

## **Task: Exploring Country Development Indicators**

### **Part 1: Database Exploration**

- 1. Connect to the Database**
  - Connect to the SQLite database
- 2. Explore the Indicators Table**
  - Examine the structure and contents of the Indicators table.
- 3. Check the Number of Rows**
  - How many rows are there in the Indicators table?
- 4. Check for Missing Values in One Column**
  - Identify if there are any missing values in a specific column
- 5. Filter Non-Null Values**
  - Filter out rows where a specific column has non-null values.
- 6. Check for Missing Values in All Columns**
  - Check for missing values in all columns of the Indicators table.
- 7. How Many Different Indicators Are There?**
  - Count how many different indicators are available.
- 8. Select Distinct Indicators**
  - Select distinct values for the indicator column.
- 9. Search for an Indicator Related to GDP**
  - Search for an indicator related to GDP.
- 10. Search for GDP Per Capita of Brazil in the Last 10 Years**
  - Retrieve GDP per capita (current US\$) data for Brazil for the last 10 years.
- 11. Compare Brazil's GDP Per Capita with China's**
  - Compare GDP per capita (current US\$) for Brazil and China over the same period.
- 12. Check Brazil's GDP Per Capita in the 1990s**
  - Filter for GDP per capita (current US\$) data for Brazil in the 1990s.
- 13. Check Indicators for Brazil, China, and India in 2014**
  - Check GDP and other indicators for Brazil, China, and India in 2014.

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### **Part 2: Aggregating and Summarizing**

### **1. Search for the Highest GDP Per Capita in 2014**

- Find the country with the highest GDP per capita in 2014.

### **2. Reaffirm the Highest GDP Per Capita**

- Reaffirm the highest GDP per capita (current US\$) by ordering the countries.

### **3. Compare the Averages of GDP Per Capita**

- Compare the average GDP per capita between different countries.

### **4. How Many Measures During This Time?**

- Find how many measures (data points) were collected during a specific time period (e.g., the last 10 years).

### **5. Note on Angola's Data**

- Confirm that Angola has fewer measures than other countries by checking its data availability over the years.

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## **Part 3: JOINS**

### **1. Join to Get GDP-Related Information in 2014 for Brazil**

- Perform a join to get all GDP-related information measured in Brazil in 2014.