

Database Design Term Project: Wellness Clinic

List assumptions

- A patient may have more than one appointment on the same day.
- A patient may have more than one visit on the same day.
- Each appointment is associated with exactly one visit outcome (prescription, procedure, lab test) through the VisitOutcome table.
- Each clinic employee (physician, pharmacist, non-medical staff) is associated with a specific clinic through the ClinicEmployee table.
- A delivery may be associated with multiple delivery rooms, as indicated by the DeliveryRoom table.
- Each insurance company statement (Statement) is associated with a patient, a prescription, a procedure, and a visit.
- Lab tests are performed by medical staff (Physician) and are associated with a specific patient and location.
- Each medication in the Medication table is associated with a pharmacist through the PharmacistID foreign key.
- Monthly activity reports in the MonthlyActivityReport table are associated with a clinic and a procedure.
- Operating rooms in the OperatingRoom table are associated with surgeries through the SurgeryID foreign key.
- Each patient is associated with a clinic through the ClinicID foreign key in the Patient table.
- Each prescription is associated with a medication, a physician, a patient, and a pharmacist.
- Procedures in the [Procedure] table are associated with surgeries, patients, and statements.
- Recovery rooms in the RecoveryRoom table are associated with patients and statements.
- Each surgery is associated with a surgeon, a patient, a procedure, and a room.
- Each visit is associated with a patient and a physician.
- Each visit outcome in the VisitOutcome table is associated with a specific visit, prescription, procedure, and lab test.

Data Dictionary

Appointment Table:

- AppointmentID (Primary Key, INT): Unique identifier for each appointment.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the appointment.
- StaffID (Foreign Key, INT): Identifier of the staff member associated with the appointment.
- AppointmentDate (DATETIME): Date and time of the appointment.
- ReasonForAppointment (TEXT): Reason for the appointment.
- Notes (TEXT): Additional notes for the appointment.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the appointment.
- VisitID (Foreign Key, INT): Identifier of the visit associated with the appointment.

Clinic Table:

- ClinicID (Primary Key, INT): Unique identifier for each clinic.
- Location (VARCHAR(255)): Location of the clinic.
- ContactInfo (VARCHAR(255)): Contact information for the clinic.
- LocationID (Foreign Key, INT): Identifier of the location performed associated with the clinic.

ClinicEmployee Table:

- EmployeeID (INT): Identifier for each employee.
- FirstName (VARCHAR(50)): First name of the employee.
- LastName (VARCHAR(50)): Last name of the employee.
- JobTitle (VARCHAR(255)): Job title of the employee.
- StaffID (Primary Key, INT): Unique identifier for each staff member.
- ContactInfo (VARCHAR(255)): Contact information for the employee.
- ClinicID (Foreign Key, INT): Identifier of the clinic associated with the employee.

Delivery Table:

- DeliveryID (Primary Key, INT): Unique identifier for each delivery.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the delivery.
- MidwifeID (Foreign Key, INT): Identifier of the midwife associated with the delivery.
- DeliveryDate (DATETIME): Date and time of the delivery.
- DeliveryRoomID (Foreign Key, INT): Identifier of the delivery room associated with the delivery.
- Notes (TEXT): Additional notes for the delivery.
- ProcedureName (VARCHAR(255)): Name of the procedure associated with the delivery.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the delivery.

DeliveryRoom Table:

- RoomID (Primary Key, INT): Unique identifier for each delivery room.
- RoomType (VARCHAR(50)): Type of the delivery room.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the delivery room.
- DeliveryID (Foreign Key, INT): Identifier of the delivery associated with the delivery room.

Hospital Table:

- HospitalID (Primary Key, INT): Unique identifier for each hospital.
- Location (VARCHAR(255)): Location of the hospital.
- ContactInfo (VARCHAR(255)): Contact information for the hospital.
- LocationID (Foreign Key, INT): Identifier of the location performed associated with the hospital.

InsuranceCompany Table:

- CompanyID (INT): Identifier for each insurance company.
- Name (VARCHAR(255)): Name of the insurance company.
- ContactInfo (VARCHAR(255)): Contact information for the insurance company.
- PatientID (Primary Key, INT): Identifier of the patient associated with the insurance company.
- StatementID (Foreign Key, INT): Identifier of the statement associated with the insurance company.

LabTest Table:

- TestID (Primary Key, INT): Unique identifier for each lab test.
- TestName (VARCHAR(255)): Name of the lab test.
- TestType (VARCHAR(50)): Type of the lab test.
- Results (TEXT): Results of the lab test.
- TestDate (DATE): Date of the lab test.
- StaffID (Foreign Key, INT): Identifier of the staff member associated with the lab test.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the lab test.
- LocationID (Foreign Key, INT): Identifier of the location performed associated with the lab test.

LocationPerformed Table:

- LocationID (Primary Key, INT): Unique identifier for each location performed.
- LocationName (VARCHAR(255)): Name of the location.
- LocationDescription (TEXT): Description of the location.

Physician Table:

- StaffID (Primary Key, INT): Unique identifier for each medical staff.
- FirstName (VARCHAR(50)): First name of the medical staff.
- LastName (VARCHAR(50)): Last name of the medical staff.
- Specialization (VARCHAR(255)): Specialization of the medical staff.
- LicenseNumber (VARCHAR(20)): License number of the medical staff.

- ContactInfo (VARCHAR(255)): Contact information for the medical staff.

Medication Table:

- MedicationID (Primary Key, INT): Unique identifier for each medication.
- Name (VARCHAR(255)): Name of the medication.
- Dosage (VARCHAR(50)): Dosage information for the medication.
- Price (DECIMAL(10, 2)): Price of the medication.
- Description (TEXT): Description of the medication.
- PharmacistID (Foreign Key, INT): Identifier of the pharmacist associated with the medication.

MonthlyActivityReport Table:

- ReportID (Primary Key, INT): Unique identifier for each monthly activity report.
- Month (INT): Month of the report.
- Year (INT): Year of the report.
- Visits (INT): Number of visits in the report.
- Surgeries (INT): Number of surgeries in the report.
- LabTests (INT): Number of lab tests in the report.
- Prescriptions (INT): Number of prescriptions in the report.
- AvgTimePerVisit (DECIMAL(5, 2)): Average time per visit in the report.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the report.
- ClinicID (Foreign Key, INT): Identifier of the clinic associated with the report.

NonMedicalStaff Table:

- StaffID (Primary Key, INT): Unique identifier for each non-medical staff.
- FirstName (VARCHAR(50)): First name of the non-medical staff.
- LastName (VARCHAR(50)): Last name of the non-medical staff.
- JobTitle (VARCHAR(255)): Job title of the non-medical staff.
- ContactInfo (VARCHAR(255)): Contact information for the non-medical staff.

OperatingRoom Table:

- RoomID (Primary Key, INT): Unique identifier for each operating room.
- RoomType (VARCHAR(50)): Type of the operating room.
- SurgeryID (Foreign Key, INT): Identifier of the surgery associated with the operating room.

Patient Table:

- PatientID (Primary Key, INT): Unique identifier for each patient.
- FirstName (VARCHAR(50)): First name of the patient.
- LastName (VARCHAR(50)): Last name of the patient.
- Address (VARCHAR(255)): Address of the patient.
- PhoneNumber (VARCHAR(20)): Phone number of the patient.
- MedicalCardNumber (VARCHAR(20)): Medical card number of the patient.
- InsuranceInfo (VARCHAR(255)): Insurance information of the patient.
- ClinicID (Foreign Key, INT): Identifier of the clinic associated with the patient.

Pharmacist Table:

- PharmacistID (Primary Key, INT): Unique identifier for each pharmacist.
- FirstName (VARCHAR(50)): First name of the pharmacist.
- LastName (VARCHAR(50)): Last name of the pharmacist.
- ContactInfo (VARCHAR(255)): Contact information for the pharmacist.

Prescription Table:

- PrescriptionID (Primary Key, INT): Unique identifier for each prescription.
- MedicationID (Foreign Key, INT): Identifier of the medication associated with the prescription.
- StaffID (Foreign Key, INT): Identifier of the staff member associated with the prescription.
- Dosage (VARCHAR(50)): Dosage information for the prescription.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the prescription.
- PharmacistID (Foreign Key, INT): Identifier of the pharmacist associated with the prescription.

Procedure Table:

- ProcedureID (Primary Key, INT): Unique identifier for each procedure.
- ProcedureName (VARCHAR(255)): Name of the procedure.
- Description (TEXT): Description of the procedure.
- Cost (DECIMAL(10, 2)): Cost of the procedure.
- SurgeryID (Foreign Key, INT): Identifier of the surgery associated with the procedure.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the procedure.
- StatementID (Foreign Key, INT): Identifier of the statement associated with the procedure.

RecoveryRoom Table:

- RoomID (Primary Key, INT): Unique identifier for each recovery room.
- RoomType (VARCHAR(50)): Type of the recovery room.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the recovery room.
- StatementID (Foreign Key, INT): Identifier of the statement associated with the recovery room.

Statement Table:

- StatementID (Primary Key, INT): Unique identifier for each statement.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the statement.
- BillingDate (DATE): Date of the billing.
- Services (TEXT): Services included in the statement.
- Payments (DECIMAL(10, 2)): Payments made on the statement.
- BalanceDue (DECIMAL(10, 2)): Balance due on the statement.
- PrescriptionID (Foreign Key, INT): Identifier of the prescription associated with the statement.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the statement.
- VisitID (Foreign Key, INT): Identifier of the visit associated with the statement.

Surgery Table:

- SurgeryID (Primary Key, INT): Unique identifier for each surgery.
- SurgeryType (VARCHAR(255)): Type of the surgery.
- Surgeon (Foreign Key, INT): Identifier of the surgeon associated with the surgery.
- SurgeryDate (DATE): Date of the surgery.
- Notes (TEXT): Additional notes for the surgery.
- RoomID (Foreign Key, INT): Identifier of the operating room associated with the surgery.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the surgery.
- ProcedureName (VARCHAR(255)): Name of the procedure associated with the surgery.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the surgery.

Visit Table:

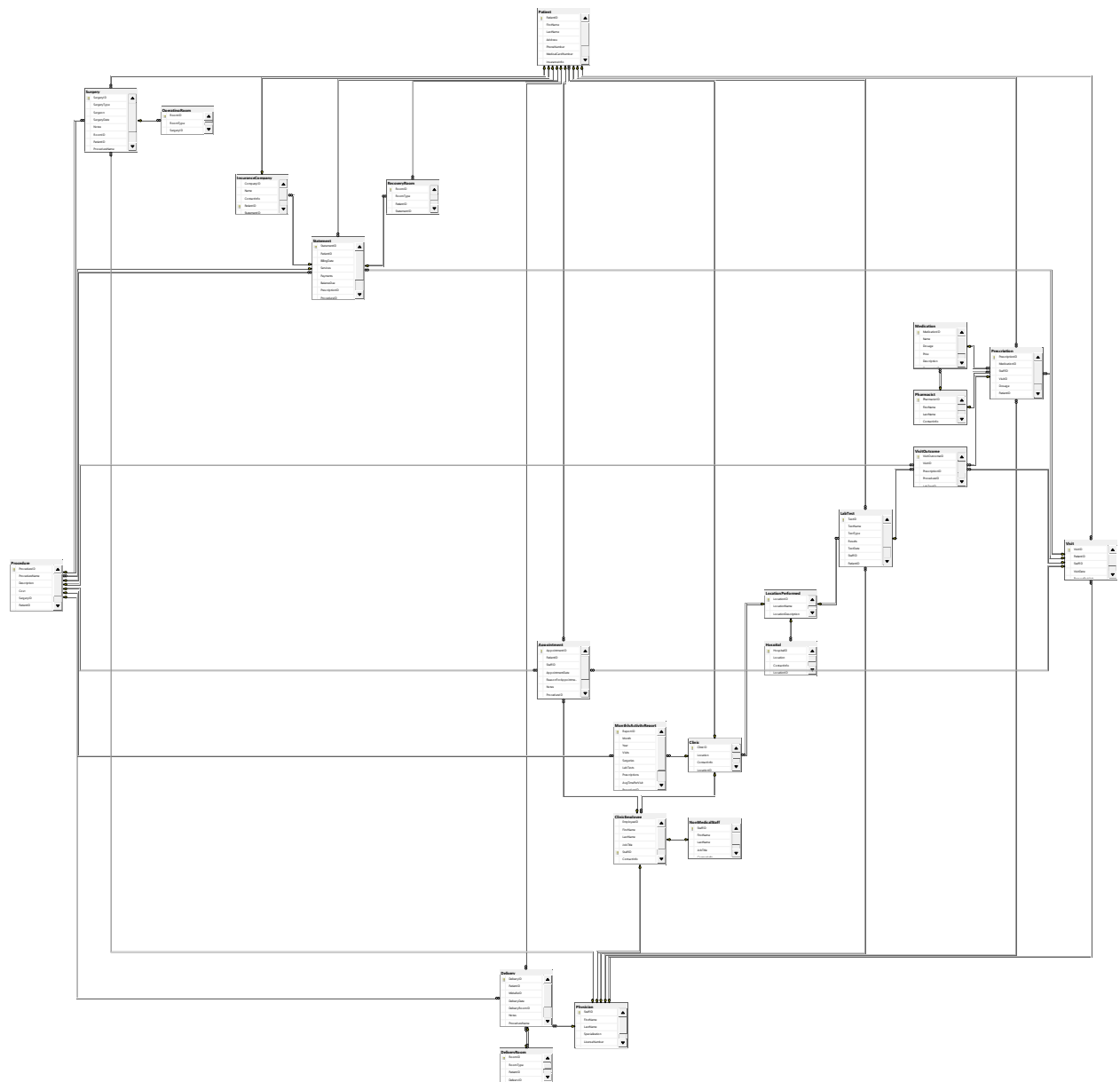
- VisitID (Primary Key, INT): Unique identifier for each visit.
- PatientID (Foreign Key, INT): Identifier of the patient associated with the visit.
- StaffID (Foreign Key, INT): Identifier of the staff member associated with the visit.
- VisitDate (DATE): Date of the visit.
- ReasonForVisit (TEXT): Reason for the visit.

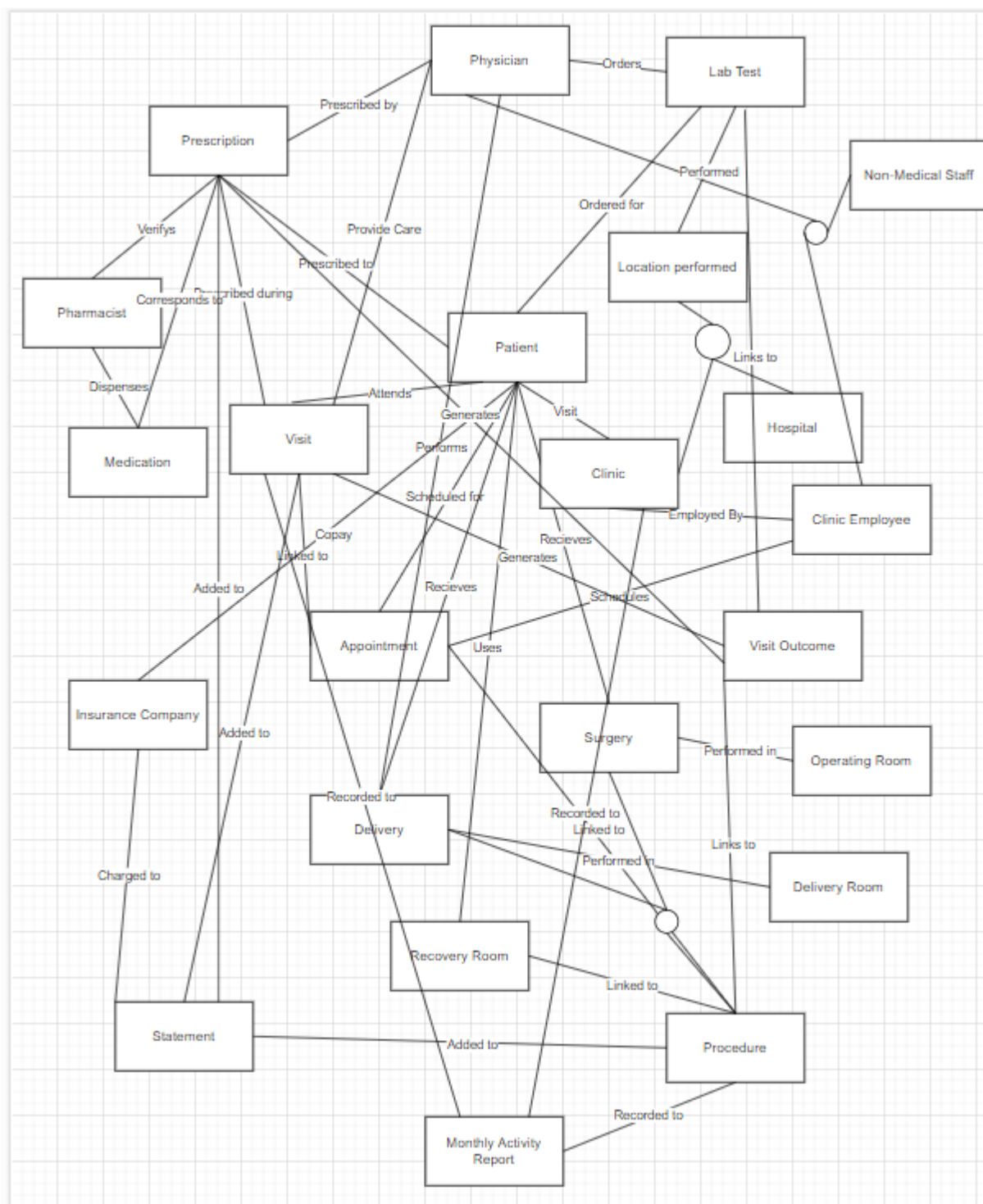
VisitOutcome Table:

- VisitOutcomeID (Primary Key, INT): Unique identifier for each visit outcome.
- VisitID (Foreign Key, INT): Identifier of the visit associated with the outcome.
- PrescriptionID (Foreign Key, INT): Identifier of the prescription associated with the outcome.
- ProcedureID (Foreign Key, INT): Identifier of the procedure associated with the outcome.
- LabTestID (Foreign Key, INT): Identifier of the lab test associated with the outcome.

ER Model & Attributes

- Appointment – AppointmentID, PatientID, StaffID, AppointmentDate, ReasonForAppointment, Notes, ProcedureID, VisitID
- Clinic – ClinicID, Location, ContactInfo, LocationID
- ClinicEmployee – EmployeeID, FirstName, LastName, JobTitle, StaffID, ContactInfo, ClinicID
- Delivery – DeliveryID, PatientID, MidwifeID, DeliveryDate, DeliveryRoomID, Notes, ProcedureName, ProcedureID
- DeliveryRoom – RoomID, RoomType, PatientID, DeliveryID
- Hospital – HospitalID, Location, ContactInfo, LocationID
- InsuranceCompany – CompanyID, Name, ContactInfo, PatientID, StatementID
- LabTest – TestID, TestName, TestType, Results, TestDate, StaffID, PatientID, LocationID
- LocationPerformed – LocationID, LocationName, LocationDescription
- MedicalStaff – StaffID, FirstName, LastName, Specialization, LicenseNumber, ContactInfo
- Medication – MedicationID, Name, Dosage, Price, Description, PharmacistID
- MonthlyActivityReport – ReportID, Month, Year, Visits, Surgeries, LabTests, Prescriptions, AvgTimePerVisit, ProcedureID, ClinicID
- NonMedicalStaff – StaffID, FirstName, LastName, JobTitle, ContactInfo
- OperatingRoom – RoomID, RoomType, SurgeryID
- Patient – PatientID, FirstName, LastName, Address, PhoneNumber, MedicalCardNumber, InsuranceInfo, ClinicID
- Pharmacist – PharmacistID, FirstName, LastName, ContactInfo
- Prescription – PrescriptionID, MedicationID, StaffID, Dosage, PatientID, PharmacistID
- Procedure – ProcedureID, ProcedureName, Description, Cost, SurgeryID, PatientID, StatementID
- RecoveryRoom – RoomID, RoomType, PatientID, StatementID
- Statement – StatementID, PatientID, BillingDate, Services, Payments, BalanceDue, PrescriptionID, ProcedureID, VisitID
- Surgery – SurgeryID, SurgeryType, Surgeon, SurgeryDate, Notes, RoomID, PatientID, ProcedureName, ProcedureID
- Visit – VisitID, PatientID, StaffID, VisitDate, ReasonForVisit
- VisitOutcome – VisitOutcomeID, VisitID, PrescriptionID, ProcedureID, LabTestID





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-- Create the Appointment table
CREATE TABLE Appointment (
  AppointmentID INT PRIMARY KEY,
  PatientID INT,
  StaffID INT,
  AppointmentDate DATETIME,
  ReasonForAppointment TEXT,
  Notes TEXT,
  ProcedureID INT,
  VisitID INT
);

-- Create the Clinic table
CREATE TABLE Clinic (
  ClinicID INT PRIMARY KEY,
  Location VARCHAR(255),
  ContactInfo VARCHAR(255),
  LocationID INT
);

-- Create the ClinicEmployee table
CREATE TABLE ClinicEmployee (
  EmployeeID INT,
  FirstName VARCHAR(50),
  LastName VARCHAR(50),
  JobTitle VARCHAR(255),
  StaffID INT PRIMARY KEY,
  ContactInfo VARCHAR(255),
  ClinicID INT
);

-- Create the Delivery (Birth) table
CREATE TABLE Delivery (
  DeliveryID INT PRIMARY KEY,
  PatientID INT,
  MidwifeID INT,
  DeliveryDate DATETIME,
  DeliveryRoomID INT,
  Notes TEXT,
  ProcedureName VARCHAR(255),
  ProcedureID INT
);

-- Create the DeliveryRoom table
CREATE TABLE DeliveryRoom (
  RoomID INT PRIMARY KEY,
  RoomType VARCHAR(50),
  PatientID INT,
  DeliveryID INT
);

-- Create the Hospital table
CREATE TABLE Hospital (
  HospitalID INT PRIMARY KEY,
  Location VARCHAR(255),
  ContactInfo VARCHAR(255),
  LocationID INT
);

-- Create the InsuranceCompany table
CREATE TABLE InsuranceCompany (
  CompanyID INT,
  Name VARCHAR(255),
  ContactInfo VARCHAR(255),
  PatientID INT PRIMARY KEY,
  StatementID INT
);

-- Create the LabTest table
CREATE TABLE LabTest (
  TestID INT PRIMARY KEY,
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    TestName VARCHAR(255),
    TestType VARCHAR(50),
    Results TEXT,
    TestDate DATE,
        StaffID INT,
        PatientID INT,
        LocationID INT
);

-- Create the LocationPerformed table
CREATE TABLE LocationPerformed (
    LocationID INT PRIMARY KEY,
    LocationName VARCHAR(255),
    LocationDescription TEXT
);

-- Create the Medication table
CREATE TABLE Medication (
    MedicationID INT PRIMARY KEY,
    Name VARCHAR(255),
    Dosage VARCHAR(50),
    Price DECIMAL(10, 2),
    Description TEXT,
    PharmacistID INT
);

-- Create the MonthlyActivityReport table
CREATE TABLE MonthlyActivityReport (
    ReportID INT PRIMARY KEY,
    Month INT,
    Year INT,
    Visits INT,
    Surgeries INT,
    LabTests INT,
    Prescriptions INT,
    AvgTimePerVisit DECIMAL(5, 2),
        ProcedureID INT,
        ClinicID INT
);

-- Create the NonMedicalStaff table
CREATE TABLE NonMedicalStaff (
    StaffID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    JobTitle VARCHAR(255),
    ContactInfo VARCHAR(255)
);

-- Create the OperatingRoom table
CREATE TABLE OperatingRoom (
    RoomID INT PRIMARY KEY,
    RoomType VARCHAR(50),
    SurgeryID INT
);

-- Create the Patient table
CREATE TABLE Patient (
    PatientID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Address VARCHAR(255),
    PhoneNumber VARCHAR(20),
    MedicalCardNumber VARCHAR(20),
    InsuranceInfo VARCHAR(255),
    ClinicID INT
);

-- Create the Pharmacist table
CREATE TABLE Pharmacist (
    PharmacistID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    ContactInfo VARCHAR(255)
);

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);

-- Create the Physician table
CREATE TABLE Physician (
    StaffID INT PRIMARY KEY,
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    Specialization VARCHAR(255),
    LicenseNumber VARCHAR(20),
    ContactInfo VARCHAR(255)
);

-- Create the Prescription table
CREATE TABLE Prescription (
    PrescriptionID INT PRIMARY KEY,
    MedicationID INT,
    StaffID INT,
    VisitID INT,
    Dosage VARCHAR(50),
    PatientID INT,
    PharmacistID INT
);

-- Create the Procedure table
CREATE TABLE [Procedure] (
    ProcedureID INT PRIMARY KEY,
    ProcedureName VARCHAR(255),
    Description TEXT,
    Cost DECIMAL(10, 2),
    SurgeryID INT,
    PatientID INT,
    StatementID INT
);

-- Create the RecoveryRoom table
CREATE TABLE RecoveryRoom (
    RoomID INT PRIMARY KEY,
    RoomType VARCHAR(50),
    PatientID INT,
    StatementID INT
);

-- Create the Statement table
CREATE TABLE Statement (
    StatementID INT PRIMARY KEY,
    PatientID INT,
    BillingDate DATE,
    Services TEXT,
    Payments DECIMAL(10, 2),
    BalanceDue DECIMAL(10, 2),
    PrescriptionID INT,
    ProcedureID INT,
    VisitID INT
);

-- Create the Surgery table
CREATE TABLE Surgery (
    SurgeryID INT PRIMARY KEY,
    SurgeryType VARCHAR(255),
    Surgeon INT,
    SurgeryDate DATE,
    Notes TEXT,
    RoomID INT,
    PatientID INT,
    ProcedureName VARCHAR(255),
    ProcedureID INT
);

-- Create the Visit table
CREATE TABLE Visit (
    VisitID INT PRIMARY KEY,
    PatientID INT,
    StaffID INT,
    VisitDate DATE,

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    ReasonForVisit TEXT
);

CREATE TABLE VisitOutcome (
    VisitOutcomeID INT PRIMARY KEY,
    VisitID INT,
    PrescriptionID INT,
    ProcedureID INT,
    LabTestID INT
);

-- Add foreign key constraints

ALTER TABLE Appointment
ADD CONSTRAINT FK_Patient_Appointment FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Appointment
ADD CONSTRAINT FK_Staff_Appointment FOREIGN KEY (StaffID) REFERENCES ClinicEmployee(StaffID);

ALTER TABLE Appointment
ADD CONSTRAINT FK_Procedure_Appointment FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

ALTER TABLE Appointment
ADD CONSTRAINT FK_Visit_Appointment FOREIGN KEY (VisitID) REFERENCES Visit(VisitID);

ALTER TABLE Clinic
ADD CONSTRAINT FK_Location_Clinic FOREIGN KEY (LocationID) REFERENCES LocationPerformed(LocationID);

ALTER TABLE ClinicEmployee
ADD CONSTRAINT FK_Clinic_ClinicEmployee FOREIGN KEY (ClinicID) REFERENCES Clinic(ClinicID);

ALTER TABLE Delivery
ADD CONSTRAINT FK_Patient_Delivery FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Delivery
ADD CONSTRAINT FK_Midwife_Delivery FOREIGN KEY (MidwifeID) REFERENCES Physician(StaffID);

ALTER TABLE Delivery
ADD CONSTRAINT FK_DeliveryRoom_Delivery FOREIGN KEY (DeliveryRoomID) REFERENCES DeliveryRoom(RoomID);

ALTER TABLE Delivery
ADD CONSTRAINT FK_Procedure_Delivery FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

ALTER TABLE DeliveryRoom
ADD CONSTRAINT FK_Patient_DeliveryRoom FOREIGN KEY (DeliveryID) REFERENCES Delivery(DeliveryID);

ALTER TABLE Hospital
ADD CONSTRAINT FK_Location_Hospital FOREIGN KEY (LocationID) REFERENCES LocationPerformed(LocationID);

ALTER TABLE InsuranceCompany
ADD CONSTRAINT FK_Patient_InsuranceCompany FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE InsuranceCompany
ADD CONSTRAINT FK_Statement_InsuranceCompany FOREIGN KEY (StatementID) REFERENCES Statement(StatementID);

ALTER TABLE LabTest
ADD CONSTRAINT FK_Staff_LabTest FOREIGN KEY (StaffID) REFERENCES Physician(StaffID);

ALTER TABLE LabTest
ADD CONSTRAINT FK_Patient_LabTest FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE LabTest
ADD CONSTRAINT FK_Location_LabTest FOREIGN KEY (LocationID) REFERENCES LocationPerformed(LocationID);

ALTER TABLE Physician
ADD CONSTRAINT FK_ClinicEmployee_Physician FOREIGN KEY (StaffID) REFERENCES ClinicEmployee(StaffID);

ALTER TABLE Medication
ADD CONSTRAINT FK_Pharmacist_Medication FOREIGN KEY (PharmacistID) REFERENCES Pharmacist(PharmacistID);

ALTER TABLE MonthlyActivityReport
ADD CONSTRAINT FK_Procedure_MonthlyActivityReport FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

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ALTER TABLE MonthlyActivityReport
ADD CONSTRAINT FK_Clinic_MonthlyActivityReport FOREIGN KEY (ClinicID) REFERENCES Clinic(ClinicID);

ALTER TABLE NonMedicalStaff
ADD CONSTRAINT FK_ClinicEmployee_NonMedicalStaff FOREIGN KEY (StaffID) REFERENCES ClinicEmployee(StaffID);

ALTER TABLE OperatingRoom
ADD CONSTRAINT FK_RoomID_OperatingRoom FOREIGN KEY (SurgeryID) REFERENCES Surgery(SurgeryID);

ALTER TABLE Patient
ADD CONSTRAINT FK_Clinic_Patient FOREIGN KEY (ClinicID) REFERENCES Clinic(ClinicID);

ALTER TABLE Prescription
ADD CONSTRAINT FK_Medication_Prescription FOREIGN KEY (MedicationID) REFERENCES Medication(MedicationID);

ALTER TABLE Prescription
ADD CONSTRAINT FK_Staff_Prescription FOREIGN KEY (StaffID) REFERENCES Physician(StaffID);

ALTER TABLE Prescription
ADD CONSTRAINT FK_Visit_Prescription FOREIGN KEY (VisitID) REFERENCES Visit(VisitID);

ALTER TABLE Prescription
ADD CONSTRAINT FK_Patient_Prescription FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Prescription
ADD CONSTRAINT FK_Pharmacist_Prescription FOREIGN KEY (PharmacistID) REFERENCES Pharmacist(PharmacistID);

ALTER TABLE [Procedure]
ADD CONSTRAINT FK_Statement_Procedure FOREIGN KEY (StatementID) REFERENCES Statement(StatementID);

ALTER TABLE RecoveryRoom
ADD CONSTRAINT FK_Patient_RecoveryRoom FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE RecoveryRoom
ADD CONSTRAINT FK_Patient_Statement_RecoveryRoom FOREIGN KEY (StatementID) REFERENCES Statement(StatementID);

ALTER TABLE Statement
ADD CONSTRAINT FK_Patient_Statement FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Statement
ADD CONSTRAINT FK_Procedure_Statement FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

ALTER TABLE Statement
ADD CONSTRAINT FK_Visit_Statement FOREIGN KEY (VisitID) REFERENCES Visit(VisitID);

ALTER TABLE Surgery
ADD CONSTRAINT FK_Surgeon_Surgery FOREIGN KEY (Surgeon) REFERENCES Physician(StaffID);

ALTER TABLE Surgery
ADD CONSTRAINT FK_Patient_Surgery FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Surgery
ADD CONSTRAINT FK_Procedure_Surgery FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

ALTER TABLE Visit
ADD CONSTRAINT FK_Patient_Visit FOREIGN KEY (PatientID) REFERENCES Patient(PatientID);

ALTER TABLE Visit
ADD CONSTRAINT FK_Staff_Visit FOREIGN KEY (StaffID) REFERENCES Physician(StaffID);

ALTER TABLE VisitOutcome
ADD CONSTRAINT FK_VisitOutcome_Visit FOREIGN KEY (VisitID) REFERENCES Visit(VisitID);

ALTER TABLE VisitOutcome
ADD CONSTRAINT FK_VisitOutcome_Prescription FOREIGN KEY (PrescriptionID) REFERENCES Prescription(PrescriptionID);

ALTER TABLE VisitOutcome
ADD CONSTRAINT FK_VisitOutcome_Procedure FOREIGN KEY (ProcedureID) REFERENCES [Procedure](ProcedureID);

ALTER TABLE VisitOutcome
ADD CONSTRAINT FK_VisitOutcome_LabTest FOREIGN KEY (LabTestID) REFERENCES LabTest(TestID);

ALTER TABLE Appointment

```

```
DROP COLUMN VisitID;
```

```
ALTER TABLE Prescription  
DROP COLUMN VisitID;
```

```
/*
```

```
-- Drop all tables  
DROP TABLE IF EXISTS Appointment;  
DROP TABLE IF EXISTS Clinic;  
DROP TABLE IF EXISTS ClinicEmployee;  
DROP TABLE IF EXISTS Delivery;  
DROP TABLE IF EXISTS DeliveryRoom;  
DROP TABLE IF EXISTS Hospital;  
DROP TABLE IF EXISTS InsuranceCompany;  
DROP TABLE IF EXISTS LabTest;  
DROP TABLE IF EXISTS LocationPerformed;  
DROP TABLE IF EXISTS Physician;  
DROP TABLE IF EXISTS MedicalStaff;  
DROP TABLE IF EXISTS Medication;  
DROP TABLE IF EXISTS MonthlyActivityReport;  
DROP TABLE IF EXISTS NonMedicalStaff;  
DROP TABLE IF EXISTS OperatingRoom;  
DROP TABLE IF EXISTS Patient;  
DROP TABLE IF EXISTS Pharmacist;  
DROP TABLE IF EXISTS Prescription;  
DROP TABLE IF EXISTS [Procedure];  
DROP TABLE IF EXISTS RecoveryRoom;  
DROP TABLE IF EXISTS Statement;  
DROP TABLE IF EXISTS Surgery;  
DROP TABLE IF EXISTS Visit;  
DROP TABLE IF EXISTS VisitOutcome;
```

```
*/
```

```
/*
```

```
DECLARE @sql NVARCHAR(MAX)  
SET @sql = N''
```

```
SELECT @sql = @sql + N'ALTER TABLE ' + QUOTENAME(OBJECT_SCHEMA_NAME(f.parent_object_id)) + N' ' +  
QUOTENAME(OBJECT_NAME(f.parent_object_id)) + N' DROP CONSTRAINT ' + QUOTENAME(f.name) + ';
```

```
FROM sys.foreign_keys AS f
```

```
-- Print the SQL statements for verification  
PRINT @sql
```

```
EXEC sp_executesql @sql
```

```
*/
```