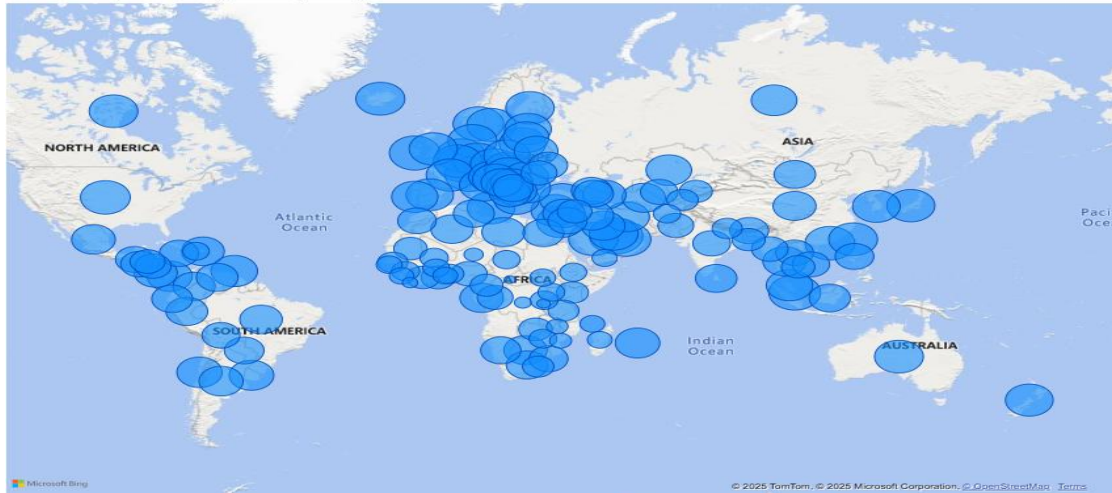


Web Scraping

Sum of GDP per capita by Country or region



STEPS :

1. Create a New Power BI File

- Open Power BI Desktop.
- Save the file as “Web Scraping”

2. Get Data from the Web (Wikipedia Source)

- Open your browser → Go to Google and search for “World Happiness Wikipedia”.
- Open the Wikipedia page that contains the World Happiness Report data.
- Copy the URL from the address bar.

3. Connect Power BI to the Web Page

- In Power BI → Go to Home tab → Click Get Data → Web.
- Paste the copied URL and click OK.
- Power BI will load tables from that webpage.
- Select the table that contains the Country or Region, GDP per capita, and other happiness metrics.
- Click Load.

4. Create a Map Visualization

- Go to the Visualizations Pane → Select the Map chart icon.

5. Drag and drop following field:

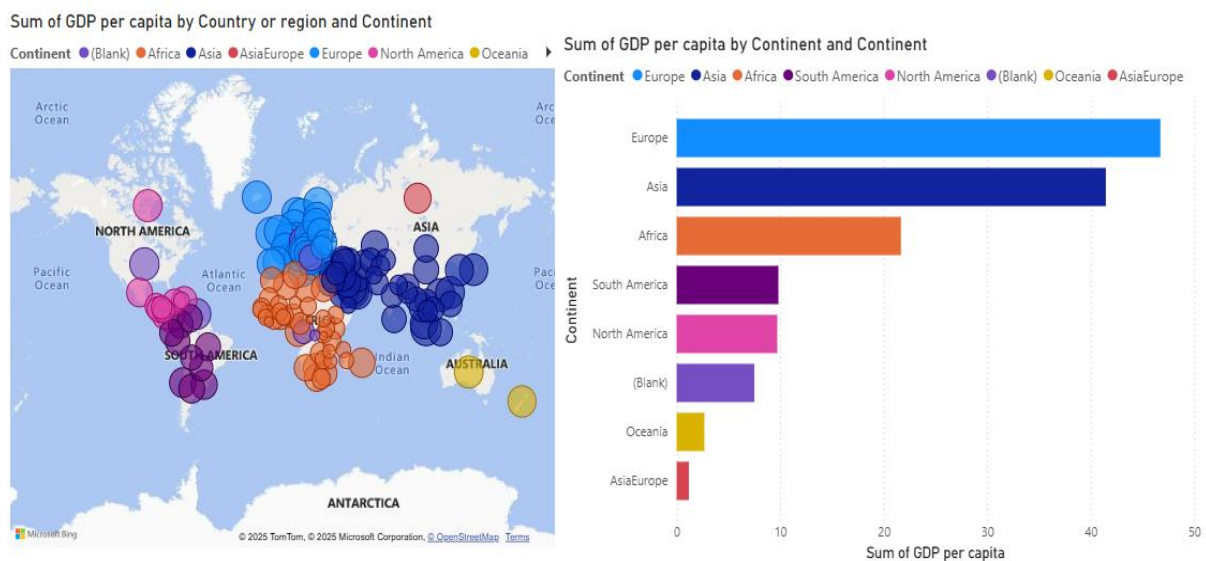
- Location: Country or Region
- Bubble Size: GDP per capita
- Legend : Continent

6. Go to CC Table → Home Tab → Transform Data → Click It.

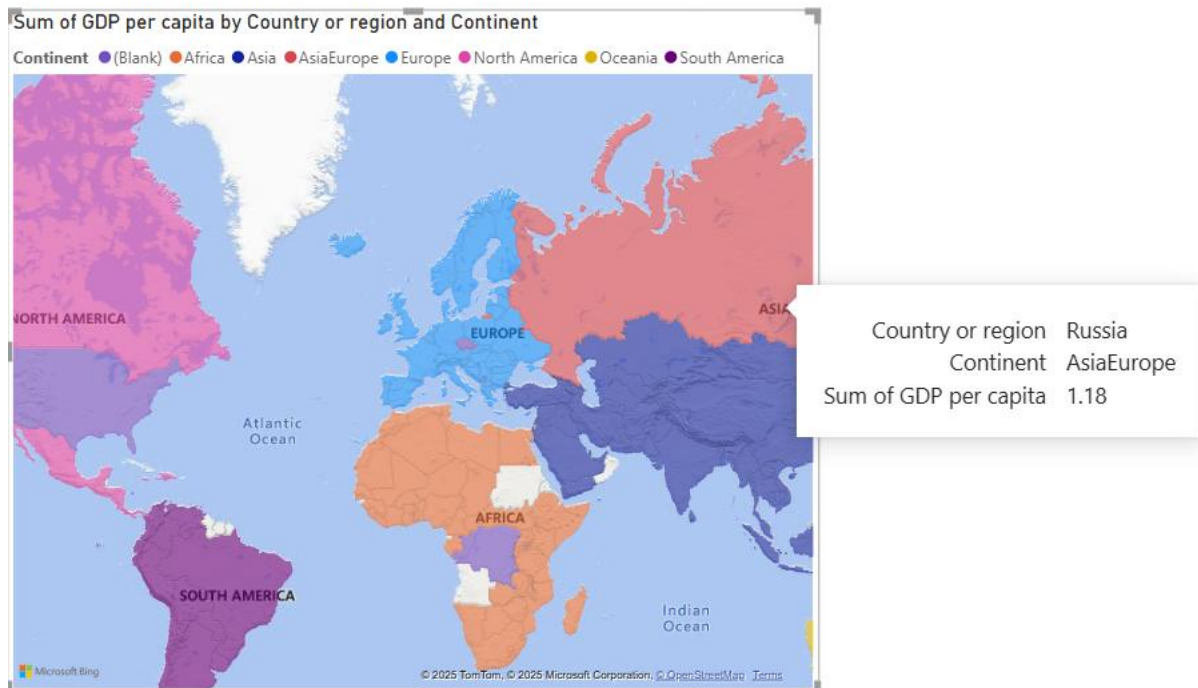
- Power BI will open the Power Query Editor.
- Here, remove unwanted columns (e.g., notes, blank fields).
- After cleaning, click Close & Apply to save changes and apply them to the model.

Step 7: Create Data Relationships (Model View)

- Go to the Model View
- You will see both tables — WHR (World Happiness Report) and CC (Country Code or supporting table).
- Create a relationship by dragging the 'Country or Region' column from the WHR table to the same column in the CC table.
- This connects both tables using the Country or Region as the common key.



1. Go to the **Visual Format Pane** (select your chart).
2. Select the **Stacked Bar Chart** type.
3. Drag and drop the following fields:
 - **X-axis: GDP per Capita**
 - **Y-axis: Continent**
 - **Legend: Year**
4. when we click on specific bar it will be showing the map specific area.



1. Go to the Visual Format Pane (select your chart).

2. Select the **Filled map**.

3. Drag and drop the following fields:

- **Location: Country or Region**
- **Legend: Year**
- **Tooltip: GDP per capita**

4. Filled Map is better because it gives a clearer, continent-wise view of how GDP per capita varies across the world, highlighting global economic differences more effectively.

Insight:

The filled map displays the sum of GDP per capita by country or region and continent from the World Happiness dataset.

- North America, Europe, and Oceania show darker shades, representing countries with higher GDP per capita.
- Africa and parts of Asia appear in lighter colors, indicating lower GDP per capita.
- This visualization clearly demonstrates the economic disparity between developed and developing regions.
- It also highlights how geographical and continental differences influence economic prosperity.
- Countries like the United States, Canada, and Western Europe contribute significantly to the global GDP, whereas countries in Africa and South Asia contribute less comparatively.

