use Hospital\_management;

CREATE TABLE Physician (

EmployeeID INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Position TEXT NOT NULL,

SSN INTEGER NOT NULL

);

CREATE TABLE Department (

DepartmentID INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Head INTEGER NOT NULL,

EmployeeID INTEGER,

FOREIGN KEY (EmployeeID) REFERENCES Physician(EmployeeID)

);

CREATE TABLE Affiliated\_With (

Physician INTEGER NOT NULL,

EmployeeID Integer,

DepartmentID Integer,

Foreign key (EmployeeID) REFERENCES Physician(EmployeeID),

Department INTEGER NOT NULL,

Foreign key (DepartmentID) REFERENCES Department(DepartmentID),

PrimaryAffiliation BOOLEAN NOT NULL,

PRIMARY KEY(Physician, Department)

);

CREATE TABLE Procedure1 (

Code INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Cost REAL NOT NULL

);

CREATE TABLE Trained\_In (

Physician INTEGER NOT NULL,

EmployeeID Integer,

code Integer,

Foreign key (EmployeeID) REFERENCES Physician(EmployeeID),

Treatment INTEGER NOT NULL,

Foreign key (code) REFERENCES Procedure1(Code),

CertificationDate DATETIME NOT NULL,

CertificationExpires DATETIME NOT NULL,

PRIMARY KEY(Physician, Treatment)

);

CREATE TABLE Patient (

SSN INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Address TEXT NOT NULL,

Phone TEXT NOT NULL,

InsuranceID INTEGER NOT NULL,

PCP INTEGER NOT NULL,

EmployeeID Integer,

Foreign key (EmployeeID) REFERENCES Physician(EmployeeID)

);

CREATE TABLE Nurse (

EmployeeID INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Position TEXT NOT NULL,

Registered BOOLEAN NOT NULL,

SSN INTEGER NOT NULL

);

CREATE TABLE Appointment (

AppointmentID INTEGER PRIMARY KEY NOT NULL,

Patient INTEGER NOT NULL,

SSN INteger,

EmployeeID Integer,

Foreign key (SSN) REFERENCES Patient(SSN),

PrepNurse INTEGER,

Foreign key (EmployeeID) REFERENCES Nurse(EmployeeID),

Physician INTEGER NOT NULL,

Foreign key (EmployeeID) REFERENCES Physician(EmployeeID),

Start DATETIME NOT NULL,

End DATETIME NOT NULL,

ExaminationRoom TEXT NOT NULL

);

CREATE TABLE Medication (

Code INTEGER PRIMARY KEY NOT NULL,

Name TEXT NOT NULL,

Brand TEXT NOT NULL,

Description TEXT NOT NULL

);

CREATE TABLE Prescribes (

Physician INTEGER NOT NULL,

EmployeeID integer,

SSN Integer,

Foreign key (EmployeeID) REFERENCES Physician(EmployeeID),

Patient INTEGER NOT NULL,

Foreign key (SSN) REFERENCES Patient(SSN),

Medication INTEGER NOT NULL,

code Integer,

foreign key (code) REFERENCES Medication(Code),

Date DATETIME NOT NULL,

Appointment INTEGER,

AppointmentID integer,

foreign key (AppointmentID) REFERENCES Appointment(AppointmentID),

Dose TEXT NOT NULL,

PRIMARY KEY(Physician, Patient, Medication, Date)

);

CREATE TABLE Block (

Floor INTEGER NOT NULL,

Code INTEGER NOT NULL,

PRIMARY KEY(Floor, Code)

);

CREATE TABLE Room (

Number INTEGER PRIMARY KEY NOT NULL,

Type TEXT NOT NULL,

floor INTEGER NOT NULL,

code INTEGER NOT NULL,

Unavailable BOOLEAN NOT NULL,

FOREIGN KEY(floor, code) REFERENCES Block(Floor, Code)

);

CREATE TABLE On\_Call (

Nurse INTEGER NOT NULL,

employeeID integer,

foreign key (EmployeeID) REFERENCES Nurse(EmployeeID),

BlockFloor INTEGER NOT NULL,

BlockCode INTEGER NOT NULL,

Start DATETIME NOT NULL,

End DATETIME NOT NULL,

PRIMARY KEY(Nurse, BlockFloor, BlockCode, Start, End),

FOREIGN KEY(BlockFloor, BlockCode) REFERENCES Block(Floor, Code)

);

CREATE TABLE Stay (

StayID INTEGER PRIMARY KEY NOT NULL,

Patient INTEGER NOT NULL,

ssn integer,

foreign key (ssn) REFERENCES Patient(SSN),

Room INTEGER NOT NULL,

Number integer,

foreign key (Number) REFERENCES Room(Number),

Start DATETIME NOT NULL,

End DATETIME NOT NULL

);

CREATE TABLE Undergoes (

Patient INTEGER NOT NULL,

ssn integer,

foreign key (ssn) REFERENCES Patient(SSN),

Procedure1 INTEGER NOT NULL,

code integer,

foreign key (code) REFERENCES Procedure1(Code),

Stay INTEGER NOT NULL,

StayID integer,

foreign key (StayID) REFERENCES Stay(StayID),

Date DATETIME NOT NULL,

Physician INTEGER NOT NULL,

EmployeeID integer,

foreign key (EmployeeID) REFERENCES Physician(EmployeeID),

AssistingNurse INTEGER,

foreign key (EmployeeID) REFERENCES Nurse(EmployeeID),

PRIMARY KEY(Patient, Procedure1, Stay, Date)

);

commit;