CREATE DATABASE DENTISTRY;

CREATE TABLE People (

FirstName VARCHAR(20) NOT NULL,

LastName VARCHAR(20) NOT NULL,

ID INT NOT NULL,

PhoneNumber INT NOT NULL,

EmergencyContactNumber INT NOT NULL,

EmergencyContactRelationship VARCHAR(15) NOT NULL,

PRIMARY KEY (ID)

);

CREATE TABLE Address (

ID INT NOT NULL,

ZipCode INT NOT NULL,

State VARCHAR(20) NOT NULL,

City VARCHAR(20) NOT NULL,

Street VARCHAR(20) NOT NULL,

FOREIGN KEY (ID) REFERENCES People(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE DemographicInfo (

ID INT NOT NULL,

Employment TINYINT NOT NULL,

DateOfBirth DATE NOT NULL,

Income INT NOT NULL,

Ethnicity VARCHAR(20) NOT NULL,

Gender VARCHAR(10),

FOREIGN KEY (ID) REFERENCES People(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Patients (

ID INT NOT NULL,

FOREIGN KEY (ID) REFERENCES People(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Employees (

ID INT NOT NULL,

FOREIGN KEY (ID) REFERENCES People(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE MedicalHistory (

PatientID INT NOT NULL,

SignedHIPPAForm tinyint NOT NULL,

DateOfInformation DATE NOT NULL,

DateOfLastXRay DATE,

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Allergies (

PatientID INT NOT NULL,

AllergyID INT NOT NULL,

Symptoms VARCHAR(50),

AllergyType VARCHAR(20),

PRIMARY KEY (AllergyID),

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Medications (

MedicationName VARCHAR(20) NOT NULL,

MedicationID VARCHAR(20) NOT NULL,

PatientID INT NOT NULL,

Dose INT,

PrescribeDate Date,

Distributor VARCHAR(20),

PRIMARY KEY(MedicationID),

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Insurance (

PatientID INT NOT NULL,

PolicyID INT NOT NULL,

InsuranceCompany VARCHAR(30) NOT NULL,

PolicyTypes VARCHAR(7) NOT NULL,

StandardDentalProcedure INT NOT NULL,

StandardPerUnitCharges INT NOT NULL,

InsurancePhoneNumber INT NOT NULL,

PRIMARY KEY (PolicyID),

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE CompletedProcedures (

EmployeeID INT NOT NULL,

ProcedureCompleted VARCHAR(50) NOT NULL,

Qualifications VARCHAR(100) NOT NULL,

DateOfCompletion DATE NOT NULL,

ProcedureCompletionAmount INT NOT NULL,

FOREIGN KEY (EmployeeID) REFERENCES Employees(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE PatientPayments (

PolicyID INT NOT NULL,

InvoiceID INT NOT NULL,

PaymentID INT NOT NULL,

PaymentHistory VARCHAR(200) NOT NULL,

PaymentDate DATE NOT NULL,

PatientPaymentAmount INT NOT NULL,

PaymentType VARCHAR(10) NOT NULL,

FOREIGN KEY (InvoiceID) REFERENCES Invoice(InvoiceID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (PolicyID) REFERENCES Insurance(PolicyID) ON DELETE CASCADE ON UPDATE CASCADE,

PRIMARY KEY(PaymentID)

);

CREATE TABLE Money\_Check (

PaymentID INT NOT NULL,

CheckDate DATE NOT NULL,

AccountNumber INT NOT NULL,

RoutingNumber INT NOT NULL,

FOREIGN KEY (PaymentID) REFERENCES PatientPayments(PaymentID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Card (

PaymentID INT NOT NULL,

IssuingCompany VARCHAR(30) NOT NULL,

CardNumber INT NOT NULL,

CardName VARCHAR(20) NOT NULL,

CVVNumber VARCHAR(4) NOT NULL,

ExpirationDate DATE NOT NULL,

FOREIGN KEY (PaymentID) REFERENCES PatientPayments(PaymentID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Invoice(

InvoiceID INT NOT NULL,

InvoicedAmount INT NOT NULL,

InvoiceDate DATE NOT NULL,

ProcedurePerformed VARCHAR (25) NOT NULL,

DaysPastDue INT,

PRIMARY KEY (InvoiceID)

);

CREATE TABLE Appointments(

PatientID INT NOT NULL,

AppointmentID INT NOT NULL,

CancelledAppointment tinyint NOT NULL,

AppointmentDate DATE NOT NULL,

AppointmentStartTime TIME NOT NULL,

AppointmentEndTime TIME ,

ProcedureDoctor VARCHAR(20) NOT NULL,

PRIMARY KEY (AppointmentID),

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE CoversInsurance (

PolicyID INT NOT NULL,

AcceptedInsurance tinyint NOT NULL,

AmountCovered INT NOT NULL,

FOREIGN KEY (PolicyID) REFERENCES Insurance(PolicyID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Schedule (

PatientID INT NOT NULL,

AppointmentID INT NOT NULL,

Waitlist tinyint NOT NULL,

FOREIGN KEY (AppointmentID) REFERENCES APPOINTMENT (AppointmentID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (PatientID) REFERENCES Patients(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Treatments (

TreatmentID INT NOT NULL,

AppointmentID INT NOT NULL,

EquipmentID INT NOT NULL,

TreatmentType VARCHAR(50),

TreatmentAmount INT NOT NULL,

PRIMARY KEY(TreatmentID),

FOREIGN KEY (AppointmentID) REFERENCES Appointment(AppointmentID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (EquipmentID) REFERENCES MedicalEquipment(AppointmentID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Medical(

EmployeeID INT NOT NULL,

LicenseID INT NOT NULL,

MedicalType VARCHAR(25),

FOREIGN KEY (EmployeeID) REFERENCES EMPLOYEES(ID) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (LicenseID) REFERENCES MedicalLicense(LicenseID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE NonMedical (

EmployeeID INT NOT NULL,

Occupation VARCHAR(20) NOT NULL,

FOREIGN KEY (EmployeeID) REFERENCES EMPLOYEES (ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE MedicalLicense (

LicenseID INT NOT NULL,

LicenseType VARCHAR(20) NOT NULL,

ExpirationDate DATE NOT NULL,

Primary KEY (LicenseID)

);

CREATE TABLE MedicalEquipment (

EquipmentID INT NOT NULL,

SupplierName VARCHAR(30) NOT NULL,

DentalMirror tinyint NOT NULL,

PowerTool tinyint NOT NULL,

DentalProbe tinyint NOT NULL,

ToolFile tinyint NOT NULL,

Forcept tinyint NOT NULL,

Scaler tinyint NOT NULL,

XRayMachine tinyint NOT NULL,

PRIMARY KEY (EquipmentID),

FOREIGN KEY (SupplierName) REFERENCES Suppliers(SupplierName) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Suppliers (

SupplierName VARCHAR(30) NOT NULL,

SupplierAddress VARCHAR (20) NOT NULL,

SupplierPhoneNumber INT NOT NULL,

PRIMARY KEY (SupplierName)

);