**SDG Selection:** SDG 3: Good Health and Well-being  
**Problem Definition:** Access to healthcare services in rural areas. Many rural communities face significant barriers to accessing healthcare, including distance, lack of resources, and insufficient health personnel.

**SQL Programming**

* **Data Retrieval:** Write SQL queries to retrieve relevant data based on your problem definition.

1. Retrieve all patients and their health issues:

SELECT p.Name, h.Description

FROM Patients p

JOIN Patient\_HealthIssues phi ON p.PatientID = phi.PatientID

JOIN HealthIssues h ON phi.IssueID = h.IssueID;

1. Find all appointments for a specific patient:

SELECT a.Date, a.Status, hp.Name

FROM Appointments a

JOIN HealthcareProviders hp ON a.ProviderID = hp.ProviderID

WHERE a.PatientID = 1;

* **Data Analysis:** Write SQL queries to analyze data and generate insights related to your SDG problem.

1. Count the number of patients per location:

SELECT Location, COUNT(\*) AS PatientCount

FROM Patients

GROUP BY Location;

1. Calculate the average age of patients with a specific health issue:

SELECT AVG(p.Age) AS AverageAge

FROM Patients p

JOIN Patient\_HealthIssues phi ON p.PatientID = phi.PatientID

WHERE phi.IssueID = 1; -- for 'High Blood Pressure'