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# UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY

A global CO<sub>2</sub> emission analysis

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## TOPICS

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# **Project title ; unearthing the environmental impact of human activity**

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# Unearthing the environmental impact of human activity

**Climate Change:** Human activities such as burning fossil fuels, deforestation, and industrial processes release greenhouse gases like carbon dioxide (CO<sub>2</sub>) into the atmosphere, leading to global warming and climate change.

**Land Degradation:** Soil erosion, desertification, and land pollution from industrial activities and improper waste disposal degrade land quality, reducing its productivity and biodiversity.

**Resource Depletion:** Unsustainable extraction of resources such as fossil fuels, minerals, and freshwater leads to depletion and exacerbates environmental degradation.

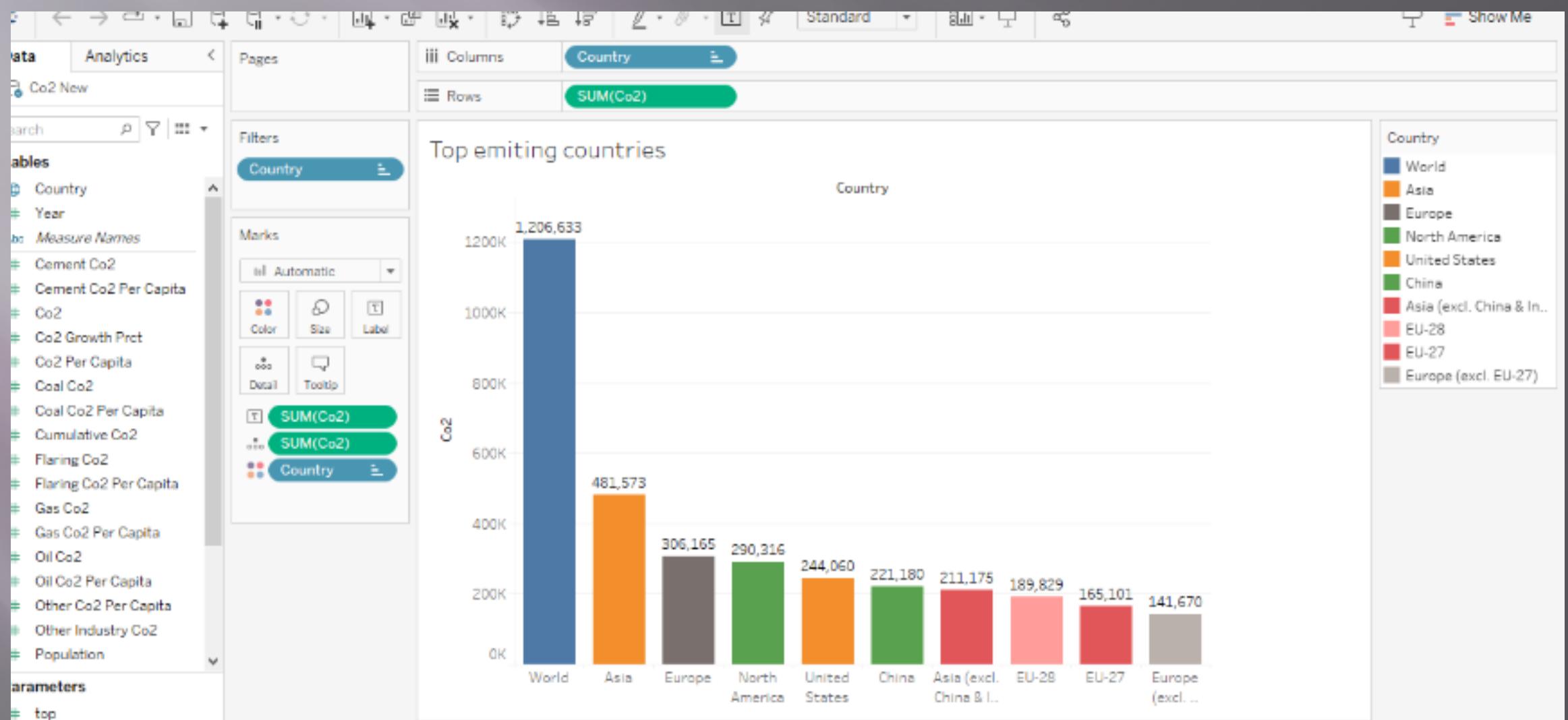
# A global CO<sub>2</sub> emission analysis

**Impact on Climate Change:** CO<sub>2</sub> is a major greenhouse gas responsible for trapping heat in the Earth's atmosphere, leading to global warming and climate change. The accumulation of CO<sub>2</sub> and other greenhouse gases in the atmosphere is driving changes in weather patterns, rising temperatures, melting ice caps, and sea-level rise.

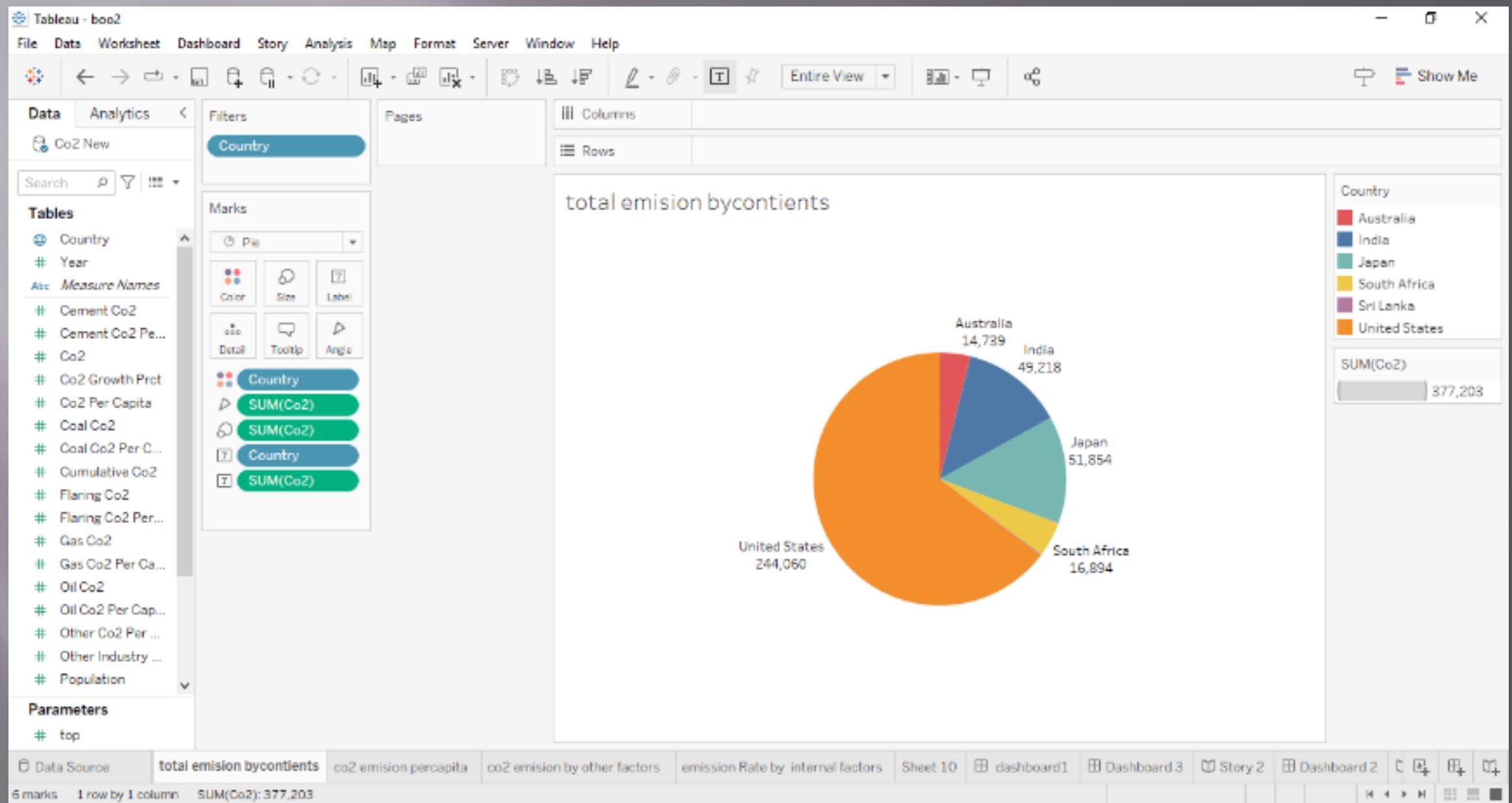
**Carbon Pricing:** Implementing carbon pricing mechanisms such as carbon taxes or emissions trading systems can incentivize businesses and individuals to reduce their carbon footprint by internalizing the costs of CO<sub>2</sub> emissions.

**Carbon Capture and Storage (CCS):** CCS technologies capture CO<sub>2</sub> emissions from industrial processes and power plants and store them underground to prevent them from entering the atmosphere. CCS has the potential to reduce CO<sub>2</sub> emissions from industries with high emissions intensity.

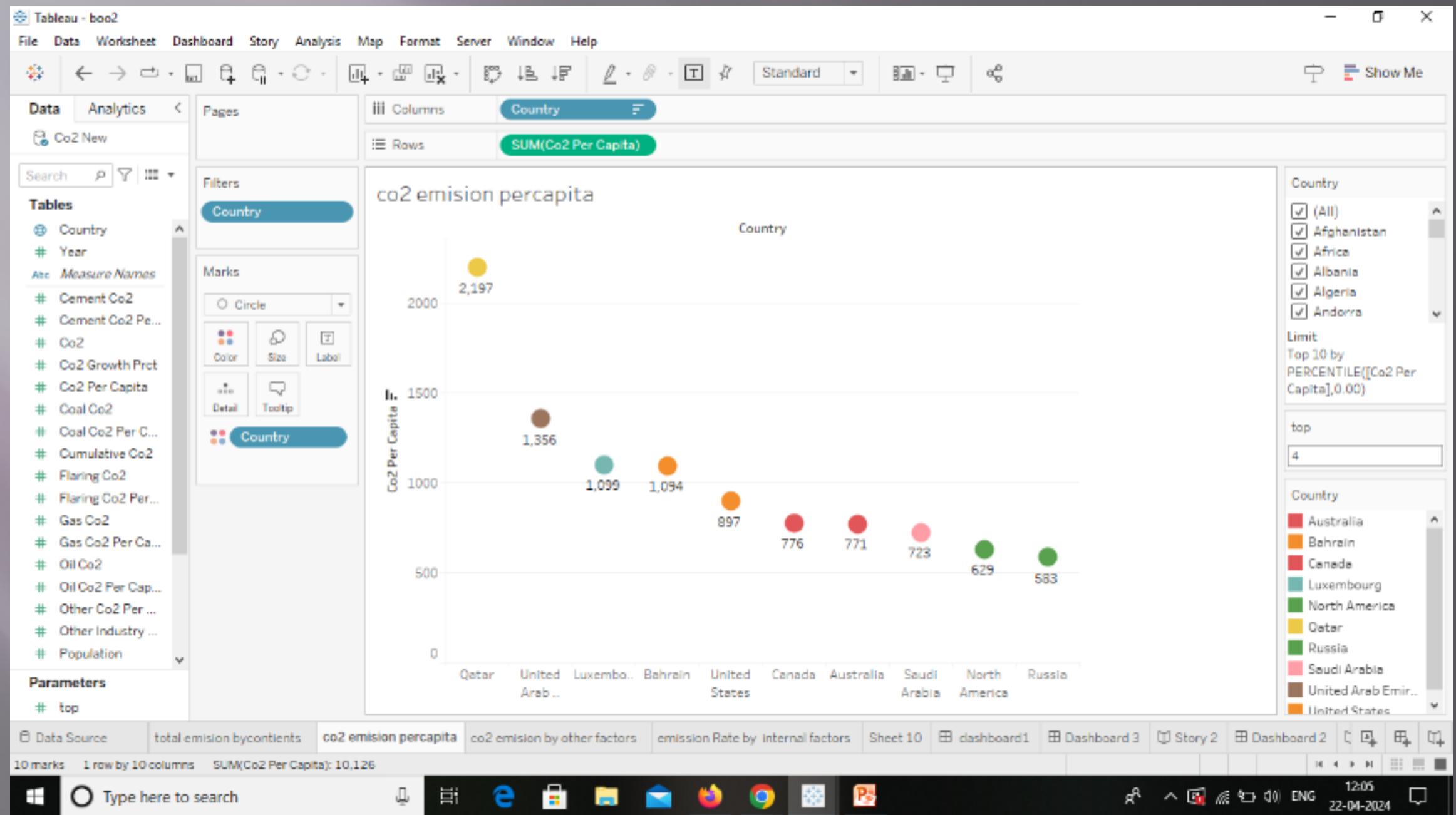
# Top emitting countries



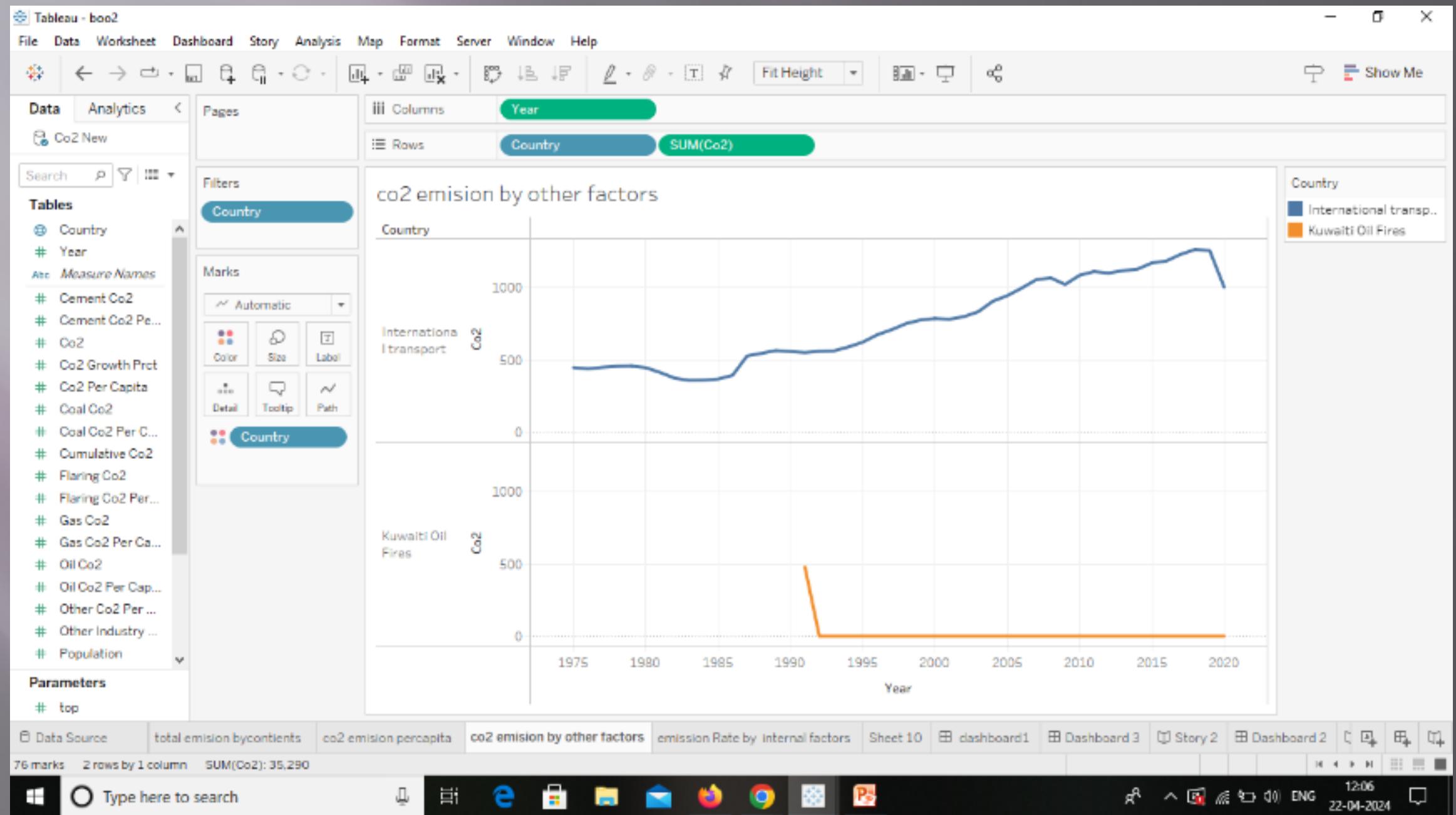
# Total emission by countries



# CO2 emission per capita



# CO<sub>2</sub> emission by other factors



# Dashboard1

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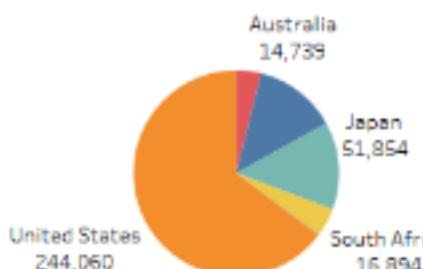
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Size Desktop Browser (1...)

Sheets total emision bycontients top ... co2 ... co2 ... total ...

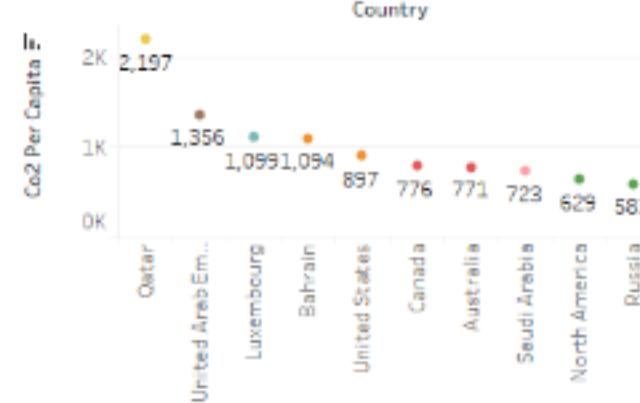
Objects Horizontal Cont... Vertical Contai... Text Extension Data Story Image Blank Workflow Web Page

total emision bycontients



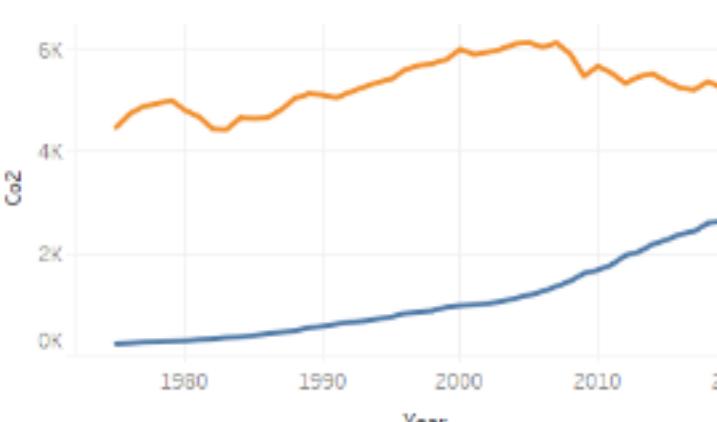
Country	Emissions
United States	244,060
South Africa	16,894
Japan	51,854
Australia	14,739

co2 emission percapita



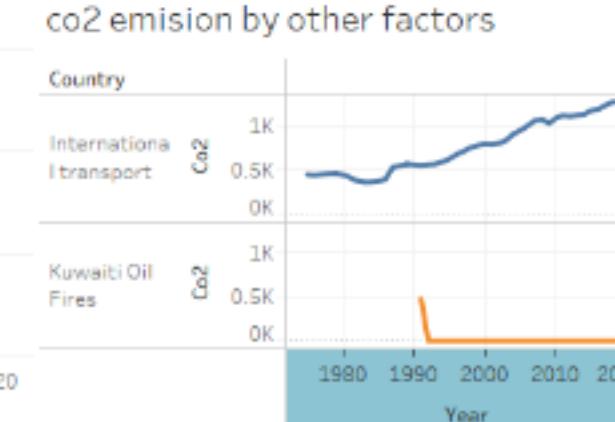
Country	Co2 Per Capita
Qatar	2,197
United Arab Em...	1,356
Luxembourg	1,099
Bahrain	1,094
United States	897
Canada	776
Australia	771
Saudi Arabia	723
North America	629
Russia	583

co2 emision india vs united states



Year	United States (Co2)	India (Co2)
1980	~4,500	~500
1990	~4,800	~1,000
2000	~5,200	~1,500
2010	~5,000	~2,000
2020	~4,800	~2,800

co2 emision by other factors



Year	International Transport (Co2)	Kuwaiti Oil Fires (Co2)
1980	~400	~100
1990	~500	~100
2000	~700	~100
2010	~1,000	~100
2020	~1,200	~100

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Data Source total emision bycontients co2 emision percapita co2 emision by other factors emission Rate by Internal factors Sheet 10 dashboard1 Dashboard 3 Story 2 Dashboard 2

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# Dashboard2

Tableau - boo2

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Dashboard Layout < ^

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Size Automatic

Sheets

- total world emission
- top emitting countries
- co2 emissions
- co2 emissions per capita
- total world emission
- ...

Objects

- Horizontal Container
- Vertical Container
- Text
- Extension
- Data Story
- Image
- Blank
- Workflow
- Web Page

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total world emission

Top emitting countries

Sheet 10

emission Rate by internal factors

Country

- Afghanistan
- Africa
- Albania
- Algeria
- Andorra
- Angola
- Anguilla
- Antarctica
- Antigua and Barb...
- Argentina
- Armenia
- Aruba
- Asia
- Asia (excl. China ..)
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus
- Belgium
- Belize
- Benin

Measure Names

- avg(0.0)

276 marks 6 rows by 1 column SUM(Cement Co2): 134.685

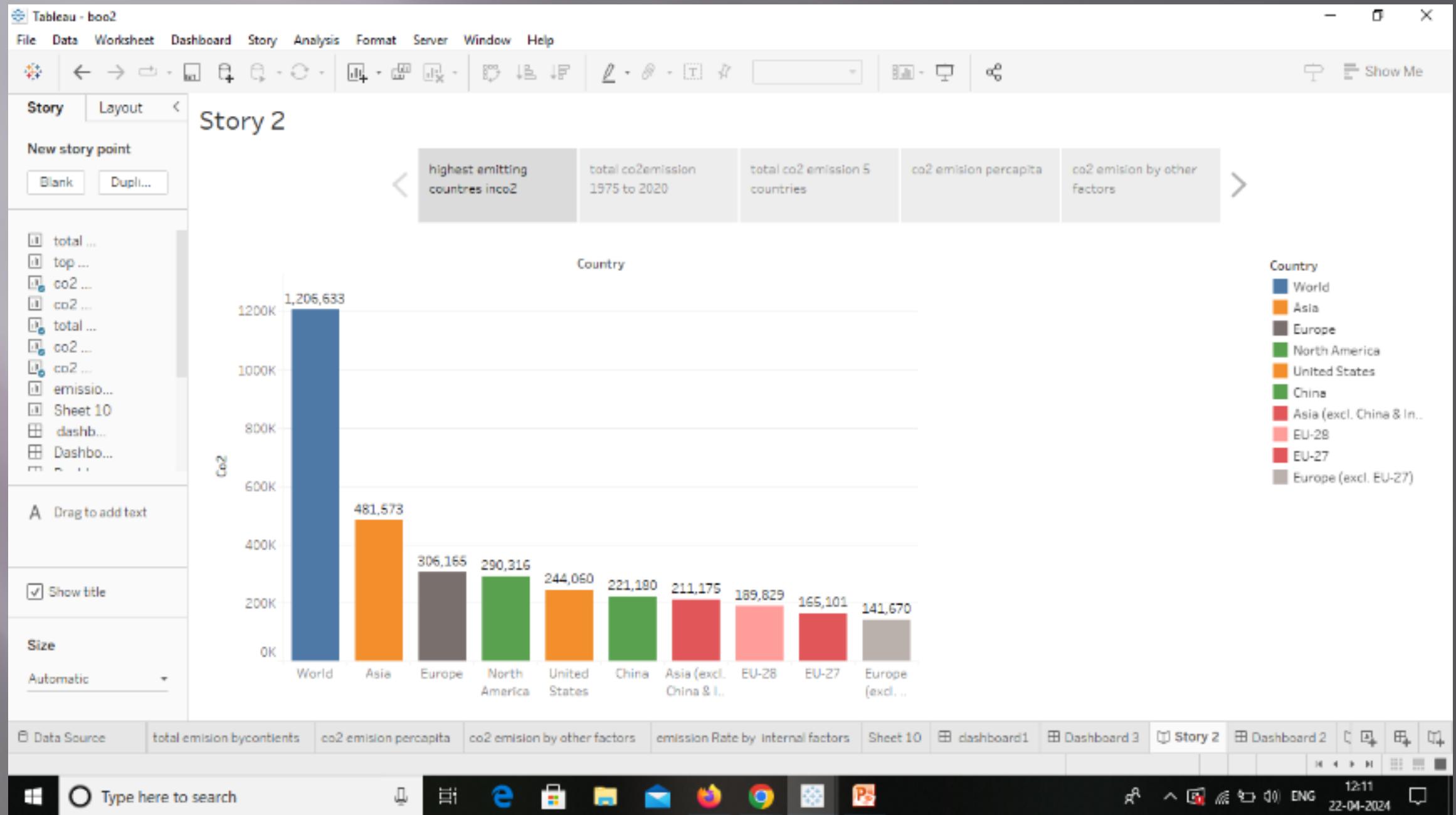
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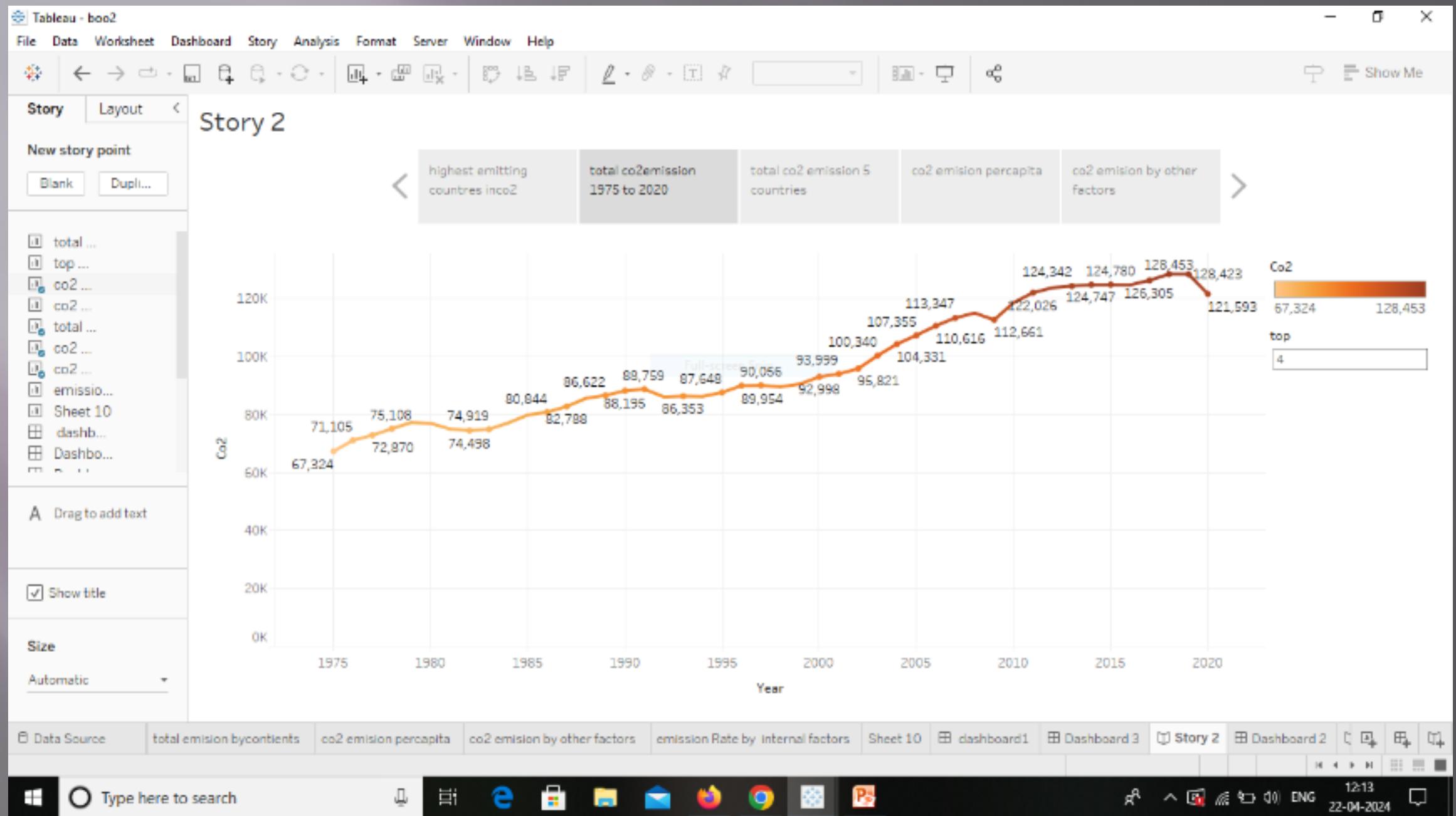
The dashboard displays several visualizations:

- total world emission:** A choropleth map of the world where each country's color represents its CO2 emissions. Numerical values are overlaid on the map for major emitters like China (83,778), United States (23,226), and India (244,080).
- Top emitting countries:** A bar chart showing CO2 emissions in millions of tonnes for various entities. The top emitters are the World (1,206,633), Asia (491,573), Europe (306,165), North America (290,316), United States (244,060), China (221,180), Asia (excl. China & India) (211,175), EU-28 (189,829), EU-27 (165,101), and Europe(excl. EU-27) (141,670).
- Sheet 10:** A pie chart showing the contribution of different internal factors to CO2 emissions. The segments are labeled with their respective values: South Africa (14,505), Africa (15,929), Asia (249,912), Asia (excl. China & India) (54,309), and a small segment for 'Other' (365,677). The chart has three data points with the formula 'avg(0.0)'.
- emission Rate by internal factors:** A line chart showing the trend of CO2 emissions from different sources from 1980 to 2020. The y-axis represents CO2 emissions in tonnes, and the x-axis represents the year. The chart shows a general upward trend for all sectors, with significant fluctuations.

# Highest emitting countries in CO2



# Total CO2 emission 1975 to 2020



# Total emission in 5 countries

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highest emitting countries inco2 total co2emission 1975 to 2020 total co2 emission 5 countries co2 emision percapita co2 emision by other factors

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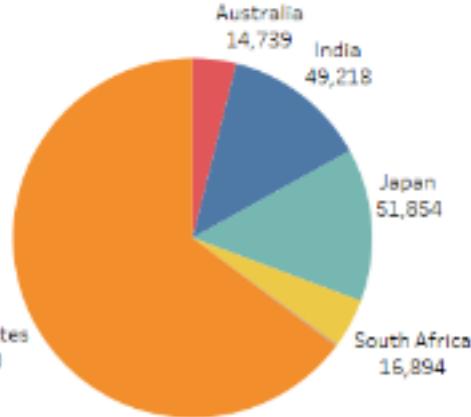
Size Automatic

Country

- Australia
- India
- Japan
- South Africa
- Sri Lanka
- United States

Co2

377,203



Country	Emissions
United States	244,060
India	49,218
Japan	51,854
Australia	14,739
South Africa	16,894

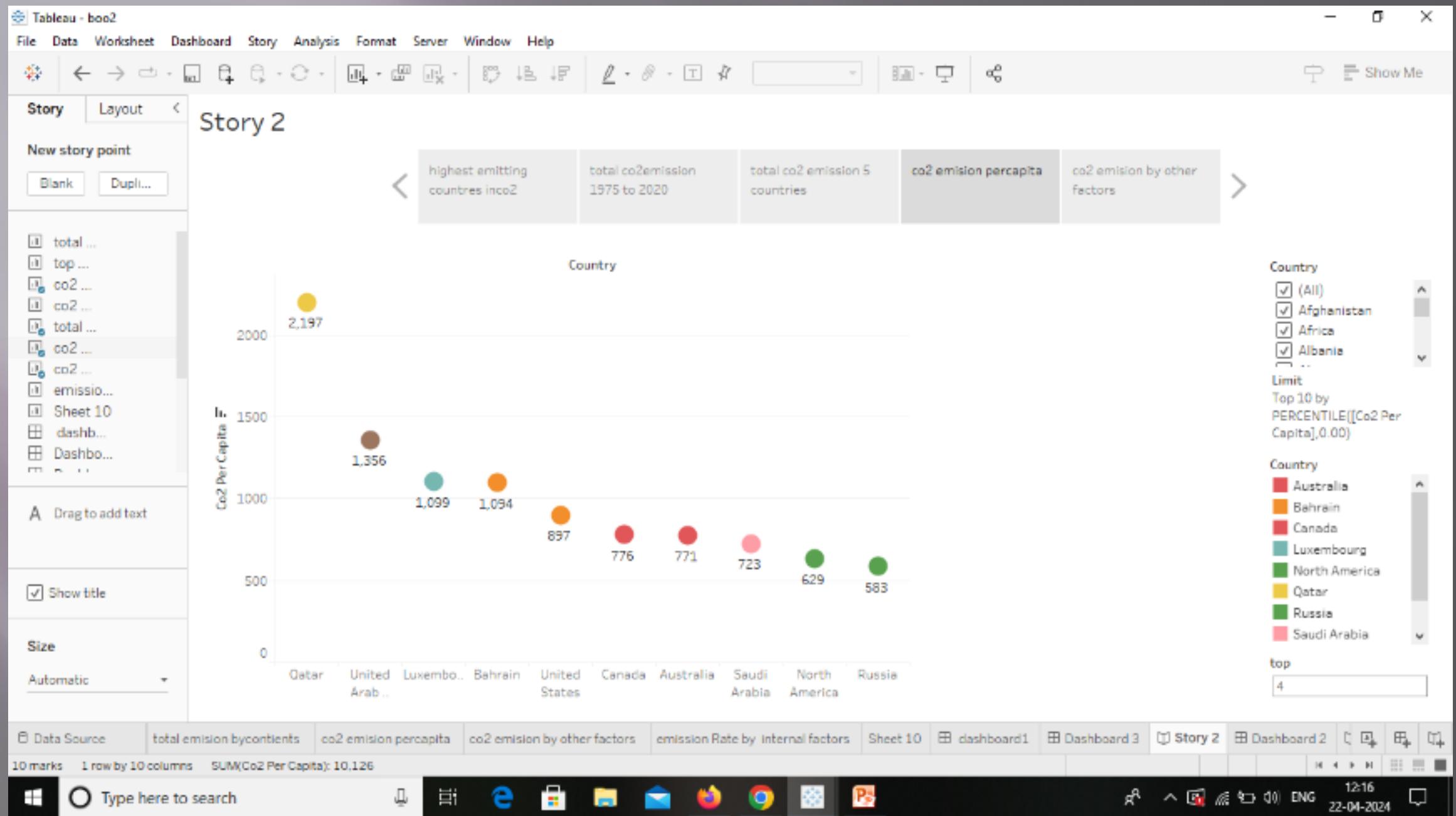
Data Source: total emission by continents

1 row by 1 column SUM(Co2): 377,203

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# CO2 emission per capita



# CO2 emission by other factors

