CREATE SCHEMA DBMSCLINIC;

create schema ClinicManagement;

create table "Patient"(

"PID" SERIAL PRIMARY KEY NOT NULL,

"PhoneNumber" VARCHAR(10) CONSTRAINT check\_phone\_length CHECK (LENGTH("PhoneNumber")=10),

"Address" TEXT NOT NULL,

"Name" VARCHAR(30) NOT NULL,

"BloodGroup" VARCHAR(5) NOT NULL,

"Age" SMALLINT NOT NULL,

"Email" VARCHAR(30) NOT NULL

);

CREATE TABLE "MedicalHistory"(

"MhID" SERIAL PRIMARY KEY NOT NULL,

"MedConditions" TEXT NOT NULL,

"Allergies" TEXT NOT NULL,

"PID" SERIAL NOT NULL,

FOREIGN KEY ("PID") REFERENCES "Patient"("PID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "Staff"(

"StaffID" SERIAL PRIMARY KEY NOT NULL,

"Name" VARCHAR(30) NOT NULL,

"Salary" REAL NOT NULL,

"Address" TEXT NOT NULL,

"Type" VARCHAR(20) NOT NULL,

"PhoneNumber" VARCHAR(10) CONSTRAINT check\_phone\_length CHECK (LENGTH("PhoneNumber")=10),

"LastPaymentDate" DATE NOT NULL

);

CREATE TABLE "ClinicStaff"(

"StaffID" SERIAL PRIMARY KEY NOT NULL,

"Role" VARCHAR(20) NOT NULL,

FOREIGN KEY ("StaffID") REFERENCES "Staff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "CleaningStaff"(

"StaffID" SERIAL PRIMARY KEY NOT NULL,

FOREIGN KEY ("StaffID") REFERENCES "Staff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "PharmacyStaff"(

"StaffID" SERIAL PRIMARY KEY NOT NULL,

"Shift" VARCHAR(10) NOT NULL,

FOREIGN KEY ("StaffID") REFERENCES "Staff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "Appointment"(

"AppID" SERIAL PRIMARY KEY NOT NULL,

"Time" TIME NOT NULL,

"Date" DATE NOT NULL,

"Status" VARCHAR(20) NOT NULL,

"PID" SERIAL NOT NULL,

"StaffID" SERIAL NOT NULL,

FOREIGN KEY ("PID") REFERENCES "Patient"("PID")

ON UPDATE CASCADE ON DELETE SET NULL,

FOREIGN KEY ("StaffID") REFERENCES "ClinicStaff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "Report"(

"RepID" SERIAL PRIMARY KEY NOT NULL,

"DateOfVisit" DATE NOT NULL,

"Diagnosis" TEXT NOT NULL,

"Symptoms" TEXT NOT NULL,

"PID" SERIAL NOT NULL,

"ConsultancyCharges" REAL NOT NULL,

FOREIGN KEY ("PID") REFERENCES "Patient"("PID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "MedicineDetails"(

"MedID" SERIAL PRIMARY KEY NOT NULL,

"MedName" VARCHAR(25) UNIQUE NOT NULL,

"Rate" REAL NOT NULL,

"StaffID" SERIAL NOT NULL,

FOREIGN KEY ("StaffID") REFERENCES "PharmacyStaff"("StaffID")

);

CREATE TABLE "Prescription"(

"PresID" SERIAL PRIMARY KEY NOT NULL,

"MedName" VARCHAR(30) NOT NULL,

"MorningDosage" SMALLINT NOT NULL,

"AfternoonDosage" SMALLINT NOT NULL,

"EveningDosage" SMALLINT NOT NULL,

"Quantity" SMALLINT NOT NULL,

"Instructions" TEXT NOT NULL,

"RepID" SERIAL NOT NULL,

FOREIGN KEY ("RepID") REFERENCES "Report"("RepID")

ON UPDATE CASCADE ON DELETE SET NULL,

FOREIGN KEY ("MedName") REFERENCES "MedicineDetails"("MedName")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "Inventory"(

"MedID" SERIAL UNIQUE NOT NULL,

"BatchNumber" VARCHAR(10) NOT NULL,

"QtyAvailable" INTEGER NOT NULL,

"QtyOrdered" INTEGER NOT NULL,

"CostPrice" REAL NOT NULL,

"MgfDate" DATE NOT NULL,

"ExpDate" DATE NOT NULL,

"StaffID" SERIAL NOT NULL,

PRIMARY KEY ("MedID", "BatchNumber"),

FOREIGN KEY ("MedID") REFERENCES "MedicineDetails"("MedID")

ON UPDATE CASCADE ON DELETE SET NULL,

FOREIGN KEY ("StaffID") REFERENCES "PharmacyStaff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

CREATE TABLE "Invoice"(

"InvNo" SERIAL PRIMARY KEY NOT NULL,

"InvDate" DATE NOT NULL,

"TotalAmount" REAL NOT NULL,

"RepID" SERIAL NOT NULL,

"StaffID" SERIAL NOT NULL,

FOREIGN KEY ("RepID") REFERENCES "Report"("RepID")

ON UPDATE CASCADE ON DELETE SET NULL,

FOREIGN KEY ("StaffID") REFERENCES "PharmacyStaff"("StaffID")

ON UPDATE CASCADE ON DELETE SET NULL

);

Queries: