Part 1: SDG Selection and Problem Definition

1. **SDG Selection**:
    - Choose an SDG that resonates with you.Problem Definition:
    - Define a specific, data-driven problem related to your chosen SDG. For example:
        - SDG 3: "Improving access to healthcare in rural areas by analyzing healthcare facility distribution."
        - SDG 7: "Identifying regions with poor access to clean energy sources and proposing solutions."

Part 2: Database Design

1. **ERD** (Entity-Relationship Diagram):
    - Design an ERD for the SDG problem you're addressing. For instance, for SDG 3:
        - Entities:
        - Relationships:
        - Tools: You can use tools like Lucidchart, Draw.io, or MySQL Workbench to create the ERD.

Part 3: Data Analysis Using Excel

1. **Import Data**:
    - Export your SQL results (e.g., using MySQL Workbench) and import them into Excel.
2. **Analysis**:
    - Use Excel's Pivot Tables, Charts, and other tools to analyze the data. For instance, create a Pivot Table showing patient counts per region.
3. **Dashboard**:
    - Create an interactive Excel dashboard. You could visualize:
        - A bar chart showing healthcare facility distribution.
        - A map chart showing regions with healthcare access issues.
        - Pivot tables summarizing key metrics.

Part 4: Integration and Testing

1. **Integration**:
    - Document how you imported data into Excel and ensured consistency (e.g., verifying table joins, removing duplicates).
2. **Testing**:
    - Test your Excel dashboard and database integration to ensure the data visualizations reflect the correct insights.