**Integration Documentation**

**Integration Process**

**1. Data Import from Database to Excel**

* **Step 1: Export SQL Query Results**
  + Run SQL queries to retrieve the necessary data from the database.
  + Export the results to CSV format for each relevant table (e.g., Region, Healthcare\_Facilities, Healthcare\_Staff, Health\_Services, Patients).
* **Step 2: Import Data into Excel**
  + Open Excel and go to the "Data" tab.
  + Click "Get Data" -> "From File" -> "From Text/CSV".
  + Select the CSV file to import.
  + Follow the prompts to load the data into Excel, ensuring that data types and formats are preserved.

**2. Data Preparation**

* **Step 1: Clean Data**
  + Check for and address any inconsistencies or errors in the imported data.
  + Ensure all columns are properly formatted (e.g., date formats, numeric values).
* **Step 2: Create Tables**
  + Convert the imported data ranges into Excel tables for better data management.
  + Use the "Insert" -> "Table" option to create tables from the data ranges.

**3. Create Pivot Tables and Charts**

* **Step 1: Pivot Tables**
  + Insert pivot tables to analyze distributions (e.g., number of healthcare facilities, staff count by facility, service availability).
  + Go to "Insert" -> "PivotTable" and select the data range.
  + Configure the pivot table fields to display relevant summaries and aggregations.
* **Step 2: Charts**
  + Develop visualizations such as bar charts, pie charts, and map charts.
  + Go to "Insert" -> "Charts" and choose the appropriate chart type.
  + Customize charts to accurately represent data insights (e.g., healthcare facility distribution, service costs).

**4. Dashboard Creation**

* **Step 1: Design Dashboard**
  + Organize the dashboard layout to include key visualizations and insights.
  + Add charts and pivot tables to the dashboard sheet.
  + Include interactive elements such as slicers for filtering data by regions or facility types.
* **Step 2: Test Functionality**
  + Ensure all dashboard elements are functioning correctly.
  + Validate that interactive elements provide accurate data representations.

**5. Documentation**

* **Step 1: Document Integration Process**
  + Create a detailed document outlining the steps taken to import and analyze the data in Excel.
  + Include screenshots and explanations of key steps and configurations.
* **Step 2: Validate Data Accuracy**
  + Verify that the data presented in the dashboard aligns with the source data.
  + Perform spot checks to ensure the accuracy of pivot tables and charts.

[Here is My Pitch Deck Link](https://gamma.app/docs/Enhancing-Healthcare-Access-in-Rural-Areas-u84yz990os3wjru)

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