID INT NOT NULL,  
doctor_id INT NOT NULL,  
PRIMARY KEY(apptID, doctor_id),  
FOREIGN KEY (apptID) REFERENCES Appointment(apptID),  
FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)  
);
```

```
CREATE TABLE Patient_Doctor(  
patientID INT NOT NULL,  
doctor_id INT NOT NULL,  
PRIMARY KEY(patientID, doctor_id),  
FOREIGN KEY (patientID) REFERENCES Patient(patientID),  
FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)  
);
```

```
CREATE TABLE Patient_Labs(  
patientID INT NOT NULL,  
labNo INT NOT NULL,  
PRIMARY KEY(patientID, labNo),  
FOREIGN KEY (patientID) REFERENCES Patient(patientID),  
FOREIGN KEY (labNo) REFERENCES Labs(labNo)  
);
```

```
CREATE TABLE Doctor_Labs(  
doctor_id INT NOT NULL,  
labNo INT NOT NULL,  
PRIMARY KEY(doctor_id, labNo),  
FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id),  
FOREIGN KEY (labNo) REFERENCES Labs(labNo)
```

);

STEP 1: PatientID, AppointmentID, Chart, Department, Nurse, Doctor, Labs

**PK**

**FKNN**

STEP 2: HospitalStaff, Department\_Doctor, Doctor\_Chart, Doctor\_Nurse, Nurse\_Chart

STEP 3: HospitalStaff\_Patient, HospitalStaff\_Doctor

STEP 4: Patient\_Appointment, Appointment\_Doctor, Patient\_Doctor, Patient\_Labs, Doctor\_Labs