Feedback:

Your model has little information. Many entities have no attributes other than PK. Naming convention is confusing (eg. Patient_Doctor_idDoctor) and inconsistent.

Changes made:

- Added more entities
- Maintained naming consistency across the ERD

The main purpose of the system is to manage patient's previous medical history, current medical conditions, doctors assigned for the treatment and medicines prescribed in order to track the patient's treatment process.

Revised Objectives :

1. To maintain patient's information such as name, address, contact number, date of birth **(PatientInformation)**
2. To maintain data on patient's appointments. **(PatientAppointment)**
3. To maintain patient's previous medical history **(PatientMedicalHistory)**
4. To maintain the data for prescription given to the patient after every treatment **(Prescription)**
5. To maintain Doctor's information like name, address, contact number **(DoctorInformation)**
6. To maintain appointment schedule information assigned to each Doctor. **(DoctorSchedule)**
7. To maintain Insurance information for a Patient **(InsuranceInformation)**
8. To maintain information about the items that are used during the treatment (For e.g. Number of syringes, bandages, gloves) in Supplies **(InventoryInformation)**
9. To maintain data on Drug Catalogue containing all drugs used for treating a patient during the treatment **(DrugInformation)**
10. To maintain patient's treatment invoice information **(Invoice Information)**
11. To maintain data on patient's treatment **(PatientTreatment)**
12. To maintain data on patient's symptoms **(PatientSymptom)**

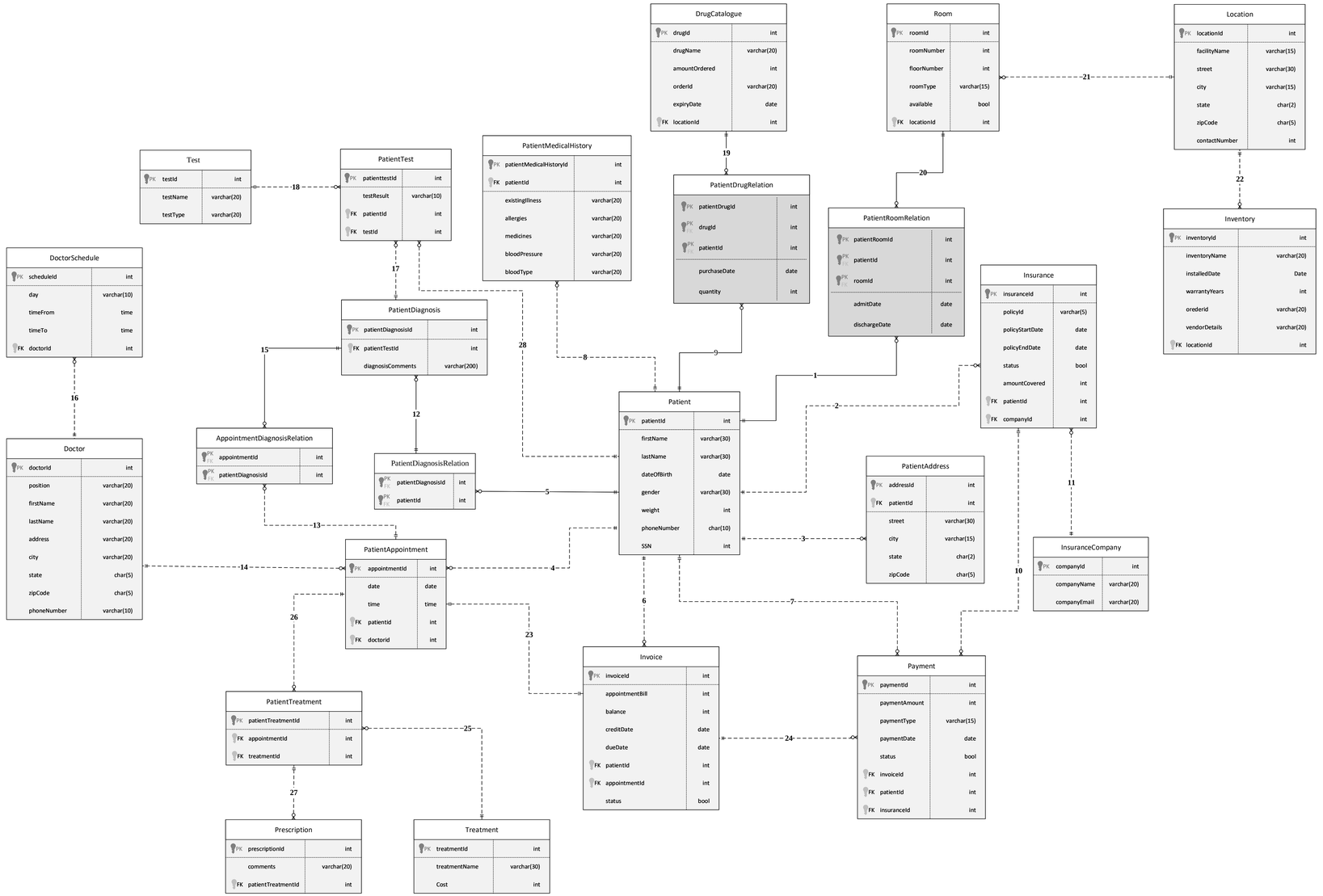
Revised Entities:

Medical databases serve a critical function in healthcare, including the areas of patient care, administration, research and education. These data may be used for local assessments or evaluations within a healthcare system, such as for specific outpatient conditions or inpatient hospital events. The data may also be used regionally or nationally for assessing performance within or across healthcare systems. The goal is to store details pertaining to a hospital in a relational database. Following are the entities involved in the model:

1. DoctorSchedule
2. Doctor
3. Test
4. AppointmentDiagnosisRelation

5. PatientDiagnosisRelation
6. PatientAppointment
7. PatientDiagnosis
8. PatientTest
9. PatientTreatment
10. Prescription
11. Treatment
12. PatientMedicalHistory
13. DrugCatalogue
14. PatientDrugRelation
15. Patient
16. Invoice
17. PatientRoomRelation
18. Room
19. Insurance
20. PatientAddress
21. Payment
22. InsuranceCompany
23. Inventory
24. Location

Final ERD (zoom to see clearly):


DrugCatalogue
drugId int
drugName varchar(20)
amountOrdered int
orderId varchar(20)
expiryDate date
locationId int
Room
roomId int
roomNumber int
floorNumber int
roomType varchar(15)
available bool
locationId int
Location
locationId int
facilityName varchar(15)
street varchar(30)
city varchar(15)
state char(2)
zipCode char(5)
contactNumber int
Test
testId int
testName varchar(20)
testType varchar(20)
PatientTest
patienttestId int
testResult varchar(10)
patientId int
testId int
PatientMedicalHistory
patientMedicalHistoryId int
patientId int
existingIllness varchar(20)
allergies varchar(20)
medicines varchar(20)
bloodPressure varchar(20)
bloodType varchar(20)
PatientDrugRelation
patientDrugId int
drugId int
patientId int
purchaseDate date
quantity int
PatientRoomRelation
patientRoomId int
patientId int
roomId int
admitDate date
dischargeDate date
Inventory
inventoryId int
inventoryName varchar(20)
installedDate Date
warrantyYears int
orederId varchar(20)
vendorDetails varchar(20)
locationId int
DoctorSchedule
scheduleId int
day varchar(10)
timeFrom time
timeTo time
doctorId int
PatientDiagnosis
patientDiagnosisId int
patientTestId int
diagnosisComments varchar(200)
Insurance
insuranceId int
policyId varchar(5)
policyStartDate date
policyEndDate date
status bool
amountCovered int
patientId int
companyId int
Patient
patientId int
firstName varchar(30)
lastName varchar(30)
dateOfBirth date
gender varchar(30)
weight int
phoneNumber char(10)
SSN int
AppointmentDiagnosisRelation
appointmentId int
patientDiagnosisId int
PatientDiagnosisRelation
patientDiagnosisId int
patientId int
PatientAddress
addressId int
patientId int
street varchar(30)
city varchar(15)
state char(2)
zipCode char(5)
InsuranceCompany
companyId int
companyName varchar(20)
companyEmail varchar(20)
Doctor
doctorId int
position varchar(20)
firstName varchar(20)
lastName varchar(20)
address varchar(20)
city varchar(20)
state char(5)
zipCode char(5)
phoneNumber varchar(10)
PatientAppointment
appointmentId int
date date
time time
patientId int
doctorId int
Invoice
invoiceId int
appointmentBill int
balance int
creditDate date
dueDate date
patientId int
appointmentId int
status bool
Payment
paymentId int
paymentAmount int
paymentType varchar(15)
paymentDate date
status bool
invoiceId int
patientId int
insuranceId int
PatientTreatment
patientTreatmentId int
appointmentId int
treatmentId int
Prescription
prescriptionId int
comments varchar(20)
patientTreatmentId int
Treatment
treatmentId int
treatmentName varchar(30)
Cost int
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