###### SQL Schema

CREATE TABLE Regions (

RegionID INT PRIMARY KEY,

RegionName VARCHAR(255)

);

CREATE TABLE Vaccinations (

VaccineID INT PRIMARY KEY,

VaccineName VARCHAR(255)

);

CREATE TABLE HealthClinics (

ClinicID INT PRIMARY KEY,

ClinicName VARCHAR(255),

RegionID INT,

FOREIGN KEY (RegionID) REFERENCES Regions(RegionID)

);

CREATE TABLE Patients (

PatientID INT PRIMARY KEY,

Name VARCHAR(255),

Age INT,

VaccineID INT,

ClinicID INT,

FOREIGN KEY (VaccineID) REFERENCES Vaccinations(VaccineID),

FOREIGN KEY (ClinicID) REFERENCES HealthClinics(ClinicID)

);

**SQL Queries for Data Analysis:**

**Retrieve Vaccination Rates by Region:**

SELECT RegionName, COUNT(PatientID) AS NumberOfVaccinationsFROM PatientsJOIN HealthClinics ON Patients.ClinicID = HealthClinics.ClinicIDJOIN Regions ON HealthClinics.RegionID = Regions.RegionIDGROUP BY RegionName;

**Analyze Vaccine Coverage:**

SELECT VaccineName, COUNT(PatientID) AS NumberOfDosesAdministeredFROM PatientsJOIN Vaccinations ON Patients.VaccineID = Vaccinations.VaccineIDGROUP BY VaccineName;