

### **Doctor table**

```
CREATE TABLE doctor (  
    DoctorID int NOT NULL,  
    Name varchar(50);  
    Field varchar(255),  
    Degree varchar(255),  
    DepartmentID int NOT NULL,  
    WorkerID int NOT NULL,  
    PRIMARY KEY (DoctorID),  
    CONSTRAINT FK_departmentdoctor FOREIGN KEY (DepartmentID)  
    REFERENCES department(DepartmentID),  
    CONSTRAINT FK_workerdoctor FOREIGN KEY (WorkerID)  
    REFERENCES worker(WorkerID));
```

### **Department table**

```
CREATE TABLE Department (  
    DepartmentID int NOT NULL,  
    Workers varchar(255),  
    Buildinglocation varchar(255),  
    PRIMARY KEY (DepartmentID));
```

### **Worker table**

```
CREATE TABLE worker (  
    WorkerID int NOT NULL,  
    Name varchar(100),  
    Phonenummer int,  
    Gender varchar(6) ,  
    Salary int ,  
    PRIMARY KEY (WorkerID)  
);
```

### **Staff table**

```
CREATE TABLE staff (  
    StaffID int NOT NULL,  
    Jobtitle varchar(100),  
    WorkerID int(10),  
    PRIMARY KEY ( StaffID),  
    CONSTRAINT FK_workerstaff FOREIGN KEY (WorkerID)  
    REFERENCES worker(WorkerID)  
);
```

### **CafeteriaStaff table**

```
CREATE TABLE CafeteriaStaff (  
    StaffID int NOT NULL,  
    CafeteriaID int NOT NULL,  
    Position varchar(100),  
    PRIMARY KEY ( CafeteriaID),  
    CONSTRAINT FK_staff_CafeteriaStaff FOREIGN KEY (StaffID)  
    REFERENCES staff(StaffID),  
    CONSTRAINT FK_Cafeteria_CafeteriaStaff FOREIGN KEY (CafeteriaID)  
    REFERENCES cafeteria(CafeteriaID)  
);
```

### **Cafeteria table**

```
CREATE TABLE Cafeteria (  
    CafeteriaID int NOT NULL,  
    Food_Type varchar(100),  
    Seating varchar(100),  
    PRIMARY KEY ( CafeteriaID)  
  
);
```

### **Patient table**

```
CREATE TABLE patient (  
    PatientID int NOT NULL,  
    Contact_number int,  
    Name varchar(50),  
    Address varchar(50),  
    Gender varchar(50),  
    Age varchar(50),  
    Blood_Type varchar(10),  
    CafeteriaID int,  
    BillID int,  
    PRIMARY KEY ( PatientID),  
    CONSTRAINT FK_Cafeteria_patient FOREIGN KEY (CafeteriaID)  
    REFERENCES cafeteria(CafeteriaID),  
    CONSTRAINT FK_Cafeteria_bill FOREIGN KEY ( BillID)  
    REFERENCES bill( BillID)  
);
```

### **Bill table**

```
CREATE TABLE bill (  
    BillID int NOT NULL,  
    Tests varchar(50),  
    TreatmentType varchar(100),  
    Time_Admitted timestamp,  
    prescription varchar(100),  
    PRIMARY KEY ( BillID) );
```

### **Diagnosis table**

```
CREATE TABLE diagnosis (  
    PatientID int NOT NULL,
```

```

    DoctorID int NOT NULL,
illness varchar(50),
    PRIMARY KEY ( illness),
    CONSTRAINT FK_patientdiagnosis FOREIGN KEY (PatientID)
REFERENCES patient(PatientID),
    CONSTRAINT FK_billdiagnosis FOREIGN KEY ( DoctorID)
REFERENCES doctor( DoctorID)
);

```

### **Tests table**

```

CREATE TABLE tests (
    TestID int NOT NULL,
    DoctorID int NOT NULL,
illness varchar(50),
    PatientID int NOT NULL,
    Result varchar(100),
    PRIMARY KEY ( TestID),
    CONSTRAINT FK_doctortests FOREIGN KEY (DoctorID)
REFERENCES doctor(DoctorID),
    CONSTRAINT FK_diagnostests FOREIGN KEY ( illness)
REFERENCES diagnosis( illness),
    CONSTRAINT FK_patienttests FOREIGN KEY ( PatientID)
REFERENCES patient( PatientID) );

```

### **Doctor\_patient table**

```

CREATE TABLE doctor_patient (
    DoctorID int NOT NULL,
    PatientID int NOT NULL,
Time timestamp,
    CONSTRAINT FK_doctor_doctor_patient FOREIGN KEY (DoctorID)
REFERENCES doctor(DoctorID),

```

```
CONSTRAINT FK_patientdoctor_patient FOREIGN KEY ( PatientID)
REFERENCES patient( PatientID)
);
```

### **Medication table**

```
CREATE TABLE medication (
    MedicationID int NOT NULL,
    Doses varchar(255),
    Expiration_Date date,
    PRIMARY KEY (MedicationID )
);
```

### **medication\_prescribed table**

```
CREATE TABLE medication_prescribed (
    MedicationID int NOT NULL,
    PatientID int NOT NULL,
    PrescriptionID int NOT NULL,
    PRIMARY KEY (PrescriptionID ),
    CONSTRAINT FK_patient_medication_prescribed FOREIGN KEY ( PatientID)
REFERENCES patient( PatientID),
    CONSTRAINT FK_medication_medication_prescribed FOREIGN KEY ( MedicationID)
REFERENCES medication( MedicationID) );
```

### **The query for (medication, medication\_prescribed )**

```
SELECT
medication_prescribed.PrescriptionID,medication.Doses,medication.Expiration_Date,medication_prescr
ibed.PatientID
FROM medication_prescribed
JOIN medication ON medication_prescribed.MedicationID=medication.MedicationID;
```

### Query for doctor info

```
SELECT
doctor.DoctorID,doctor.Feild,doctor.Degree,department.Workers,department.Buildinglocation,patient.
Name,patient.Address,patient.Gender,patient.Age,patient.Bload_Type,patient.Contact_number
FROM doctor
JOIN department ON doctor.DepartmentID=department.DepartmentID
JOIN patient ON doctor.DoctorID=patient.PatientID
WHERE patient.Age<12
AND doctor_patient.Time<>2022
ORDER BY patient.Name ASC,doctor.Name DESC;
```