**Ben Waddell**

**CPSC 5130 – Checkpoint 2**

CREATE TABLE Patients (

PatientID INT PRIMARY KEY,

FirstName VARCHAR(100) NOT NULL,

LastName VARCHAR(100) NOT NULL,

EmergencyContact VARCHAR(255) NOT NULL,

Insurance VARCHAR(255) NOT NULL

);

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY,

FirstName VARCHAR(100) NOT NULL,

LastName VARCHAR(100) NOT NULL,

Role VARCHAR(20)

);

CREATE TABLE Rooms (

RoomNumber INT PRIMARY KEY

);

CREATE TABLE Treatments (

TreatmentID INT PRIMARY KEY,

TreatmentName VARCHAR(50) NOT NULL,

TreatmentType VARCHAR(50),

OrderedTime DATETIME,

AdministeredTime DATETIME,

OrderedBy INT,

AdministeredBy INT,

FOREIGN KEY (OrderedBy) REFERENCES Employees(EmployeeID),

FOREIGN KEY (AdministeredBy) REFERENCES Employees(EmployeeID)

);

CREATE TABLE Diagnoses (

DiagnosisID INT PRIMARY KEY,

DiagnosisName VARCHAR(100) NOT NULL

);

CREATE TABLE Admissions (

AdmissionID INT PRIMARY KEY,

AdmissionDate DATE,

DischargeDate DATE,

PatientID INT,

PrimaryDoctorID INT,

TreatmentID INT,

DiagnosisID INT,

RoomNumber INT,

FOREIGN KEY (PatientID) REFERENCES Patients(PatientID),

FOREIGN KEY (PrimaryDoctorID) REFERENCES Employees(EmployeeID),

FOREIGN KEY (TreatmentID) REFERENCES Treatments(TreatmentID),

FOREIGN KEY (DiagnosisID) REFERENCES Diagnoses(DiagnosisID),

FOREIGN KEY (RoomNumber) REFERENCES Rooms(RoomNumber)

);

INSERT INTO Patients (PatientID, FirstName, LastName, EmergencyContact, Insurance)

VALUES

(1, 'Liam', 'Bennett', '555-1234', 'Blue Cross Health'),

(2, 'Chloe', 'Anderson', '555-5678', 'United Healthcare'),

(3, 'Ethan', 'Mitchell', '555-8765', 'Cigna Insurance'),

(4, 'Sophia', 'Parker', '555-4321', 'Aetna Health'),

(5, 'Mason', 'Cooper', '555-6789', 'Kaiser Permanente');

INSERT INTO Employees (EmployeeID, FirstName, LastName, Role)

VALUES

(101, 'Ryan', 'Walker', 'Doctor'),

(102, 'Ella', 'Harris', 'Nurse'),

(103, 'Jackson', 'Scott', 'Technician'),

(104, 'Grace', 'Peterson', 'Staff'),

(105, 'Henry', 'Baker', 'Doctor'),

(106, 'Lily', 'Reed', 'Administrator');

INSERT INTO Rooms (RoomNumber)

VALUES

(1), (2), (3), (4), (5), (6), (7), (8), (9), (10),

(11), (12), (13), (14), (15), (16), (17), (18), (19), (20);

INSERT INTO Treatments (TreatmentID, TreatmentName, TreatmentType, OrderedTime, AdministeredTime, OrderedBy, AdministeredBy)

VALUES

(201, 'Antibiotic', 'Medication', '2024-11-01 08:00:00', '2024-11-01 08:30:00', 101, 102),

(202, 'Physical Therapy', 'Procedure', '2024-11-02 09:00:00', '2024-11-02 10:00:00', 105, 104),

(203, 'Flu Vaccine', 'Medication', '2024-11-03 10:00:00', '2024-11-03 10:15:00', 105, 102),

(204, 'Surgery', 'Procedure', '2024-11-04 11:00:00', '2024-11-04 13:00:00', 101, 105),

(205, 'Ibuprofen', 'Medication', '2024-11-05 12:00:00', '2024-11-05 12:15:00', 101, 102),

(206, 'Anesthetic', 'Medication', '2024-11-05 12:00:00', '2024-11-05 12:15:00', 101, 102);

INSERT INTO Diagnoses (DiagnosisID, DiagnosisName)

VALUES

(301, 'Common Cold'),

(302, 'ACL Tear'),

(303, 'Influenza'),

(304, 'Inflammation');

INSERT INTO Admissions (AdmissionID, AdmissionDate, DischargeDate, PatientID, PrimaryDoctorID, TreatmentID, DiagnosisID, RoomNumber)

VALUES

(401, '2024-11-01', '2024-11-01', 2, 101, 201, 301, 1),

(402, '2024-11-02', '2024-11-03', 1, 101, 206, 302, 4),

(403, '2024-11-02', '2024-11-03', 1, 101, 204, 302, 4),

(404, '2024-11-03', '2024-11-03', 3, 105, 203, 303, 8),

(405, '2024-11-04', '2024-11-04', 4, 105, 205, 304, 10),

(406, '2024-11-05', '2024-11-10', 1, 101, 202, 302, 5),

(407, '2024-11-12', NULL, 1, 101, 202, 302, 5);