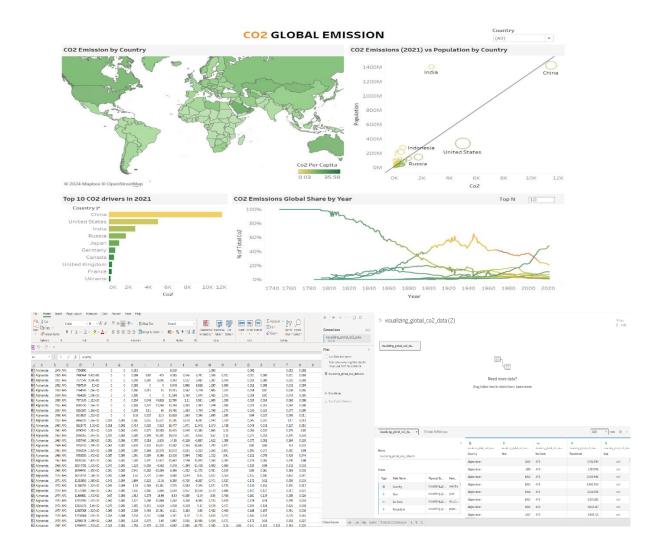
CO2 GLOBAL EMISSION

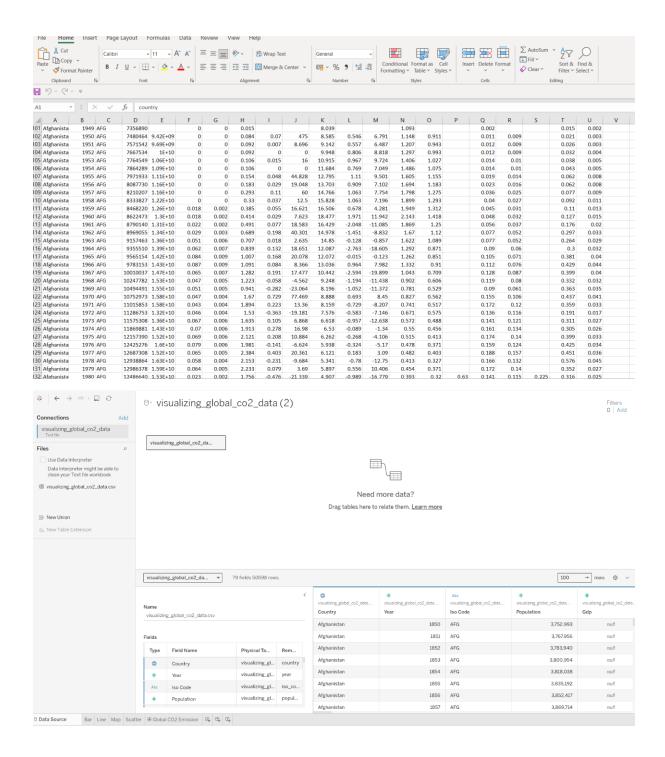
Objectives:

The objective of this analysis is to understand which regions are global drivers of carbon emissions and their impact. The goal is to transform the raw data into a dynamic dashboard that users can identify patterns, trends, and drivers of global CO2 emissions.



Exploring Data:

Upon connecting the "visualizing_global_co2_data" CSV to the **TABLEAU**, it was observed that countries like China, United States, and India are among the largest contributors of CO2 emissions.



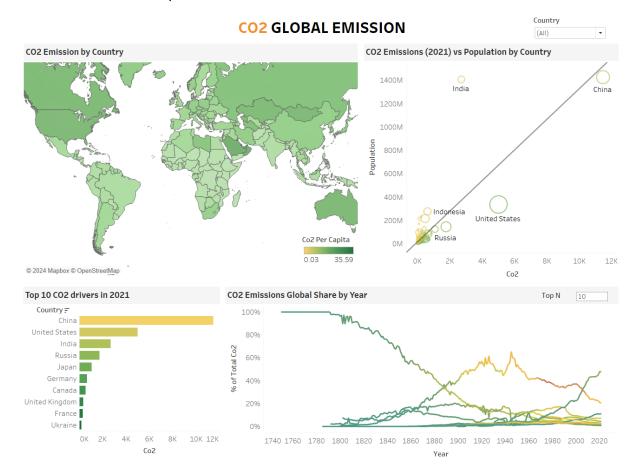
Tasks:

 Data Filtering: A data source filter was applied to exclude records with NULL Iso Codes.

- 2. **Data Type Optimization**: All fields with "CO2" in their name were converted to the Number (Whole) data type and changed to continuous measure.
- 3. **Parameter Creation**: A new integer type parameter named "Top N" was created with a default value of 10.
- 4. **Bar Chart**: A bar chart was created displaying top 10 countries responsible for global CO2 emissions in 2021.
- 5. **Line Chart**: A line chart was created showing the % of total share of CO2 by year for the top 10 countries using the "Top N" parameter.
- Map Visualization: A map at the country level was generated using CO2 Per Capita for the year 2021, with any country/region errors fixed and null value countries removed.
- 7. **Scatter Plot**: A scatter plot comparing CO2 and population at the country level was created, with bubbles sized by Temperature Change from CO2 for the year 2021. A linear regression trend line was also added as a bonus.

Dashboard Assembly:

Sheets displaying top 10 countries driving global CO2 emissions in 2021 as a bar chart, % of CO2 trend as a line chart, CO2 per capita as a map, and the relationships between CO2 and population as a scatter plot were added to the dashboard. A title and the "Top N" parameter were included at the top of the dashboard.



Insights and Patterns:

Upon analysis, several interesting patterns and trends emerged:

- The top contributors to global CO2 emissions are consistently visible across the years.
- There seems to be a correlation between CO2 emissions and population, with densely populated countries often emitting more CO2.
- The interactive dashboard allows users to explore the data and gain insights into the global CO2 impact and trends easily.