**PART – 1**

**DDL Commands to create tables:**

1. **Patient**CREATE TABLE Patient (  
    PatientID SERIAL PRIMARY KEY,  
    BloodTypeID INTEGER REFERENCES BloodGroup(BloodTypeID),  
    Name VARCHAR(50),  
    Age INTEGER,  
    Gender VARCHAR(10)  
   );

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1. **BloodGroup**CREATE TABLE BloodGroup (  
    BloodTypeID SERIAL PRIMARY KEY,  
    BloodType VARCHAR(5)  
   );

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1. **InsuranceProvider**  
   CREATE TABLE InsuranceProvider (  
    InsuranceProviderID SERIAL PRIMARY KEY,  
    PatientID INTEGER REFERENCES Patient(PatientID),  
    InsuranceNumber VARCHAR(20) UNIQUE,  
    InsuranceProviderName VARCHAR(50)  
   );

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1. AdmissionCREATE TABLE Admission (  
    AdmissionID SERIAL PRIMARY KEY,  
    PatientID INTEGER REFERENCES Patient(PatientID),  
    DoctorID INTEGER REFERENCES Doctor(DoctorID),  
    HospitalID INTEGER REFERENCES Hospital(HospitalID),  
    MedicationID INTEGER REFERENCES Medication(MedicationID),  
    AdmissionDate DATE,  
    DischargeDate DATE  
   );

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1. AdmissionTypeCREATE TABLE AdmissionType (

AdmissionTypeID SERIAL PRIMARY KEY,

AdmissionID INTEGER REFERENCES Admission(AdmissionID),

AdmissionType VARCHAR(20)

);

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1. BillingCREATE TABLE Billing (

BillingID SERIAL PRIMARY KEY,

AdmissionID INTEGER REFERENCES Admission(AdmissionID),

BillingAmount DECIMAL(10,2)

);

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1. **Test**

CREATE TABLE Test (

TestID SERIAL PRIMARY KEY,

TestName VARCHAR(50) NOT NULL

);

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1. TestResult

CREATE TABLE TestResult (

AdmissionID INTEGER REFERENCES Admission(AdmissionID),

TestID INTEGER REFERENCES Test(TestID),

TestResults TEXT,

PRIMARY KEY (AdmissionID, TestID)

);

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1. **Hospital**

CREATE TABLE Hospital (

HospitalID SERIAL PRIMARY KEY,

HospitalName VARCHAR(50) NOT NULL

);

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1. **Room**

CREATE TABLE Room (

RoomID SERIAL PRIMARY KEY,

HospitalID INTEGER REFERENCES Hospital(HospitalID),

RoomNumber INTEGER

);

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1. Doctor

CREATE TABLE Doctor (

DoctorID SERIAL PRIMARY KEY,

HospitalID INTEGER REFERENCES Hospital(HospitalID),

DoctorName VARCHAR(50) NOT NULL

);

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1. Medication

CREATE TABLE Medication (

MedicationID SERIAL PRIMARY KEY,

DiagnosisID INTEGER REFERENCES Diagnosis(DiagnosisID),

MedicineName VARCHAR(50) NOT NULL

);

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1. Diagnosis

CREATE TABLE Diagnosis (

DiagnosisID SERIAL PRIMARY KEY,

MedicalCondition VARCHAR(100) NOT NULL

);

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1. DiagAdm (Associate Entity)

CREATE TABLE DiagAdm (

AdmissionID INTEGER REFERENCES Admission(AdmissionID),

DiagnosisID INTEGER REFERENCES Diagnosis(DiagnosisID),

PRIMARY KEY (AdmissionID, DiagnosisID)

);

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**PART – 2**

**PART – 3**

**PART – 4**