Milestone 1:
Empathy map creation

Template

Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

Share template feedback

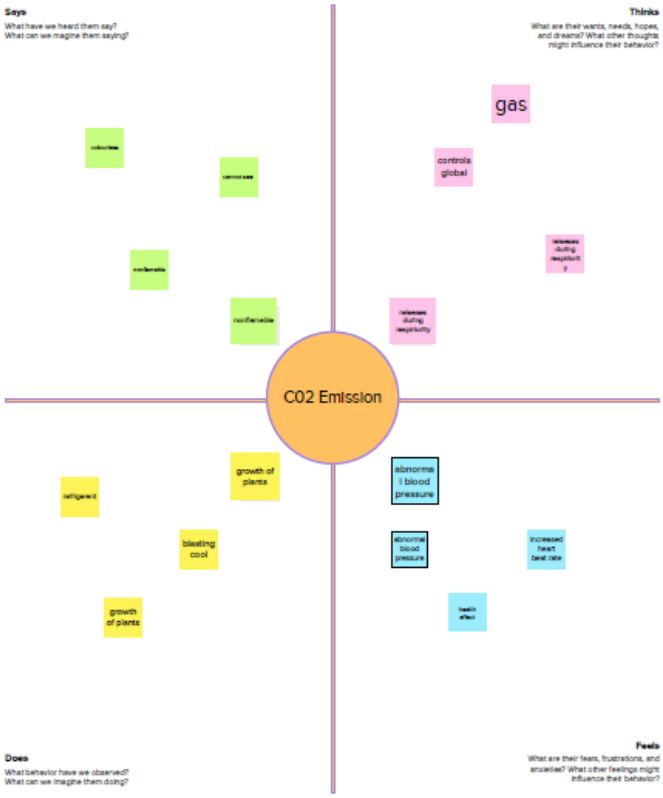
Need some inspiration?

See a finished version of this template to kickstart your work.

Open example →

Build empathy

The information you add here should be representative of the observations and research you've done about your users.



Milestone 2:
Data Collection & Extraction from Database

Milestone2: Data Collection & Extraction from Database

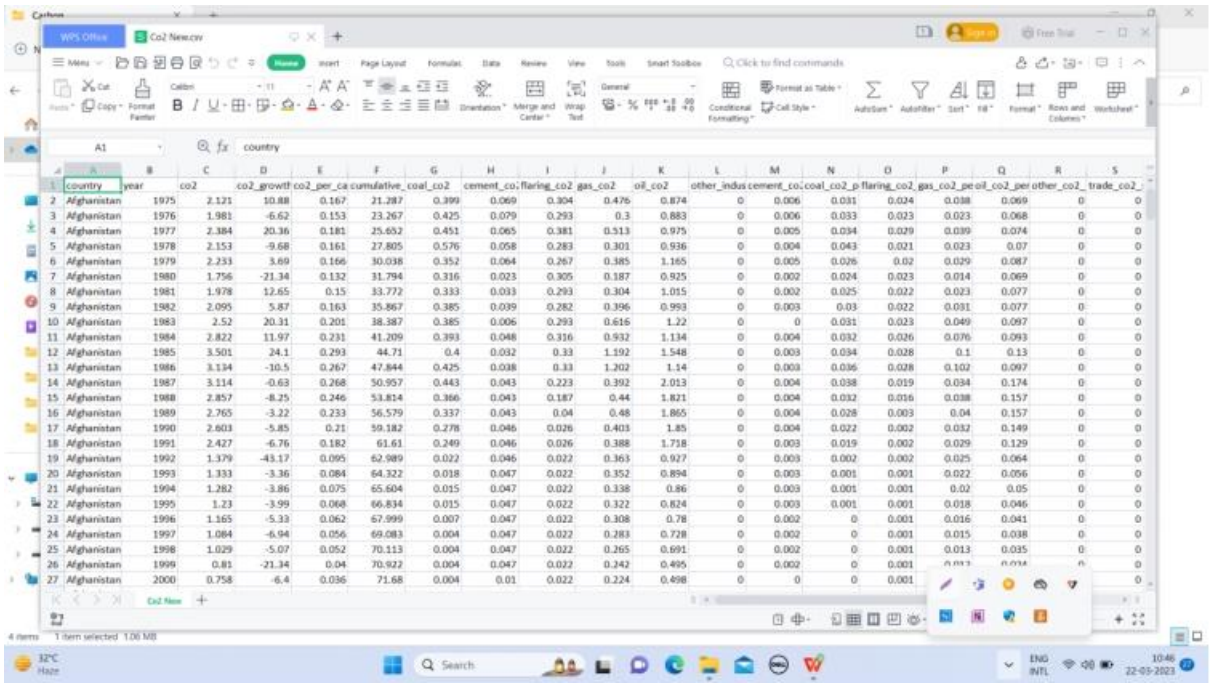
Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, and evaluate outcomes and generate insights from the data.

Activity 1: Collect the data set

Please use the link to download the data set:
https://drive.google.com/file/d/1n764uDPT_ZF7kzGFLtpxkwBBsDBScbWm/view?usp=sharing

solution:

We opened and accessed the data set in csv format

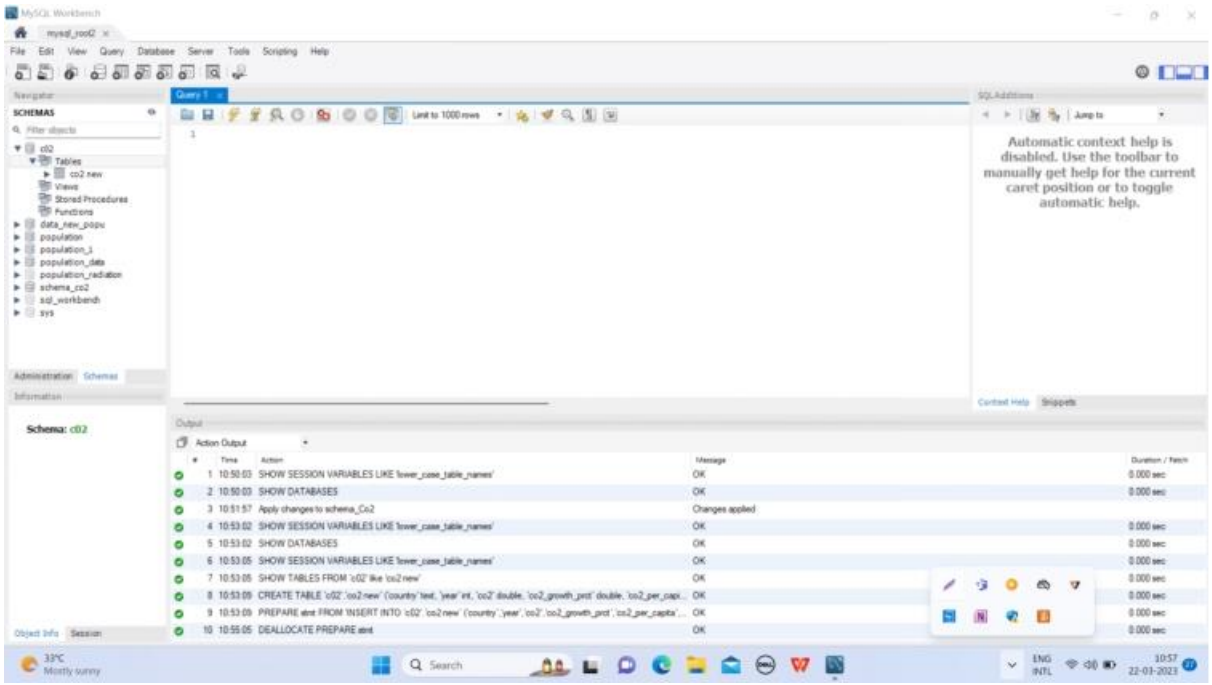


Activity 2: Storing Data in DB & Connect DB with Tableau

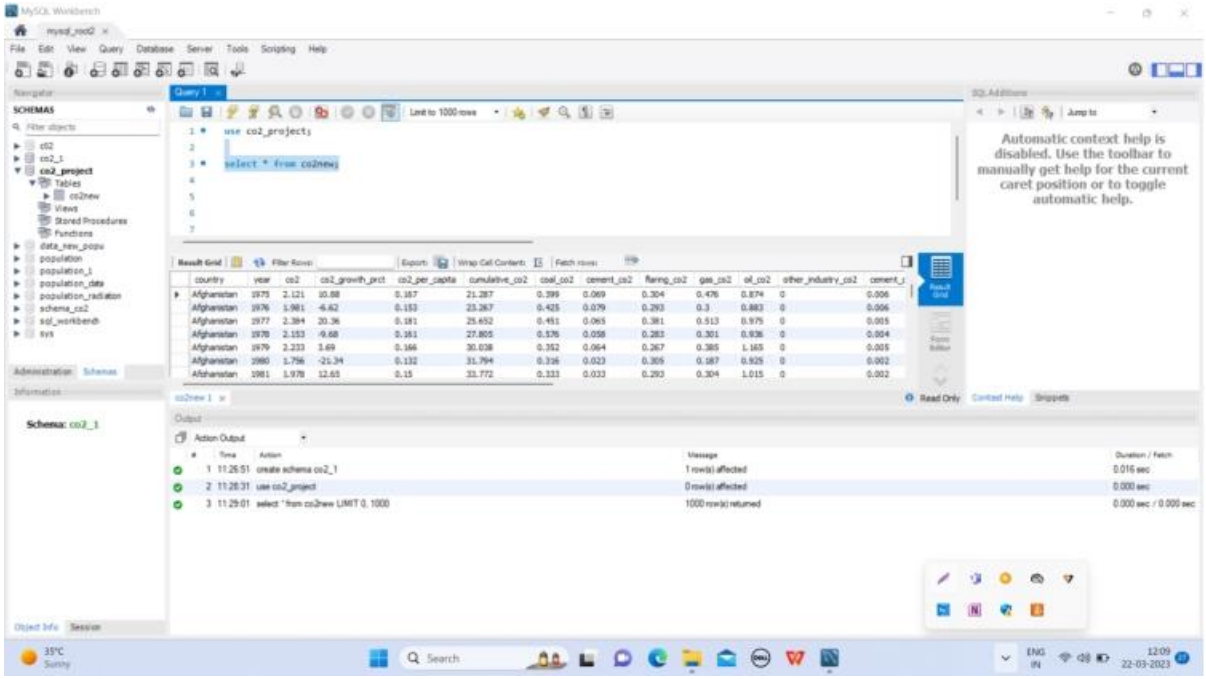
Explanation video link:
https://drive.google.com/file/d/1WUK_E6SJbev4eByoyGUlubsJ2yiifvgz/view?usp=sharing

Solution:

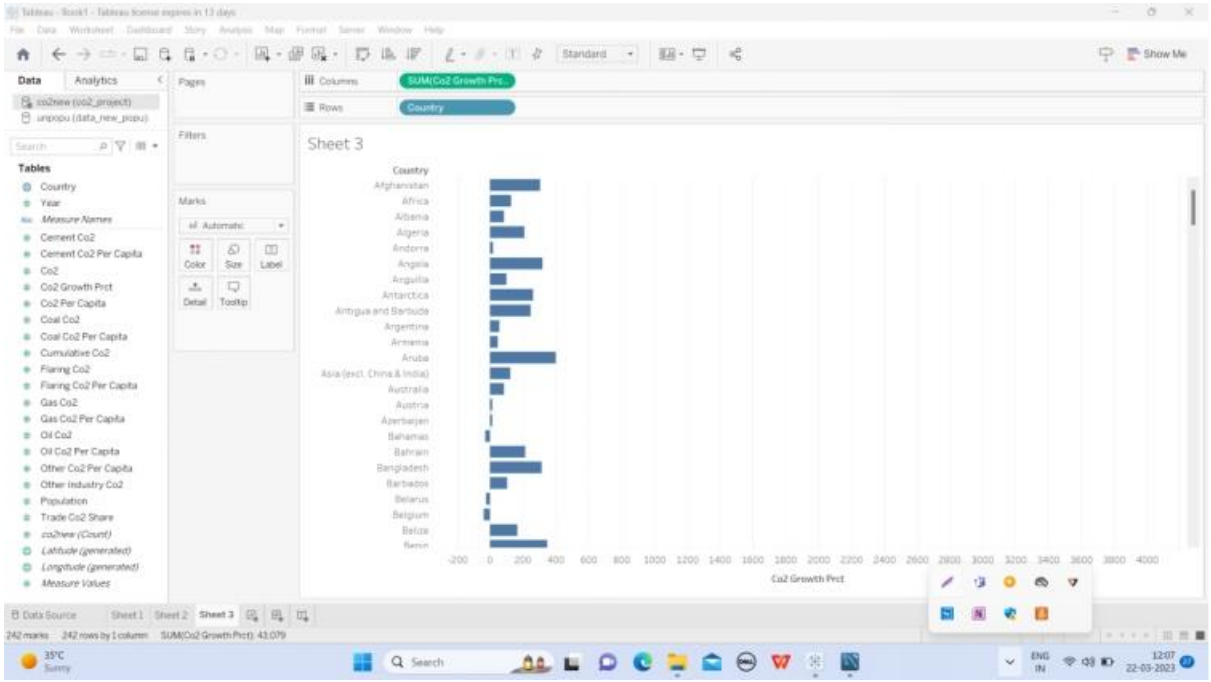
We opened a new sql workbench



Then we impot the csv file to tableau



We generated a new graph using tableau for co2 emmision project



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Milestone 3:
Data Preparation

Milestone 3: Data Preparation

Activity: Prepare the Data for Visualization

Solution:

We collected the data set. The followings are in the set as

1.csv file is noted.

2. The data consists of years around 1950-2000.

3. The numbers related to the Co2 emission in various countries around world like Afghanistan, America, Australia etc.

4. The growth of Co2 emission from various sources is noted like coal, cement, oil etc.

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Milestone 4:
Data Visualization

Milestone 4: Data PreparationMilestone 4: Data Visualization

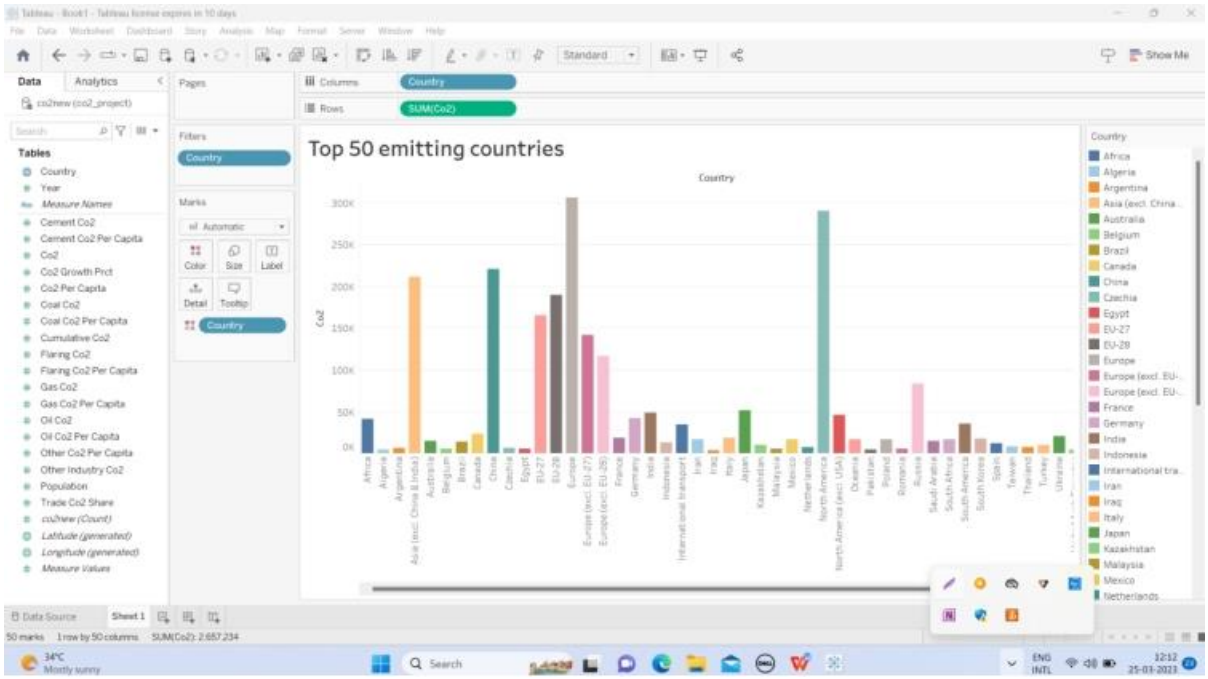
Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.

Activity 1: No of Unique Visualizations

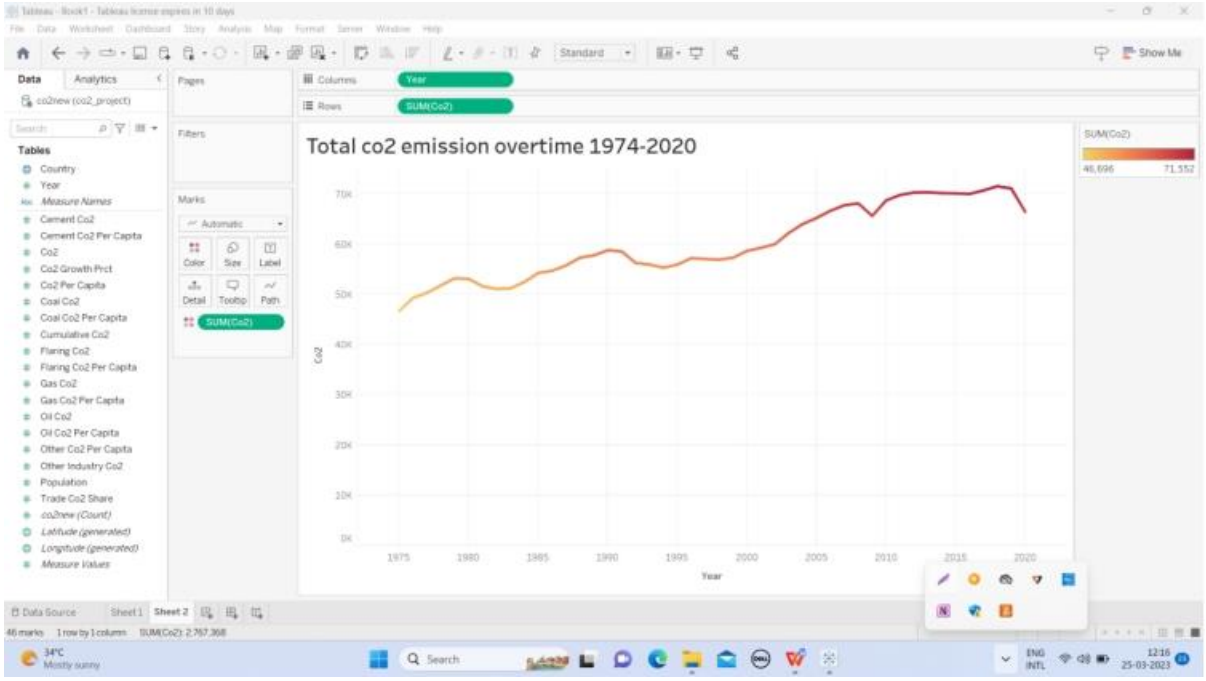
The number of unique visualizations that can be created with a given dataset. Some common types of visualizations that can be used to analyze the Co2 Emission include bar charts, line charts, Tree Map, scatter plots, pie charts, Maps etc. These visualizations can be used to compare performance, track changes over time, show Emission, and relationships between variables, breakdown of factors and emission by countries and continentals.

Activity 1.1,1.2,1.3: To Understand- Total World Emission, Co2 Emission over Time,continentals, countries, specified year 2020.

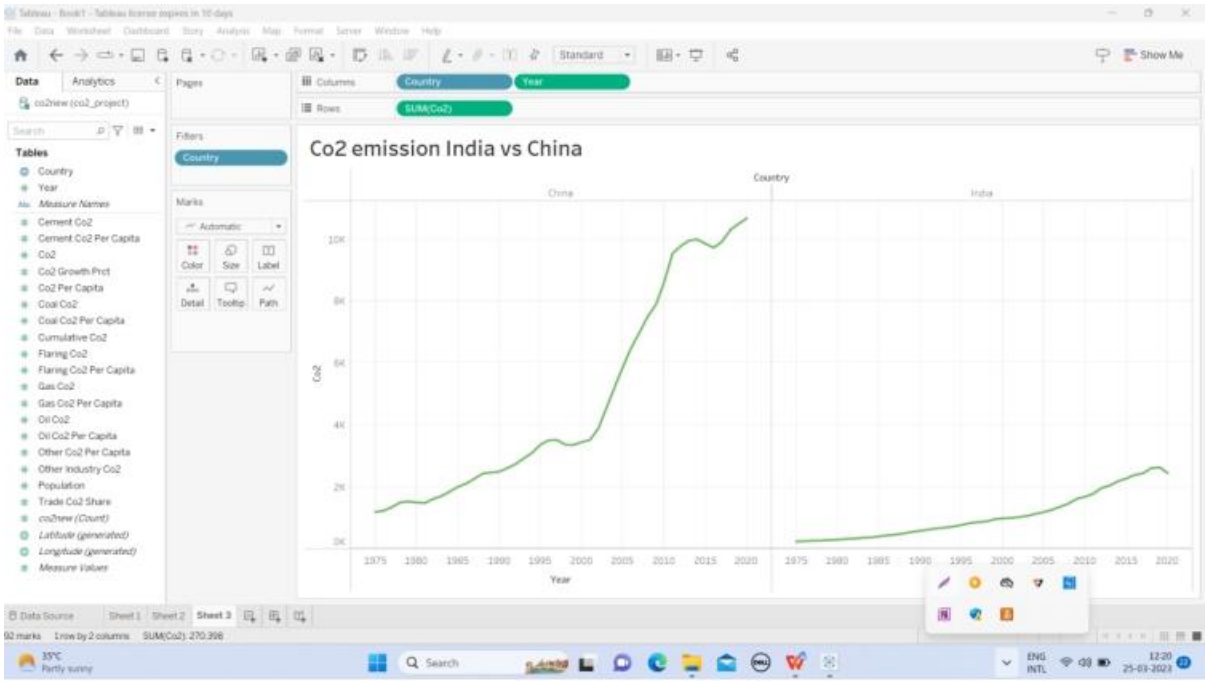
Total Co2 Emission by top 50 countries



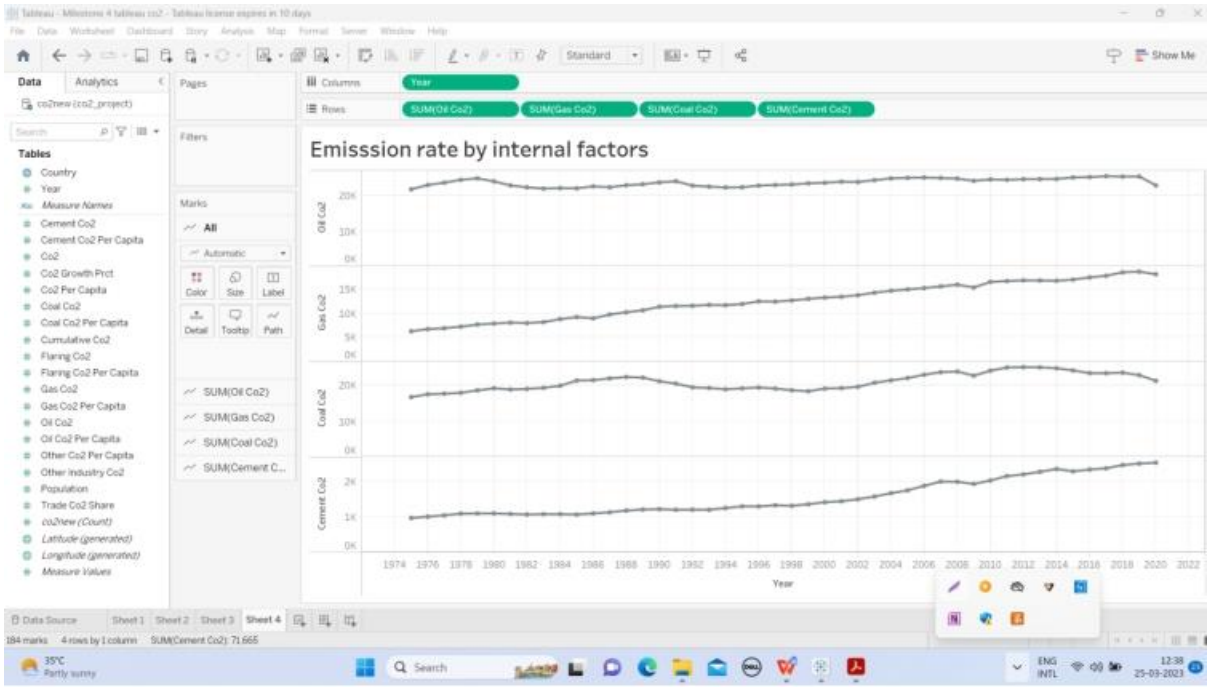
Total co2 emission over the period 1974-2020



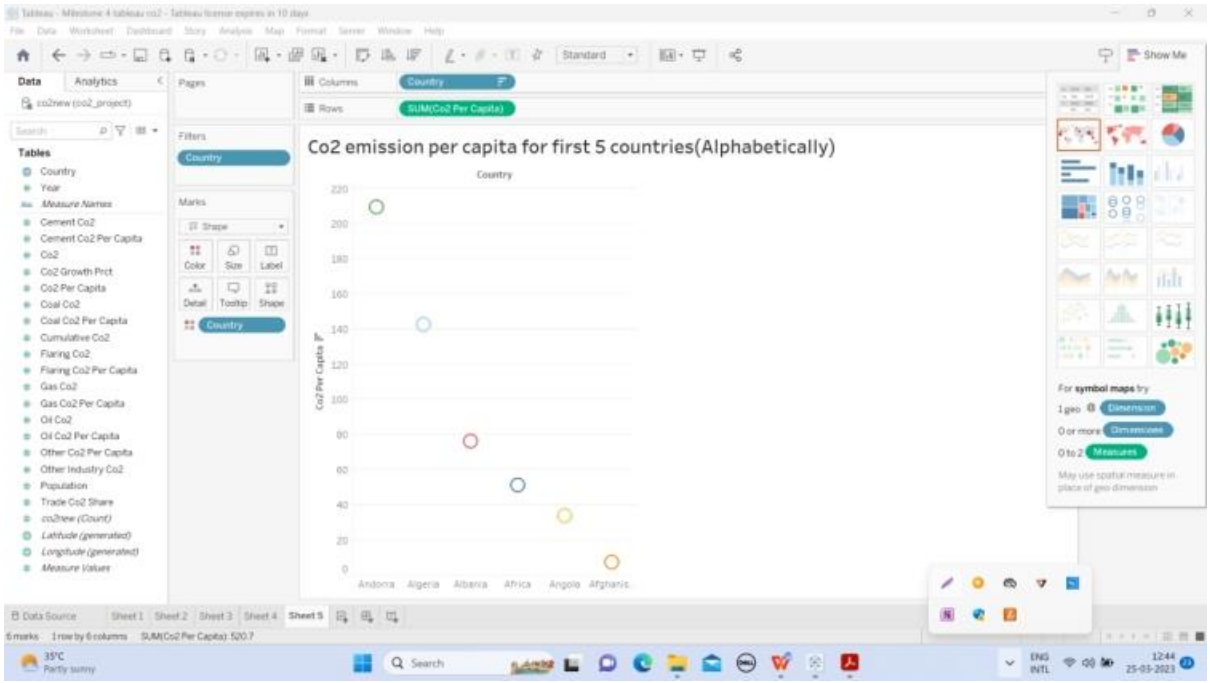
Comparison view of Co2 emission by India and China



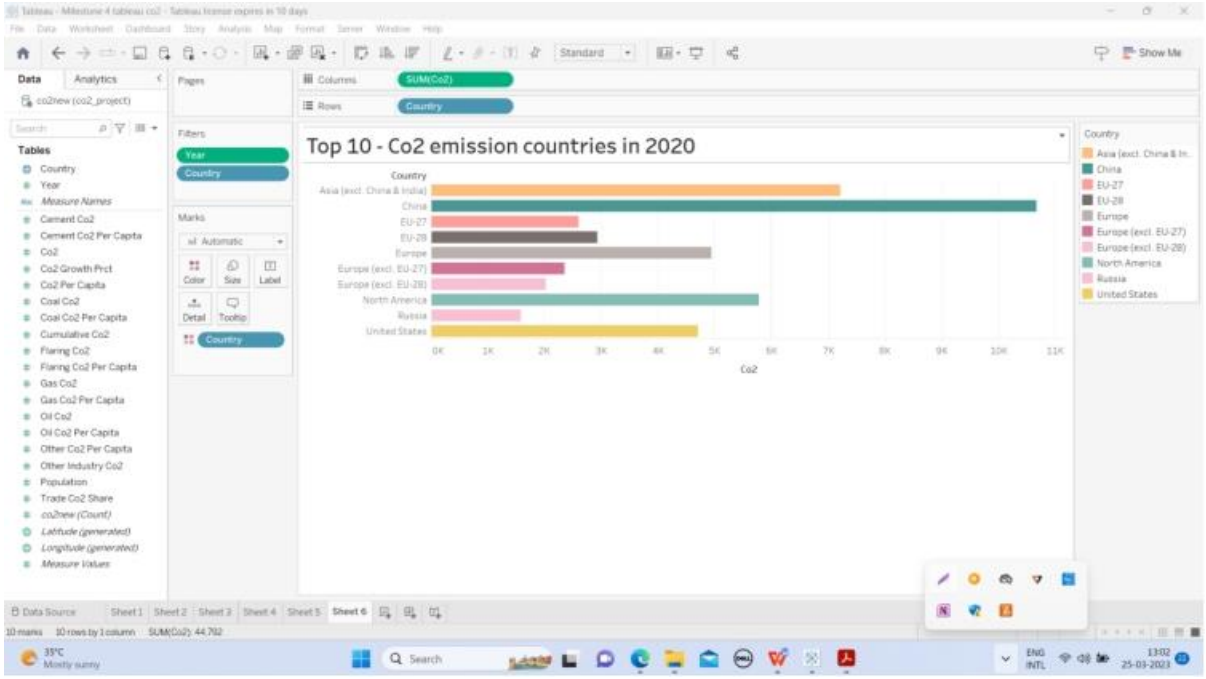
Emission rate by various internal factors



Co2 emission per capita for first 5 countries (Alphabetically)



Top 10 countries in co2 emission in 2020



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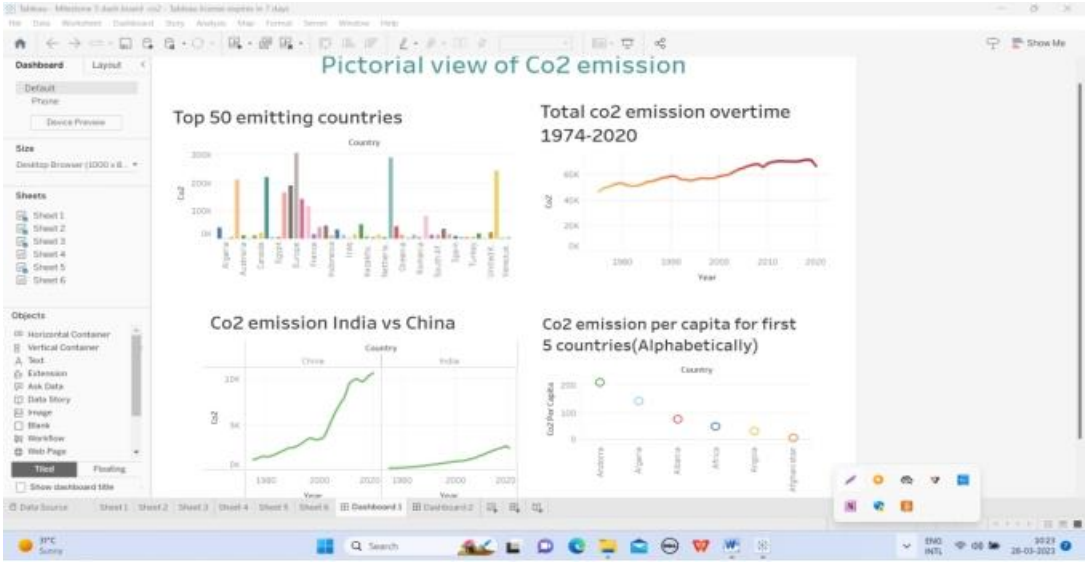
Milestone 5:
Creation of Dashboards

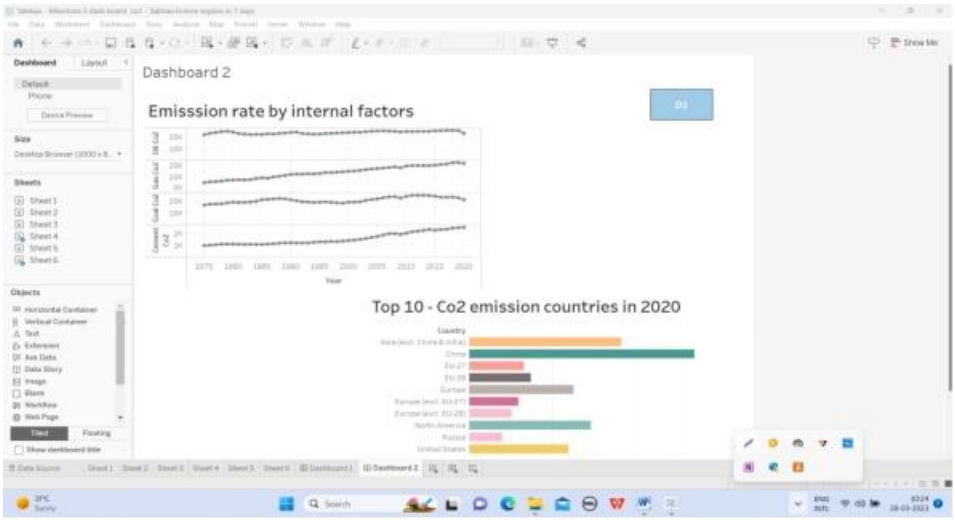
Milestone 5: Creating the Dashboards using Tableau

We created the following two Dashboards

1. Full pictorial view of dash boards related to co2 emission.



2. A Dashboard is charted for the emission of co2 by various internal factors and top 10 countries regarding highest c02 emission



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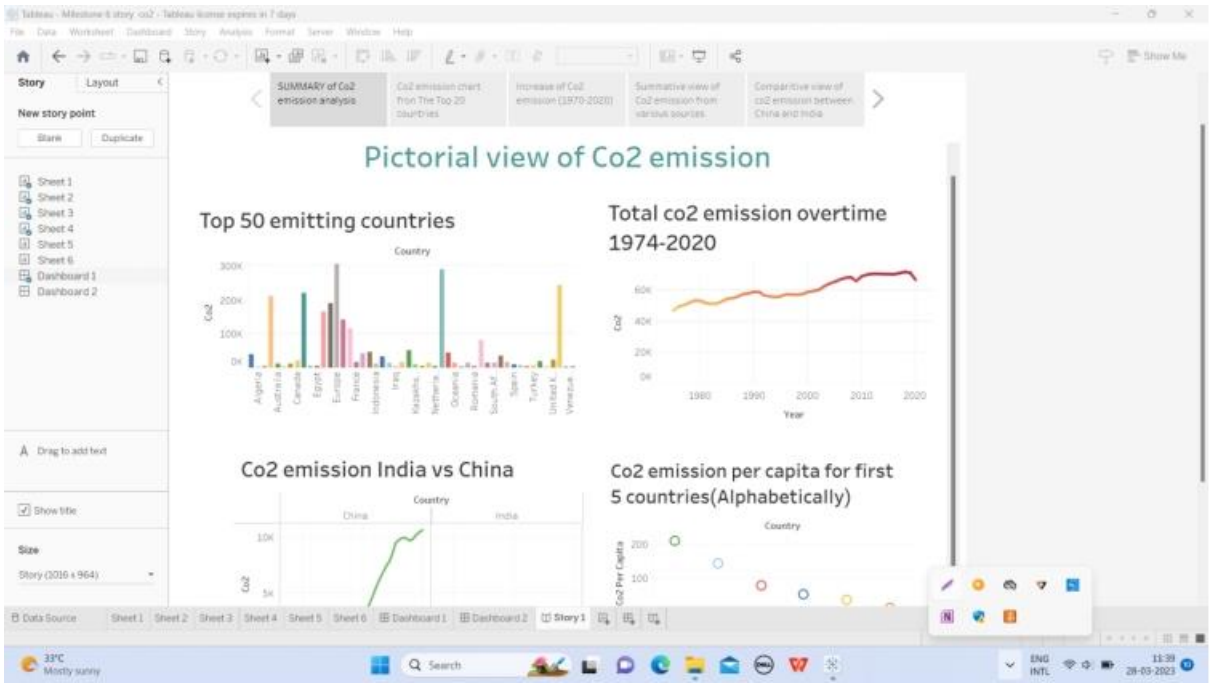
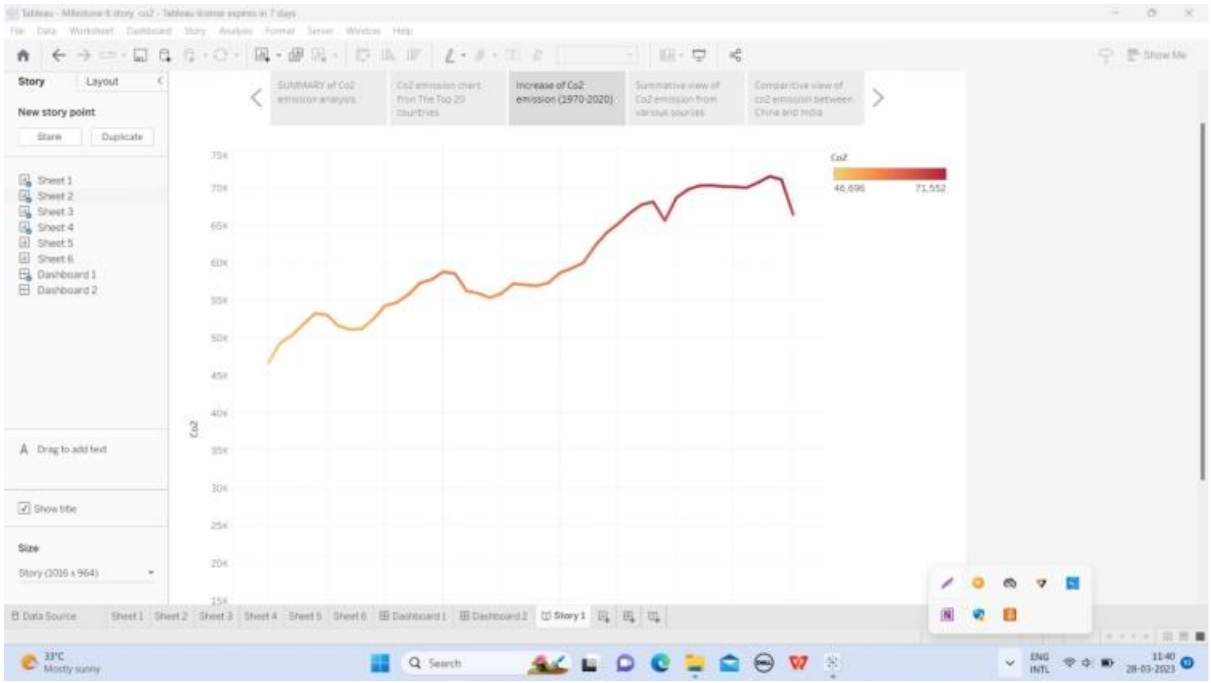
Milestone 6:
Creating story for World Population

Milestone 6: Creation of story using dashboards for co2 emission

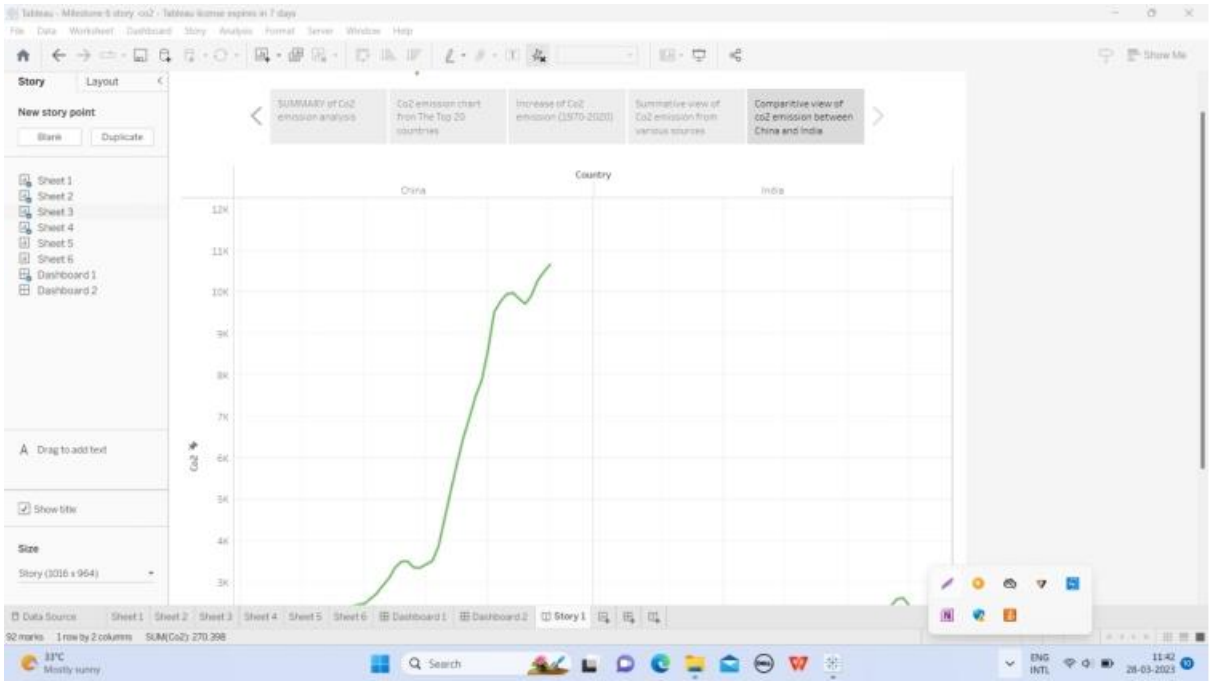
1. The story slide of Co2 emission with a summary



2. Increase of Co2 emission over the years 1970-2020 is given in the following slide.



3. The Comparison chart of co2 emission between China and India.



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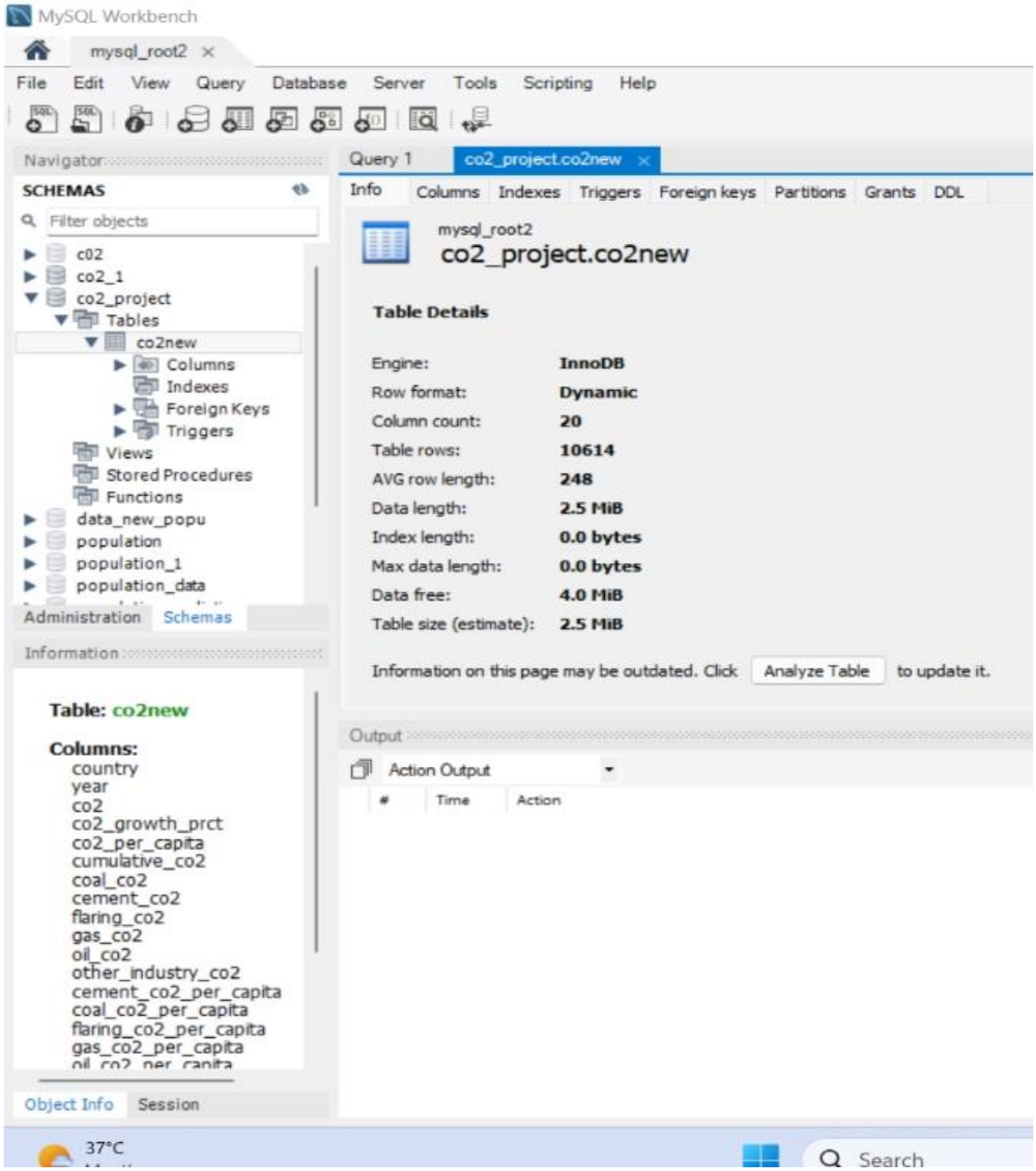
Milestone 7: Performance Testing for population

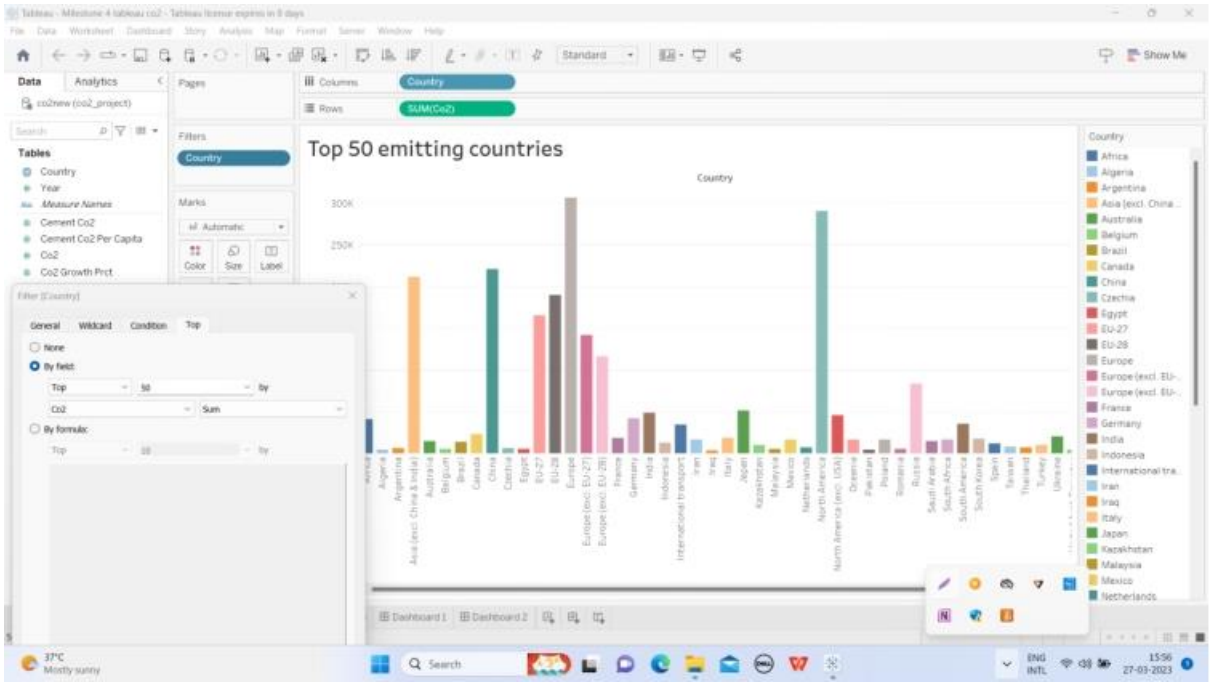
Milestone 7: Performance Testing for Co2 emission
Activity 1: Amount of Data Rendered to DB

Solution 1: The database schema for Co2 emission with columns and indexes are stored.



Solution 2:

The usage of filters in Co2 emission data is given in the following picture. Here we used the filters option to select the Top 50 countries.



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