-- CREATE DATABASE week\_8;

USE week\_8;

-- CREATE TABLE HealthcareFacility (

-- FacilityID INT PRIMARY KEY,

-- Name VARCHAR(255),

-- Type VARCHAR(50),

-- Capacity INT

-- );

-- CREATE TABLE Patient (

-- PatientID INT PRIMARY KEY,

-- Name VARCHAR(255),

-- Age INT,

-- Address VARCHAR(255),

-- Rural BOOLEAN

-- );

-- CREATE TABLE Appointment (

-- AppointmentID INT PRIMARY KEY,

-- PatientID INT,

-- FacilityID INT,

-- Date DATE,

-- Reason VARCHAR(255),

-- FOREIGN KEY (PatientID) REFERENCES Patient(PatientID),

-- FOREIGN KEY (FacilityID) REFERENCES HealthcareFacility(FacilityID)

-- );

-- CREATE TABLE Staff (

-- StaffID INT PRIMARY KEY,

-- Name VARCHAR(255),

-- Position VARCHAR(50),

-- FacilityID INT,

-- FOREIGN KEY (FacilityID) REFERENCES HealthcareFacility(FacilityID)

-- );

-- INSERT INTO HealthcareFacility (FacilityID, Name, Type, Capacity) VALUES

-- (1, 'City Hospital', 'Hospital', 200),

-- (2, 'Rural Clinic', 'Clinic', 50),

-- (3, 'Community Health Center', 'Health Center', 100),

-- (4, 'Downtown Urgent Care', 'Urgent Care', 30),

-- (5, 'Eastside Family Practice', 'Family Practice', 75),

-- (6, 'Westside Specialty Clinic', 'Specialty', 40),

-- (7, 'Central Lab Services', 'Laboratory', 20),

-- (8, 'Suburban Pediatric Care', 'Pediatric', 60),

-- (9, 'Countryside Rehabilitation', 'Rehabilitation', 90),

-- (10, 'City Dental Clinic', 'Dental', 25);

INSERT INTO Patient (PatientID, Name, Age, Address, Rural) VALUES

(1, 'Alice Smith', 30, '123 Elm St', FALSE),

(2, 'Bob Johnson', 45, '456 Oak St', TRUE),

(3, 'Carol Lee', 25, '789 Pine St', FALSE),

(4, 'David Brown', 60, '321 Maple St', TRUE),

(5, 'Eva White', 22, '654 Birch St', FALSE),

(6, 'Frank Black', 40, '987 Cedar St', FALSE),

(7, 'Grace Green', 35, '123 Walnut St', TRUE),

(8, 'Henry Adams', 50, '456 Cherry St', FALSE),

(9, 'Isla Martin', 29, '789 Spruce St', TRUE),

(10, 'Jack Thompson', 33, '159 Pine St', FALSE);

INSERT INTO Appointment (AppointmentID, PatientID, FacilityID, Date, Reason) VALUES

(1, 1, 1, '2024-09-15', 'Routine Checkup'),

(2, 2, 2, '2024-09-16', 'Flu Shot'),

(3, 3, 3, '2024-09-17', 'Consultation'),

(4, 4, 1, '2024-09-18', 'Blood Test'),

(5, 5, 2, '2024-09-19', 'Dental Checkup'),

(6, 6, 3, '2024-09-20', 'Follow-up'),

(7, 7, 4, '2024-09-21', 'X-Ray'),

(8, 8, 5, '2024-09-22', 'Annual Exam'),

(9, 9, 6, '2024-09-23', 'Specialist Visit'),

(10, 10, 7, '2024-09-24', 'Physical Therapy');

INSERT INTO Staff (StaffID, Name, Position, FacilityID) VALUES

(1, 'Dr. Emily White', 'Doctor', 1),

(2, 'Nurse John Doe', 'Nurse', 2),

(3, 'Admin Sarah Brown', 'Administrator', 3),

(4, 'Dr. Lisa Taylor', 'Doctor', 4),

(5, 'Nurse Jake Miller', 'Nurse', 5),

(6, 'Receptionist Tom Wilson', 'Receptionist', 6),

(7, 'Physiotherapist Anna Smith', 'Physiotherapist', 7),

(8, 'Surgeon David Clark', 'Surgeon', 1),

(9, 'Dietitian Laura Jones', 'Dietitian', 8),

(10, 'Pharmacist Mike Davis', 'Pharmacist', 9);

-- Retrieve all patients in rural areas

-- SELECT \* FROM Patient WHERE Rural = TRUE;

-- List healthcare facilities with their capacities

-- SELECT Name, Type, Capacity FROM HealthcareFacility;

-- Retrieve all patients in rural areas

-- SELECT \* FROM Patient WHERE Rural = TRUE;

-- List healthcare facilities with their capacities

-- SELECT Name, Type, Capacity FROM HealthcareFacility;

-- Count of patients by healthcare facility

-- SELECT h.Name, COUNT(a.PatientID) AS PatientCount

-- FROM HealthcareFacility h

-- LEFT JOIN Appointment a ON h.FacilityID = a.FacilityID

-- GROUP BY h.Name;

-- Average age of patients visiting each facility

-- SELECT h.Name, AVG(p.Age) AS AverageAge

-- FROM HealthcareFacility h

-- JOIN Appointment a ON h.FacilityID = a.FacilityID

-- JOIN Patient p ON a.PatientID = p.PatientID

-- GROUP BY h.Name;