CREATE DATABASE HealthcareAccess;

USE HealthcareAccess;

CREATE TABLE Region (

region\_id INT PRIMARY KEY,

region\_name VARCHAR(100) NOT NULL,

population INT NOT NULL

);

CREATE TABLE HealthcareFacility (

facility\_id INT PRIMARY KEY,

facility\_name VARCHAR(100) NOT NULL,

facility\_type VARCHAR(50),

region\_id INT,

is\_rural BOOLEAN,

FOREIGN KEY (region\_id) REFERENCES Region(region\_id)

);

CREATE TABLE Patient (

patient\_id INT PRIMARY KEY,

patient\_name VARCHAR(100) NOT NULL,

age INT,

gender VARCHAR(10),

facility\_id INT,

FOREIGN KEY (facility\_id) REFERENCES HealthcareFacility(facility\_id)

);

INSERT INTO Region (region\_id, region\_name, population) VALUES

(1, 'North Region', 500000),

(2, 'South Region', 300000),

(3, 'East Region', 200000),

(4, 'West Region', 150000),

(5, 'Central Region', 600000),

(6, 'Mountain Region', 250000);

INSERT INTO HealthcareFacility (facility\_id, facility\_name, facility\_type, region\_id, is\_rural) VALUES

(1, 'North Clinic', 'Clinic', 1, TRUE),

(2, 'South Hospital', 'Hospital', 2, FALSE),

(3, 'East Health Center', 'Health Center', 3, TRUE),

(4, 'West Hospital', 'Hospital', 4, FALSE),

(5, 'Central Clinic', 'Clinic', 5, FALSE),

(6, 'Mountain Clinic', 'Clinic', 6, TRUE),

(7, 'Central Hospital', 'Hospital', 5, FALSE);

INSERT INTO Patient (patient\_id, patient\_name, age, gender, facility\_id) VALUES

(1, 'Alice', 25, 'Female', 1),

(2, 'Bob', 40, 'Male', 2),

(3, 'Charlie', 60, 'Male', 3),

(4, 'Diana', 35, 'Female', 4),

(5, 'Emily', 45, 'Female', 5),

(6, 'Frank', 33, 'Male', 6),

(7, 'Grace', 50, 'Female', 7),

(8, 'Henry', 28, 'Male', 1);

SELECT \* FROM Region;

SELECT \* FROM HealthcareFacility;

SELECT \* FROM Patient;