

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.

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.