


Milestone 1: Empathy map creation

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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.


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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.

Says

What have we heard them say?
What can we imagine them saying?

Type your heading...

Population will not be affected by the pandemic

Over 100 people are suffering from the pandemic

The global economy is in a state of crisis

Many people are losing their jobs

Many people are struggling to pay their bills

Many people are struggling to find food

Many people are struggling to find shelter

Many people are struggling to find healthcare

Many people are struggling to find education

Many people are struggling to find employment

Many people are struggling to find housing

Many people are struggling to find transportation

Many people are struggling to find communication

Many people are struggling to find entertainment

Many people are struggling to find social interaction

Many people are struggling to find love

Many people are struggling to find family

Many people are struggling to find friends

Many people are struggling to find community

Many people are struggling to find meaning

Many people are struggling to find purpose

Many people are struggling to find happiness

Many people are struggling to find fulfillment

Many people are struggling to find peace

Many people are struggling to find joy

Many people are struggling to find hope

Many people are struggling to find faith

Many people are struggling to find love

Many people are struggling to find family

Many people are struggling to find friends

Many people are struggling to find community

Many people are struggling to find meaning

Many people are struggling to find purpose

Many people are struggling to find happiness

Many people are struggling to find fulfillment

Many people are struggling to find peace

Many people are struggling to find joy

Many people are struggling to find hope

Many people are struggling to find faith

Thinks

What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?

Family, friends, and community are important to me

I want to be able to take care of my family

I want to be able to provide for my family

I want to be able to support my community

I want to be able to help others in need

I want to be able to make a difference in the world

I want to be able to live a meaningful life

I want to be able to find purpose in my life

I want to be able to find happiness in my life

I want to be able to find fulfillment in my life

I want to be able to find peace in my life

I want to be able to find joy in my life

I want to be able to find hope in my life

I want to be able to find faith in my life

I want to be able to find love in my life

I want to be able to find family in my life

I want to be able to find friends in my life

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I want to be able to find purpose in my life

I want to be able to find happiness in my life

I want to be able to find fulfillment in my life

I want to be able to find peace in my life

I want to be able to find joy in my life

I want to be able to find hope in my life

I want to be able to find faith in my life

Does

What behavior have we observed?
What can we imagine them doing?

Population will not be affected by the pandemic

Over 100 people are suffering from the pandemic

The global economy is in a state of crisis

Many people are losing their jobs

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Many people are struggling to find peace

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Many people are struggling to find faith

Feels

What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?

Family, friends, and community are important to me

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I want to be able to help others in need

I want to be able to make a difference in the world

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I want to be able to find faith in my life









Milestone 2: Data Collection & Extraction from Database

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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.

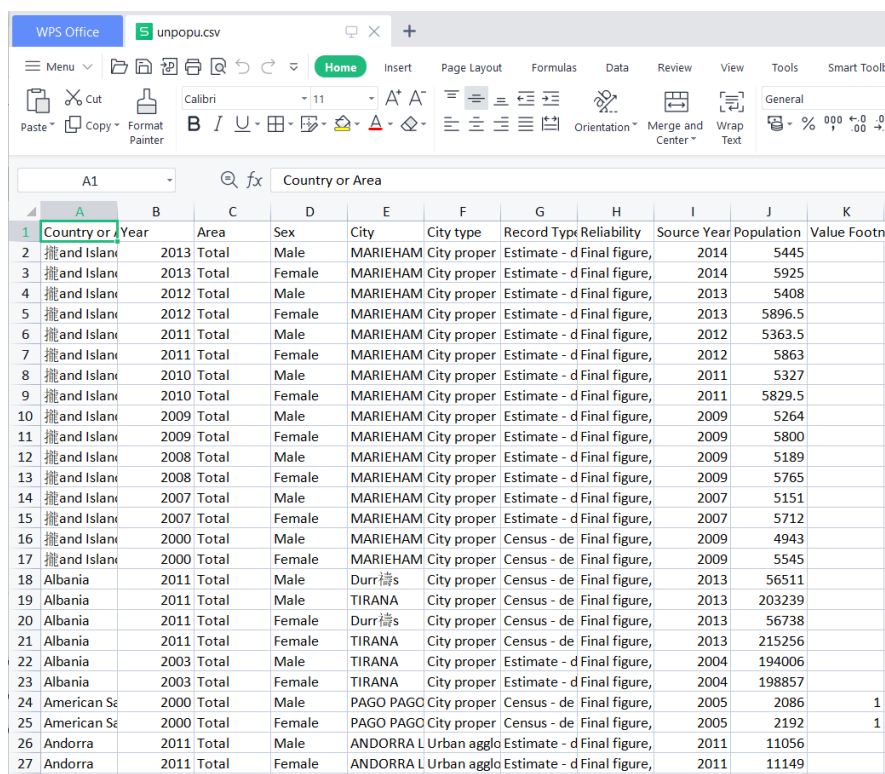
Activity 1: Collect the dataset

Please use the link to download the dataset:

https://drive.google.com/file/d/1NRrQhbZ8KuzpkvXl9C6MBzFrXg2sE-J6/view?usp=share_link

Solution:

We collected the data set



The screenshot shows a WPS Office spreadsheet with a dataset of population statistics. The data is organized into columns: Country or Area, Year, Area, Sex, City, City type, Record Type, Reliability, Source Year, Population, and Value Footn. The data includes entries for various countries and regions, such as Albania, American Samoa, and Andorra, with population figures for different years and categories.

	A	B	C	D	E	F	G	H	I	J	K
	Country or Area	Year	Area	Sex	City	City type	Record Type	Reliability	Source Year	Population	Value Footn
1	Albania	2013	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2014	5445	
2	Albania	2013	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2014	5925	
3	Albania	2012	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2013	5408	
4	Albania	2012	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2013	5896.5	
5	Albania	2011	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2012	5363.5	
6	Albania	2011	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2012	5863	
7	Albania	2010	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2011	5327	
8	Albania	2010	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2011	5829.5	
9	Albania	2009	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2009	5264	
10	Albania	2009	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2009	5800	
11	Albania	2008	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2009	5189	
12	Albania	2008	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2009	5765	
13	Albania	2007	Total	Male	MARIEHAM	City proper	Estimate - d	Final figure,	2007	5151	
14	Albania	2007	Total	Female	MARIEHAM	City proper	Estimate - d	Final figure,	2007	5712	
15	Albania	2000	Total	Male	MARIEHAM	City proper	Census - de	Final figure,	2009	4943	
16	Albania	2000	Total	Female	MARIEHAM	City proper	Census - de	Final figure,	2009	5545	
17	Albania	2011	Total	Male	Durrës	City proper	Census - de	Final figure,	2013	56511	
18	Albania	2011	Total	Male	TIRANA	City proper	Census - de	Final figure,	2013	203239	
19	Albania	2011	Total	Female	Durrës	City proper	Census - de	Final figure,	2013	56738	
20	Albania	2011	Total	Female	TIRANA	City proper	Census - de	Final figure,	2013	215256	
21	Albania	2003	Total	Male	TIRANA	City proper	Estimate - d	Final figure,	2004	194006	
22	Albania	2003	Total	Female	TIRANA	City proper	Estimate - d	Final figure,	2004	198857	
23	American Samoa	2000	Total	Male	PAGO PAGO	City proper	Census - de	Final figure,	2005	2086	1
24	American Samoa	2000	Total	Female	PAGO PAGO	City proper	Census - de	Final figure,	2005	2192	1
25	Andorra	2011	Total	Male	ANDORRA L'Urban agglomeration		Estimate - d	Final figure,	2011	11056	
26	Andorra	2011	Total	Female	ANDORRA L'Urban agglomeration		Estimate - d	Final figure,	2011	11149	

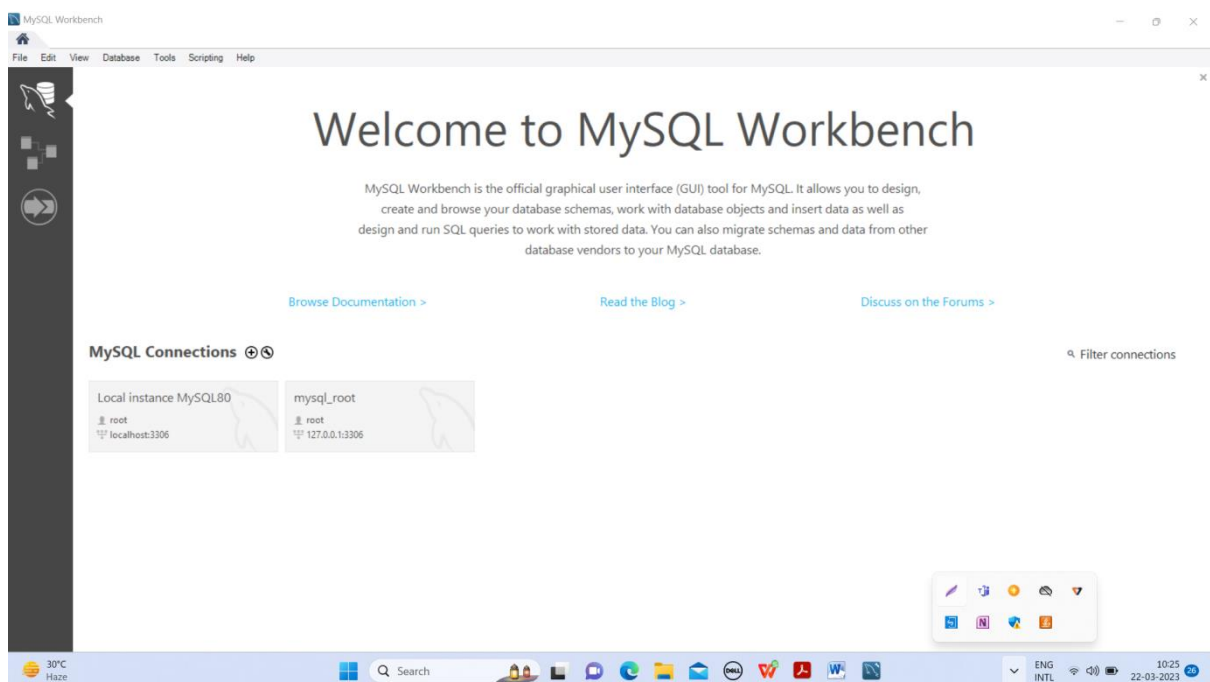
Activity 2: Storing Data in DB & Perform SQL Operations

Explanation video link:

<https://drive.google.com/file/d/1uUaPt7PE3t-jPk4txwyGsbVDkcXzDwOl/view?usp=sharing>

Solution:

1. We stored the un population data
2. SQL downloaded and installed



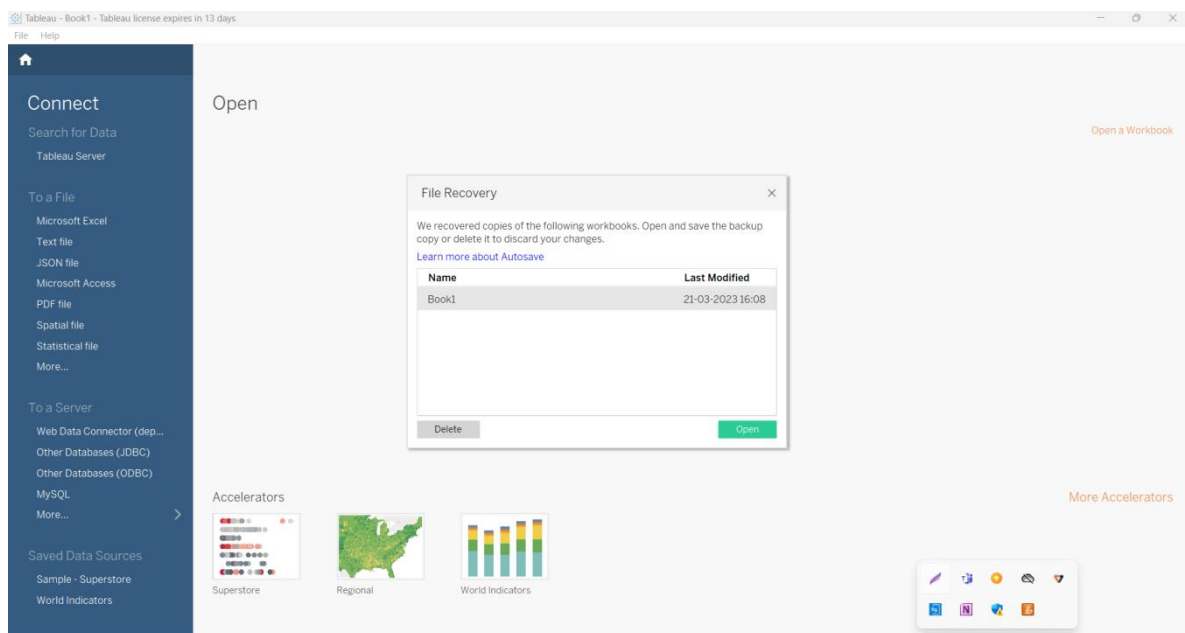
Activity 3: Connect DB with Tableau

Explanation video link:

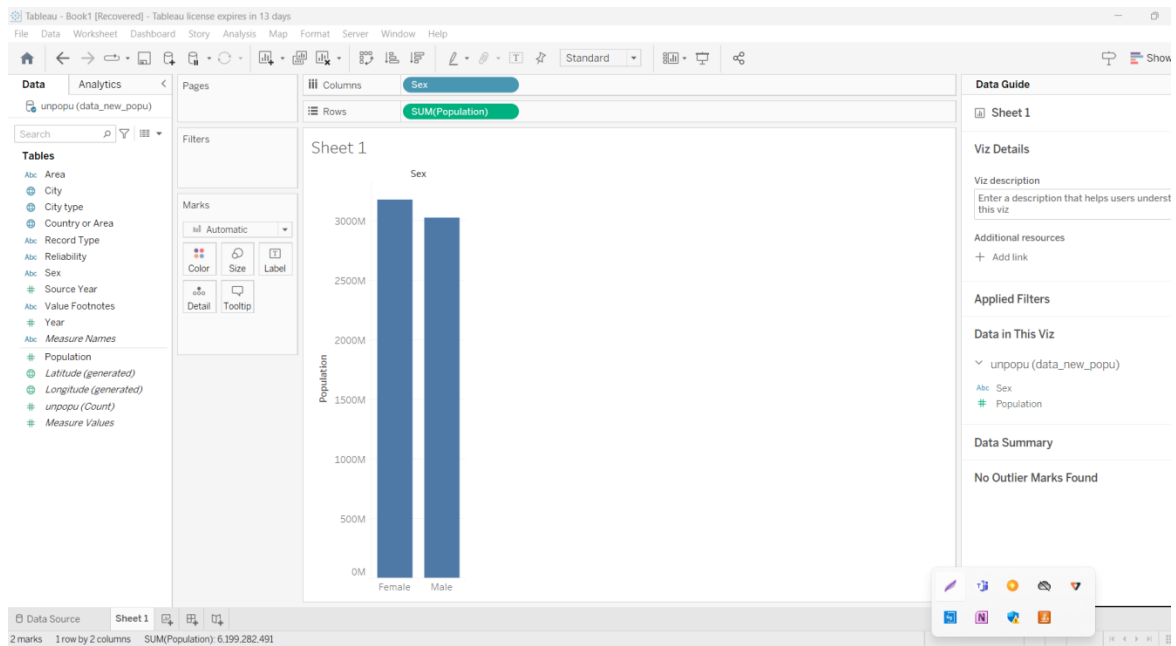
https://drive.google.com/file/d/11uLSwvMxLVtZdHCkvdSWfRZjriMvaQJB/view?usp=share_link

Solution:

We installed tableau and workbench.



We open our UN population file and draw the first picture.



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. A gender based (female/male) distribution is given.**
- 3. The data consists of years around 2010-2020.**
- 4. The numbers related to the population in various countries around world like Albania, America, Australia etc.**

Milestone 4:

Data Visualization

Milestone 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.

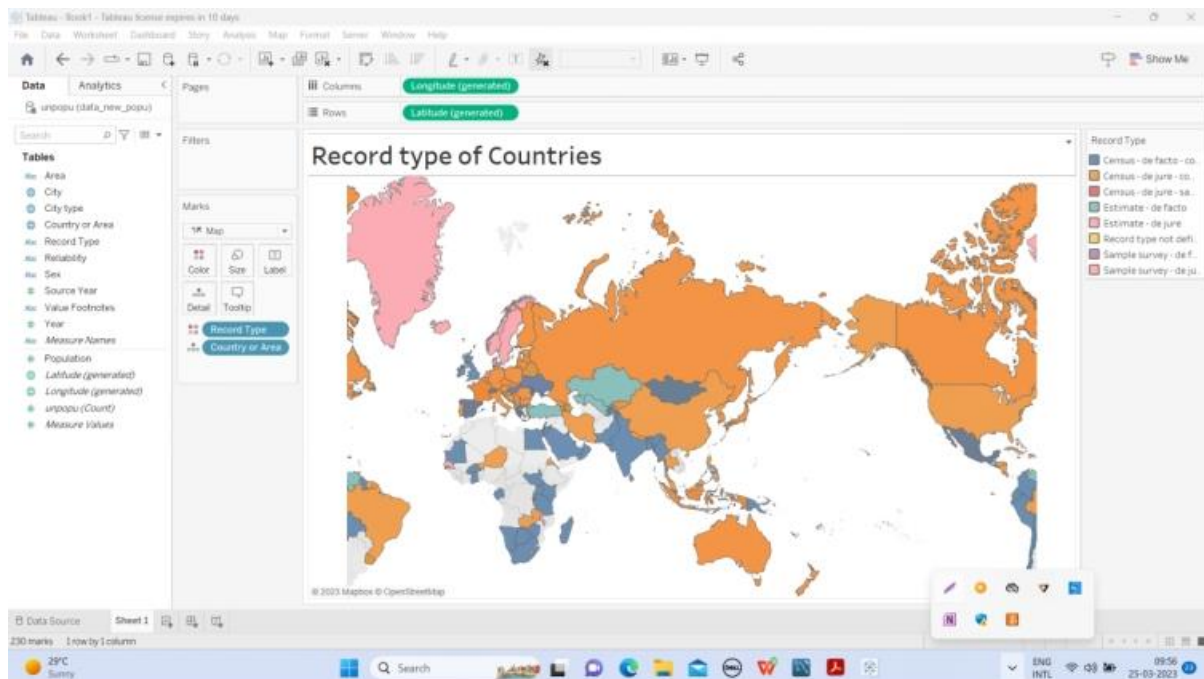
Activity 1: No of Unique Visualizations

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 population growth in the cities, include bar charts, line charts, heat maps, scatter plots, pie charts, Maps etc. These visualizations can be used to compare performance, track changes over time, show distribution, and relationships between variables

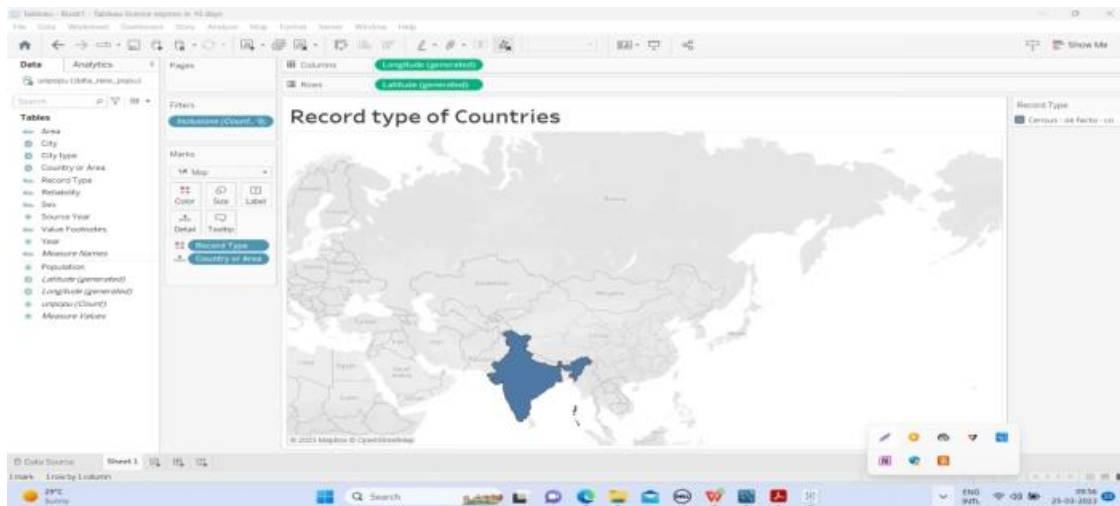
Activity 1.1: Population records by type of Countries

Solution:

A graph related to population of various countries is pictured with tableau



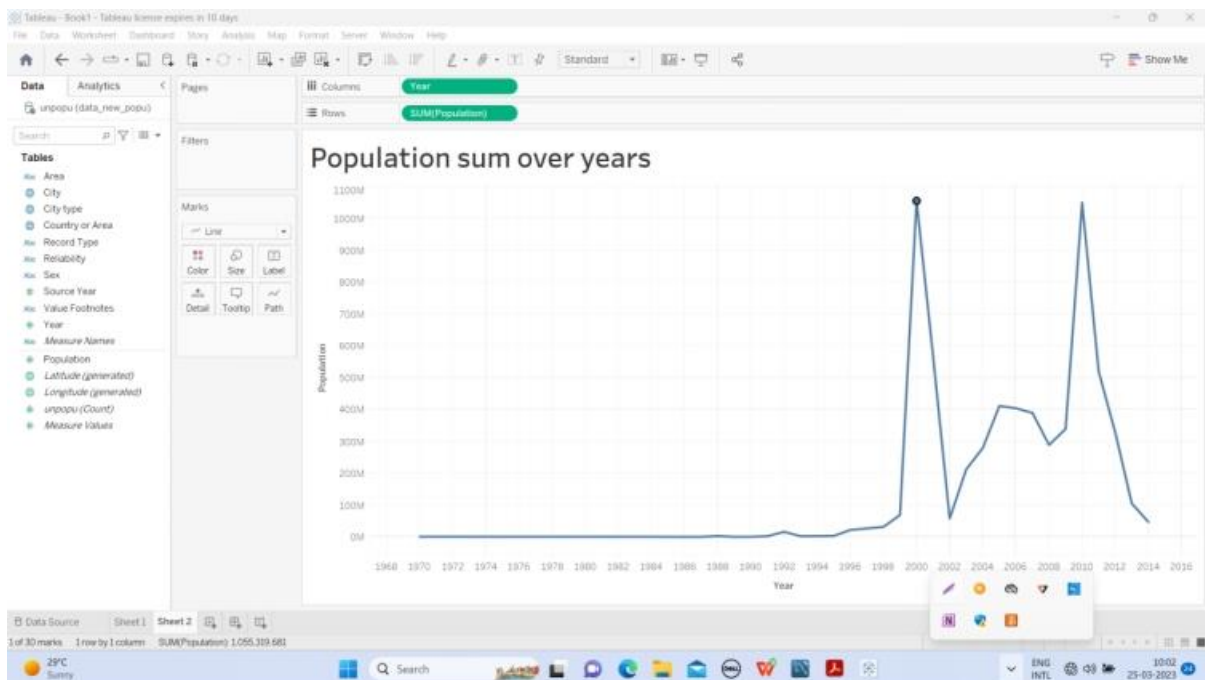
Our India map is specified in the following graph.



Activity 1.2: Population trends over the Year

Solution:

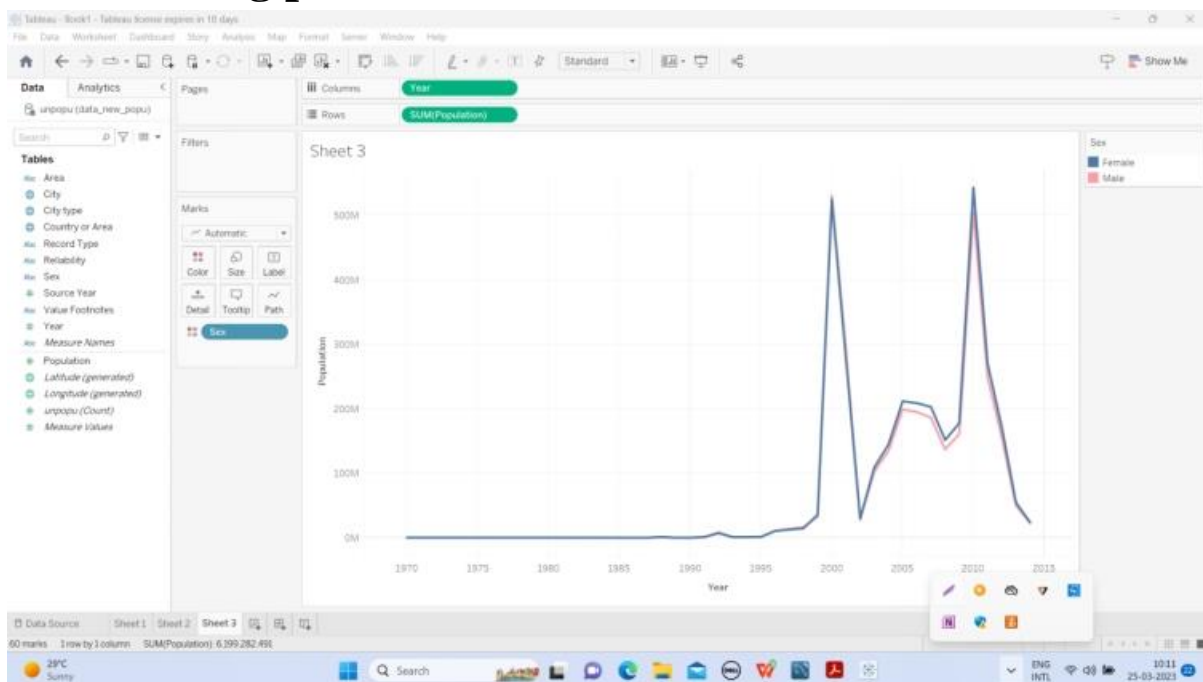
The map of population over the years is drawn from 1970 to 2014. The highest peak at 2010 and 2014 are marked.



Activity 1.3: Population trends over the years by sex

Solution:

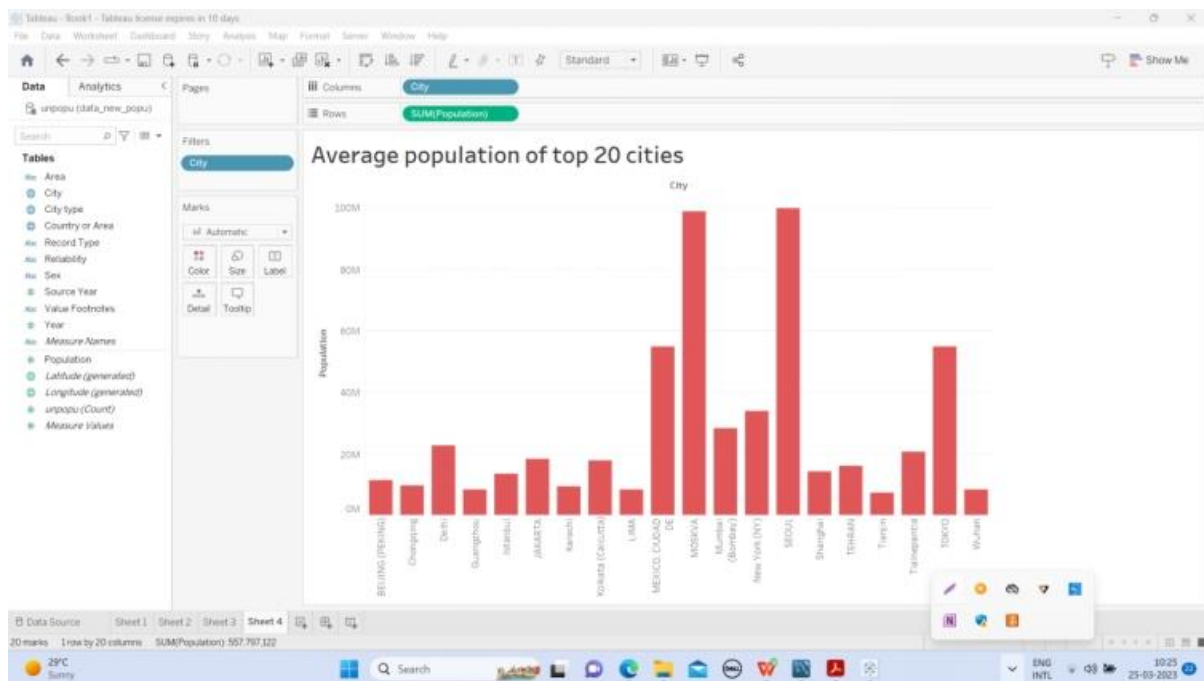
The gender wise population over the years is mentioned in the following picture.



Activity 1.4: Cities with highest average populations

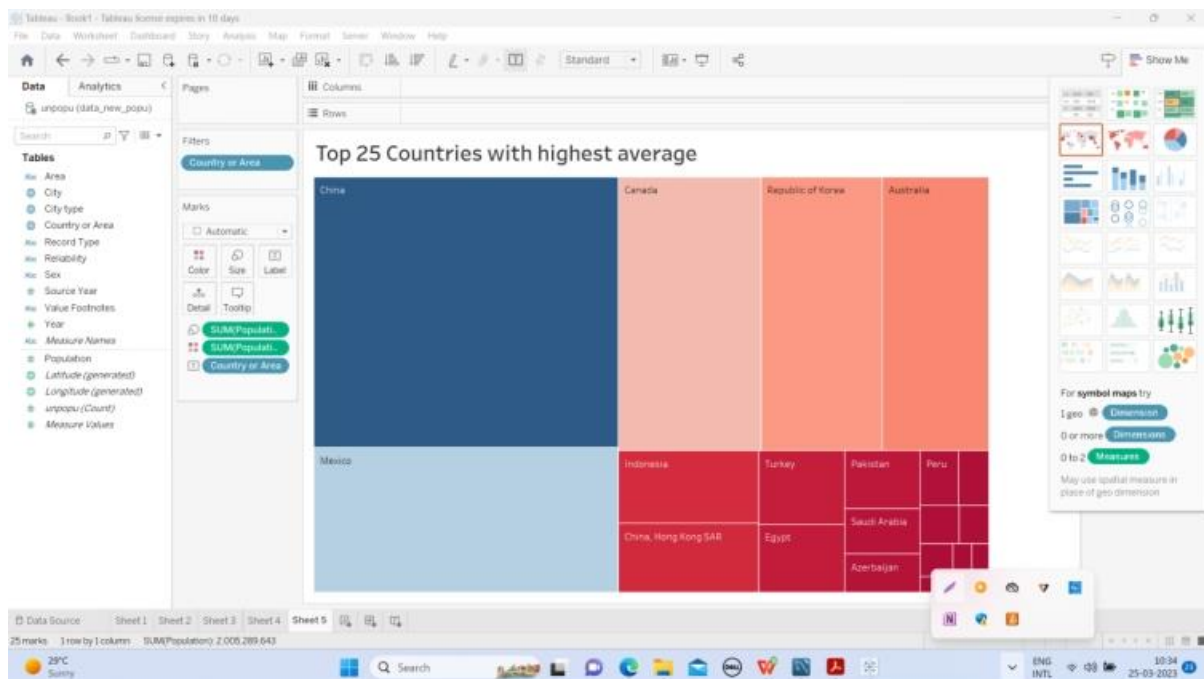
Solution:

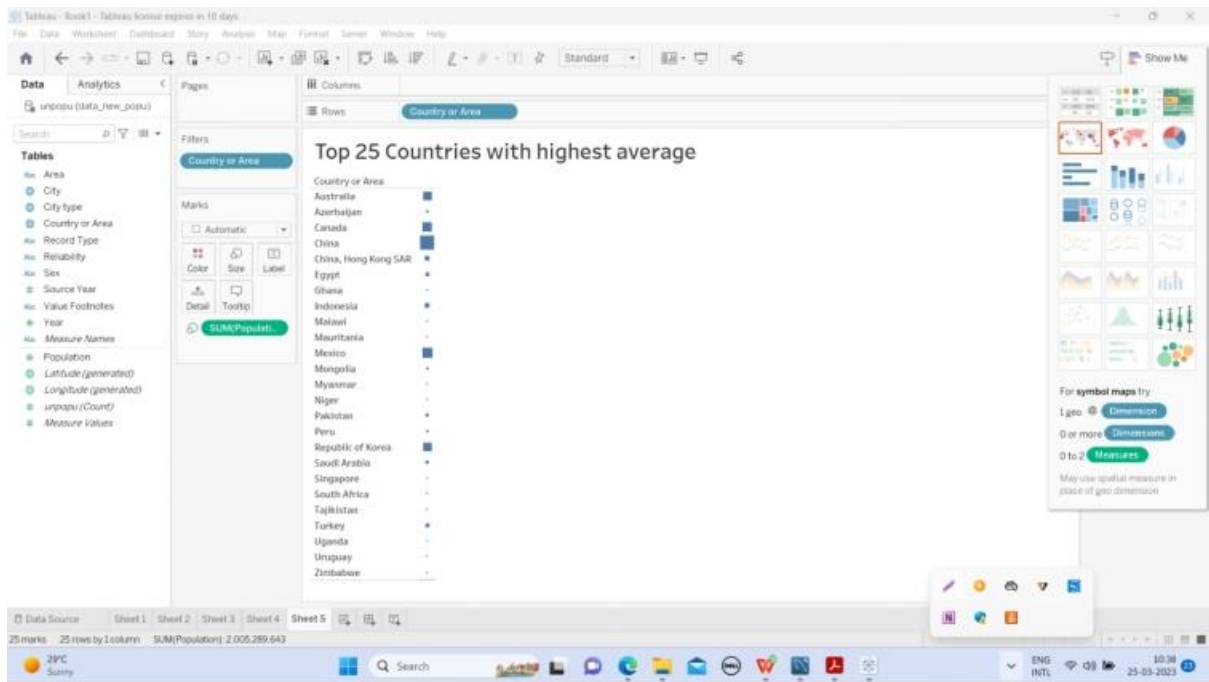
The highest average population for top 20 cities are drawn in the following picture. (Moskva and Seoul are having highest averages)



Activity 1.5: Countries with highest average population from 2000-2014

Solution: The map of top 25 countries with highest average population is created and presented in stack type and name with size type.



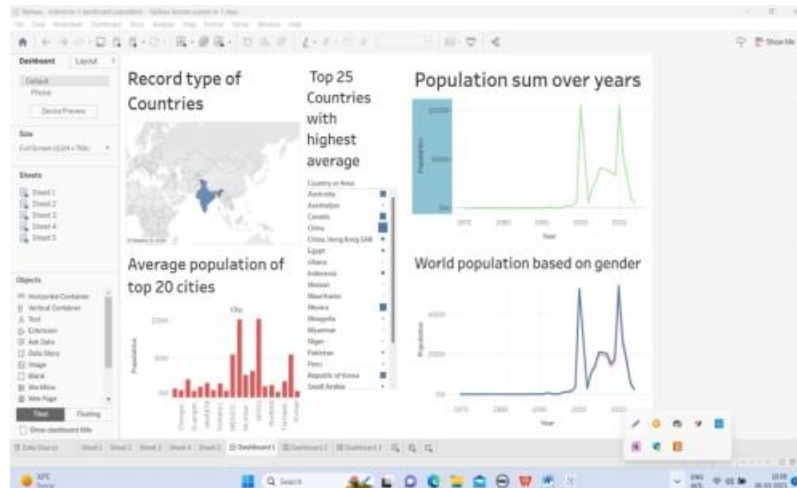


Milestone 5: Creation of Dashboards

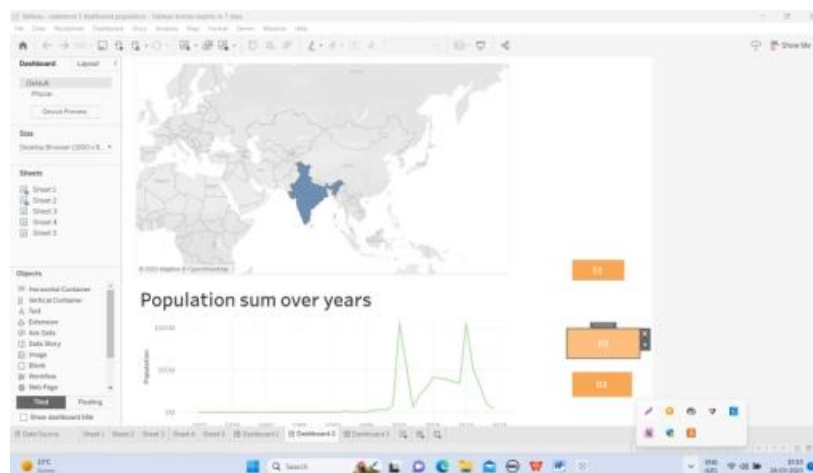
Milestone 5: Creation of Dashboards

We created the following three dash boards

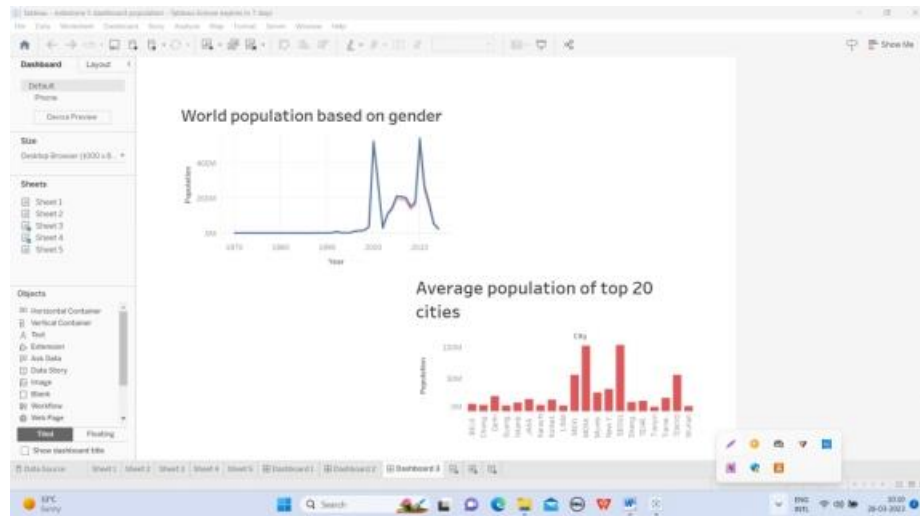
1. Full view of all created sheets



2. Dash boards with navigation keys s1, D1, D3 are created.



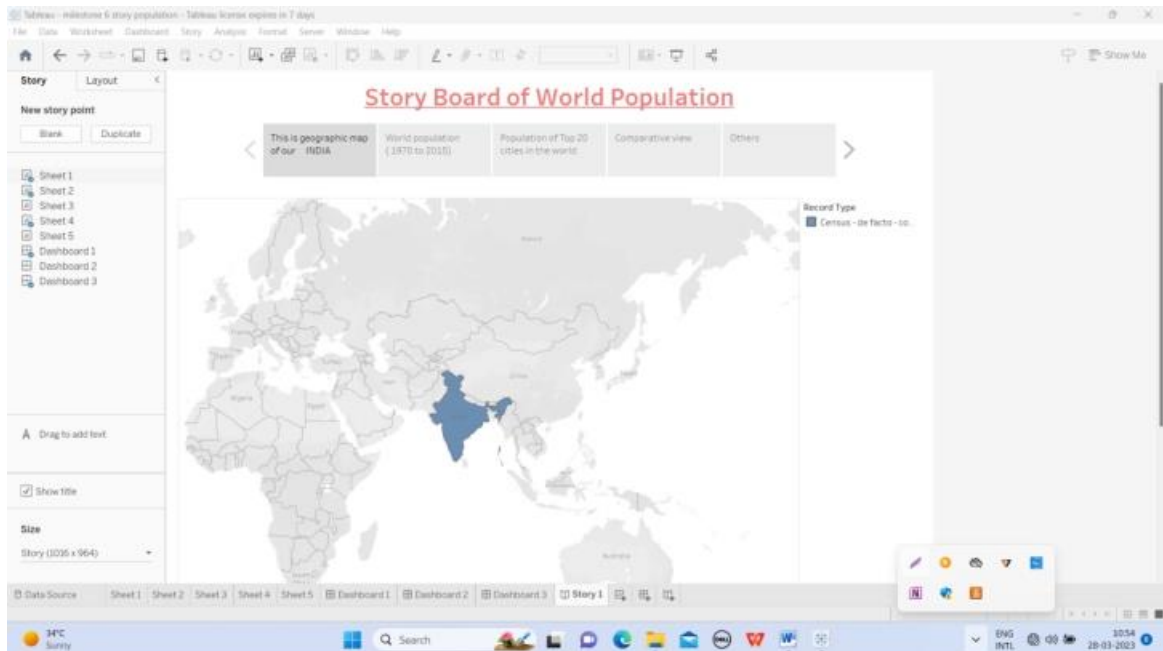
3. World population based on gender and Average populaion of Top 20 cities-dashboard created.



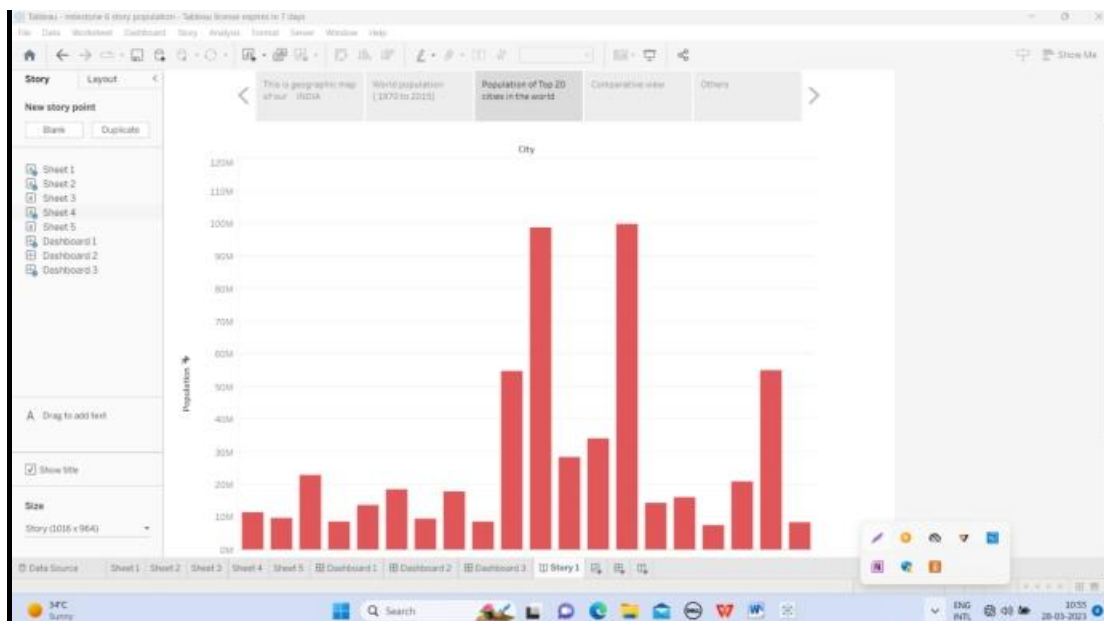
Milestone 6:
Creating story for World
Population

Milestone 6: Creating story for World Population

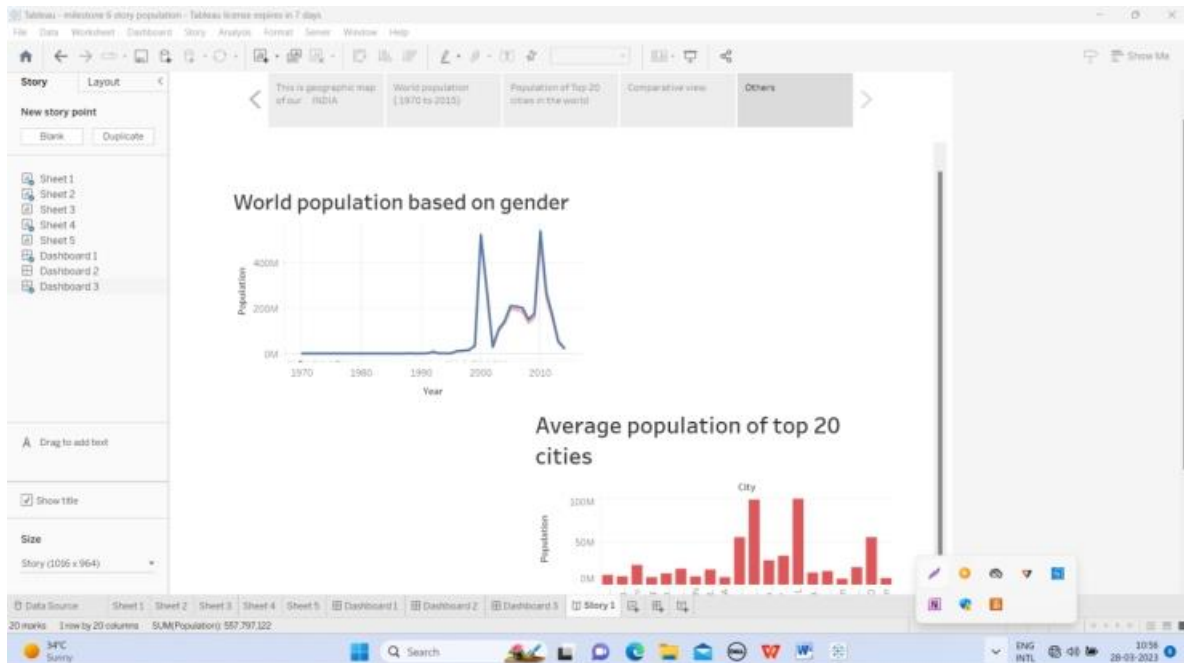
1. The First Dashboard shows the geographical map of our India.



2. The population of top 20 countries in the world is shown in the dashboard 3 of story 1



3. The dashboard 3(“others”) explains the graph of world population based on gender and average population of top 20 cities



Milestone 7: Performance Testing for population

Milestone 7: Performance Testing for population

Activity 1: Amount of Data Rendered to DB

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

The screenshot displays the MySQL Workbench interface. The 'Navigator' pane on the left shows the 'Schemas' tree with 'data_new_popu' expanded, revealing the 'unpopu' table. The 'Table Details' pane on the right provides information about the 'unpopu' table, including its engine (InnoDB), row format (Dynamic), column count (11), and table size (4.5 MiB). The 'Columns' pane at the bottom left lists the columns: Country or Area, Year, Area, Sex, and City, along with their data types (text, int, text, text, text). The 'Output' pane at the bottom right shows the 'Action Output' tab.

Property	Value
Engine:	InnoDB
Row format:	Dynamic
Column count:	11
Table rows:	26678
AVG row length:	177
Data length:	4.5 MiB
Index length:	0.0 bytes
Max data length:	0.0 bytes
Data free:	4.0 MiB
Table size (estimate):	4.5 MiB

Information on this page may be outdated. Click [Analyze Table](#) to update it.

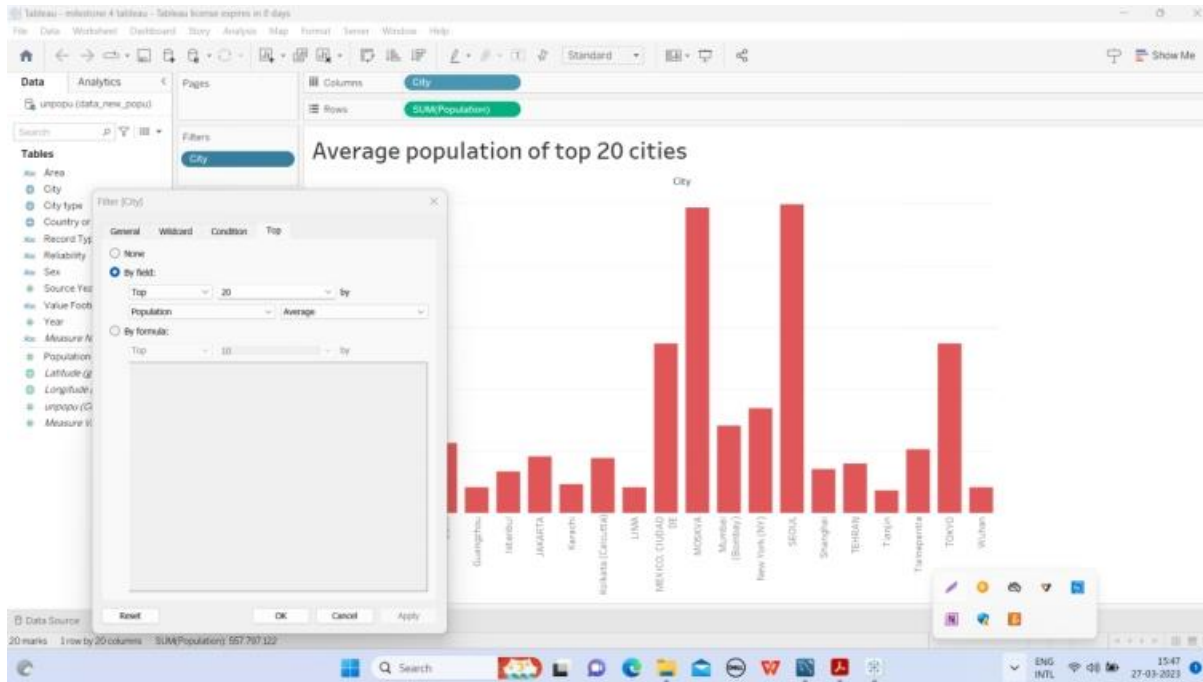
Table: unpopu

Columns:

Column Name	Data Type
Country or Area	text
Year	int
Area	text
Sex	text
City	text

Solution 2:

The usage of filters in population data is given in the following picture. Here we used the filters option to select the Top 20 cities.



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