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TRACING THE GROWTH OF THE GLOBAL COMMUNITY: A POPULATION FORECASTING ANALYSIS

A PROJECT REPORT SUBMITTED BY

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1.INTRODUCTION:

The world most regions and countries are experiencing unprecedentedly rapid change. After centuries very slow growth, the world population reached one billion in 1800. Around 2070, the world's population will be 10 times larger than 1800.

1.1 OVERVIEW:

Population growth is the increase in number of humans on earth. For most of human history our population size was relatively stable. But with innovation and industrialization, energy, food, water and medical care became more available and reliable.


1.2 PURPOSE:

- Understanding the population growth is important for predicting, managing, monitoring and eradicating pest and disease outbreaks.
- The main purpose of this project is to spread out knowledge to the generals about what can be the situation or the economy when there is population control or growth over the geography.
- Thus, people should be aware about this topic so that a wide choice or a quick action can be done to make India a developing country to a developed country.

PROBLEM DEFINITION AND DESIGN THINKING:


2.1 EMPATHY MAP:

Template



Empathy map canvas

Use this framework to empathize with a customer, user, or any person who is affected by a team's work. Document and discuss your observations and note your assumptions to gain more empathy for the people you serve.


Originally created by Dave Grey at 

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TRACING THE GROWTH OF THE GLOBAL COMMUNITY:

A POPULATION FORECASTING ANALYSIS


Specify the Business problem
Business requirements
Literature Survey
Social or Business impact

**WHO are we empathizing with?**


- 1.The people who are unaware of the current population growth.
- 2.They are in situation in which population is more than 3 times larger and expected to increase by nearly 2 billion in next 30 years.
3. (a) They are the members of the global community
- (b) They need to understand the effects of overpopulation

**What do they HEAR?**


We hear people saying that the population reached 8 billion in 2022 from an estimated 2.5 billion people in 1950, adding 1 billion since 2010 and 2 billion since 1998. It expected to peak 10.4 billion in 2080.

**What do they DO?**

- 1.Raising the status of women.
- 2.Minimum age of marriage.
- 3.Spread of education.

**What do they SEE?**

- 1.They see population growth in gender
2. We see over exploitation of resources and rapid increase in population and demographic changes
3. They see increasing number of people surviving to reproductive age, increasing the human lifespan, increasing urbanization and accelerating migration, increase fertility rate.

**What do they SAY?**

They say that the hungry world cannot be fed until and unless the growth of its resources and population come into balance.

GOAL

- 1.(a)Try to follow a good family scheme "One is good, two is enough".
- (b) To improve the infrastructure and strategies through which the cities could manage the population.
2. By understanding the population growth trends and demographics, a business can make more informed decisions about where to invest resources and expand operations.
3. By the statistical data.

What do they THINK and FEEL?

PAINS

They fear about the family's next generation.
Financial burden.
Scarcity on necessary requirement.
Unemployment.

Overpopulation

Competition

GAINS

They want employment.
They need peaceful and pollution free environment.
They dream to lead a happy and healthy life.


Social Impact

Business Impact

To maintain Population growth

Literature Survey Sources:




- 1.Academic Journals
- 2.Industry Reports
- 3. Online Articles



Need some inspiration?

Here is featured version of this template to kickstart your work.

[Open example](#)



2.2 BRAINSTORMING:

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare
1 hour to collaborate
2-8 people recommended

Show template feedback

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

Get the goal
Think about the problem you're focusing on solving in the brainstorming session.

Learn how to use the facilitation tools
Use the Facilitation Supporter to save a happy and useful session.

Open article

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

problem
increase in population growth in global community

Key rules of brainstorming
To run a smooth and productive session

- Step in step
- Encourage wild ideas
- Defers judgment
- Listen to others
- Go for volume
- If possible, be visual

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

ANANTHASAYANAM M

- 1. Global Population is expected to increase 2 billion in the next 30 years
- 2. Rapid increase in urbanization and accelerating migration
- 3. Impact on environment and resources
- 4. Due to rapid increase in natality

UNALM

- 1. Impact on environment and resources
- 2. Major changes in the fertility rate leads to over population growth
- 3. Impact on environment and resources
- 4. Due to rapid increase in natality

HARDHILA

- 1. The dramatic growth has been increasing urbanization and accelerating migration
- 2. Major changes in the fertility rate leads to over population growth
- 3. Impact on environment and resources
- 4. Due to rapid increase in natality

DHARANIS

- 1. Due to rapid increase in natality
- 2. Major changes in the fertility rate leads to over population growth
- 3. Impact on environment and resources
- 4. Due to rapid increase in natality

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

- 1. World's Population is expected to increase 2 billion in the next 30 years
- 2. This dramatic growth has been increasing urbanization and accelerating migration
- 3. Major changes in the fertility rate leads to over population growth
- 4. Impact: Increasing the extraction of resources from the environment
- 5. Due to rapid increase in natality rate

Prioritize

Your team should all be in the same page about which important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

Due to rapid increase in natality rate.

Impact: Increasing the extraction of resources from the environment.

This dramatic growth has been increasing urbanization and accelerating migration.

World's Population is expected to increase 2 billion in the next 30 years

Major changes in the fertility rate leads to over population growth.

REASON FOR OVERPOPULATION GROWTH

After you collaborate

You can export the result as an image or pdf to share with members of your company who might find it helpful.

Quick actions

- Show the result
Share a link to the result with stakeholders to keep them in the loop about the outcome of the session.
- Export the result
Export a copy of the result as a PNG or PDF to check it out, include it in a report or use it in a presentation.

Keep moving forward

- Strategy blueprint
Define the components of a new idea or strategy.
Open the template
- Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
Open the template
- Strength, weakness, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template

Show template feedback

Need some inspiration?

See a list of ideas and examples of how to use this template in your work.

Open example

10 minutes

20 minutes

30 minutes

40 minutes

50 minutes

60 minutes

70 minutes

80 minutes

90 minutes

100 minutes

110 minutes

120 minutes

130 minutes

140 minutes

150 minutes

160 minutes

170 minutes

180 minutes

190 minutes

200 minutes

210 minutes

220 minutes

230 minutes

240 minutes

250 minutes

260 minutes

270 minutes

280 minutes

290 minutes

300 minutes

310 minutes

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330 minutes

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870 minutes

880 minutes

890 minutes

900 minutes

910 minutes

920 minutes

930 minutes

940 minutes

950 minutes

960 minutes

970 minutes

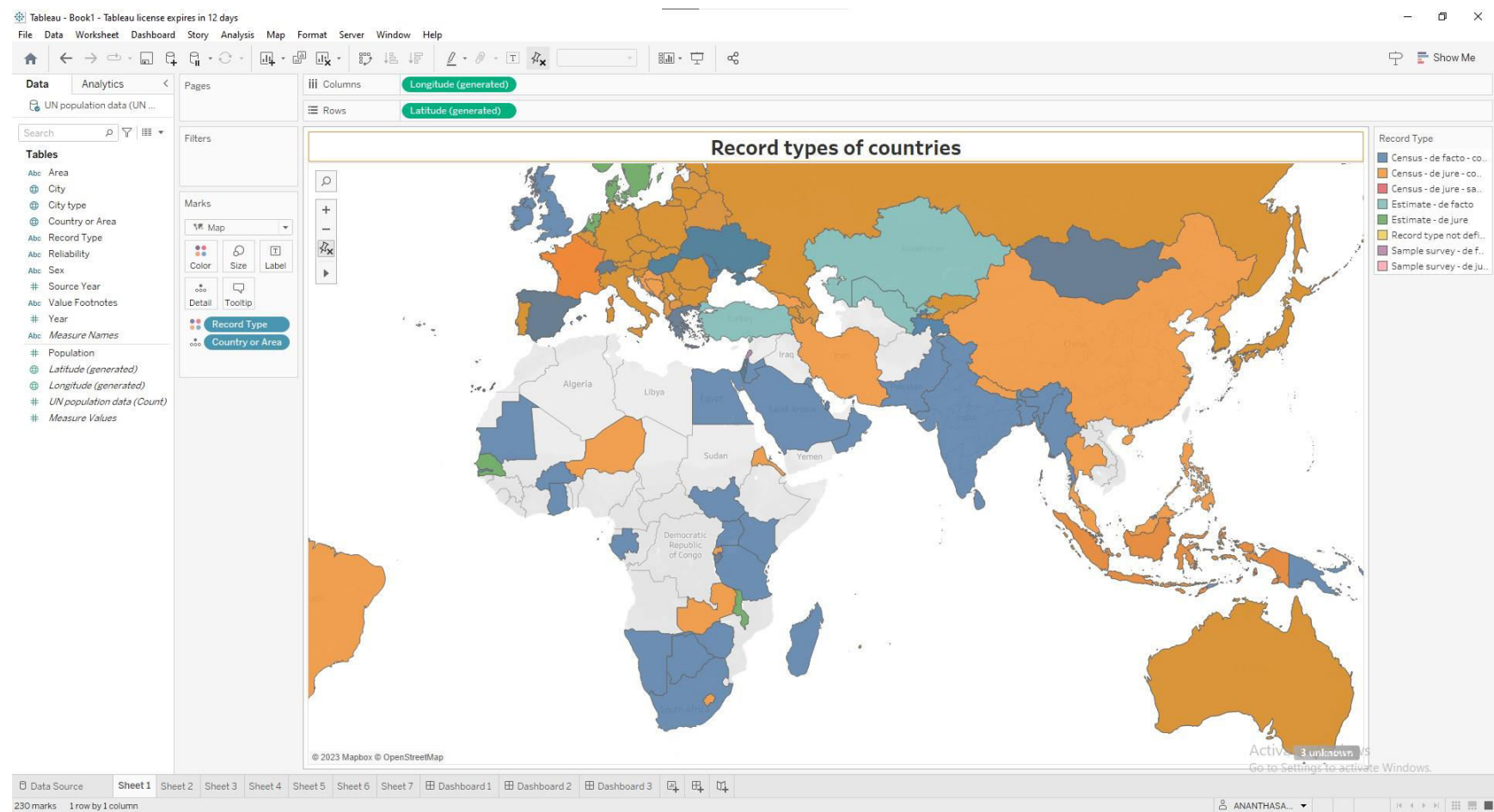
980 minutes

990 minutes

1000 minutes

RESULT:

3.1 DASHBOARD 1 :



Data Analytics

UN population data (UN ...

Search

Tables

- Area
- City
- City type
- Country or Area
- Record Type
- Reliability
- Sex
- Source Year
- Value Footnotes
- Year
- Measure Names
- Population
- Latitude (generated)
- Longitude (generated)
- UN population data (Count)
- Measure Values

Pages

Filters

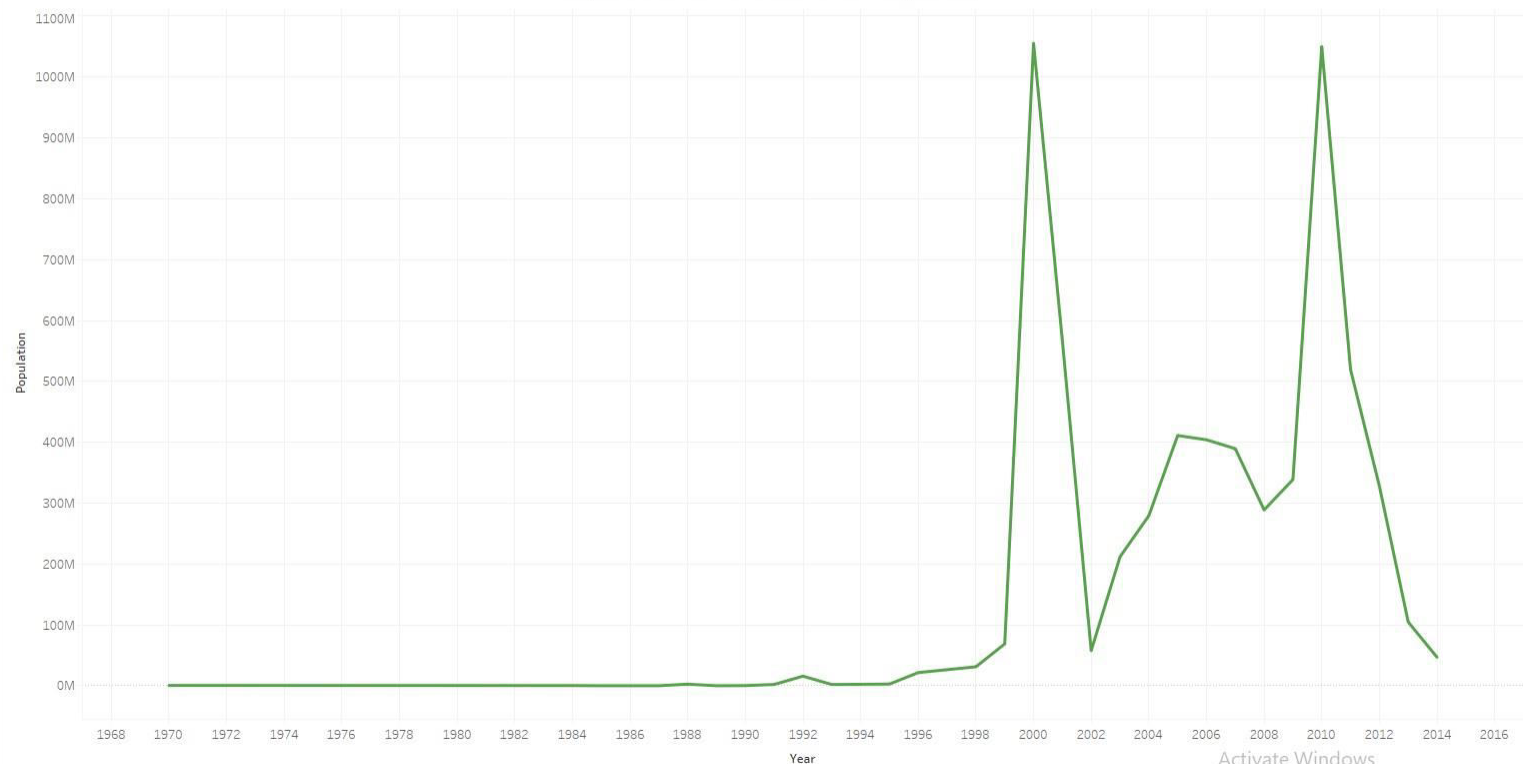
Marks

- Line
- Color
- Size
- Label
- Detail
- Tooltip
- Path

Columns Year

Rows SUM(Population)

Population trends over the years



Activate Windows
Go to Settings to activate Windows.

Format Title and Caption

Title

Shading: None

Border:

Caption

Shading: None

Border: None

Pages

Filters

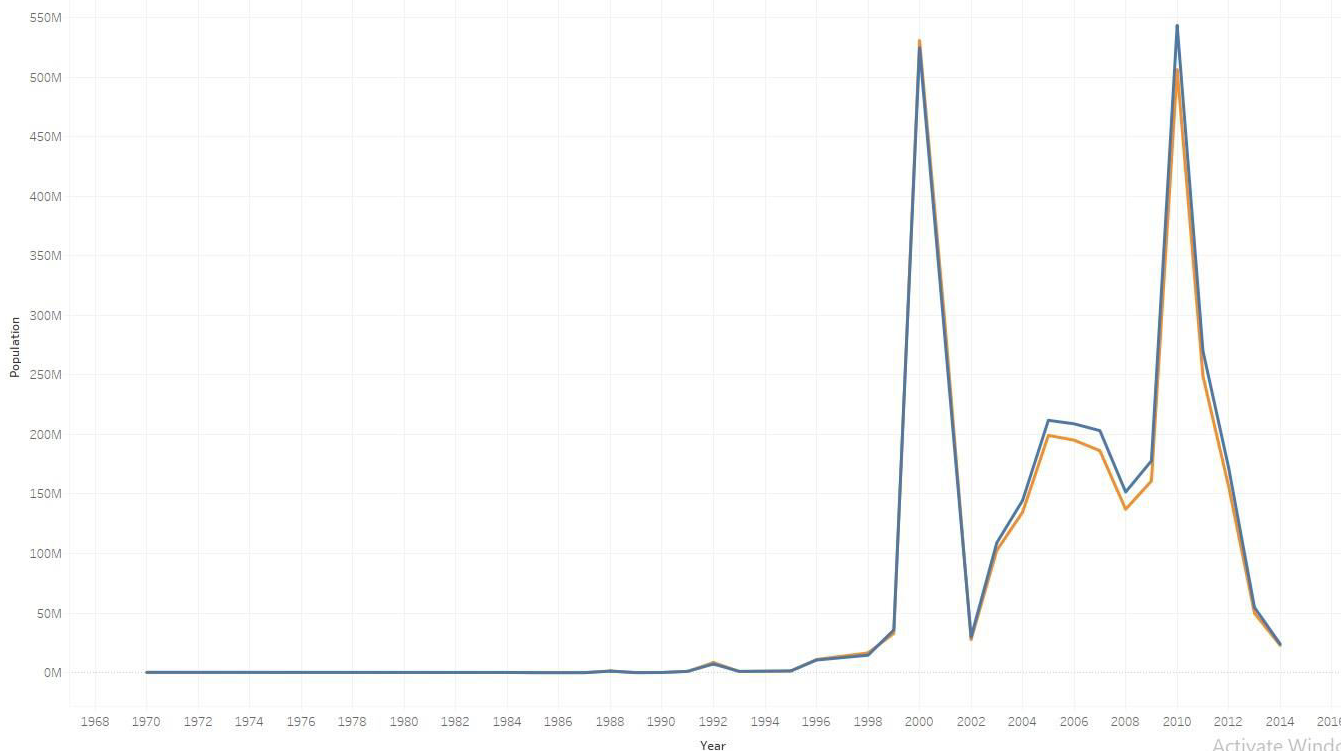
Marks

- Line
- Color
- Size
- Label
- Detail
- Tooltip
- Path
- Sex

Columns Year

Rows SUM(Population)

Population trends over the years by sex



Sex

- Female
- Male

Activate Windows
Go to Settings to activate Windows.



Dashboard Layout

Default
Phone
Device Preview

Size
Desktop Browser (1000 x 800)

Sheets

- Sheet 1
- Sheet 2
- Sheet 3
- Sheet 4
- Sheet 5
- Sheet 6
- Sheet 7

Objects

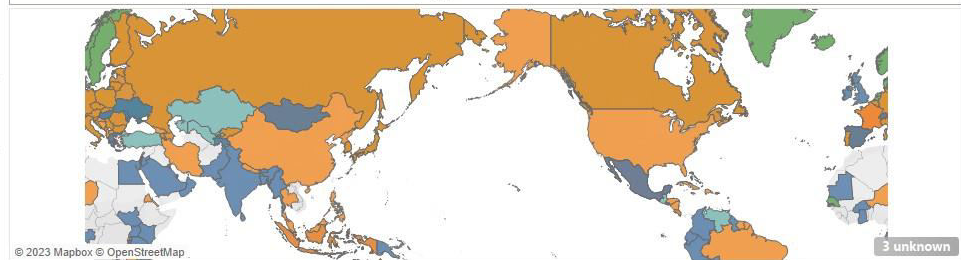
- Ask Data
- Data Story
- Image
- Blank
- Workflow
- Web Page
- Navigation
- Download
- Add Filters
- Einstein Discovery

Tiled Floating

Show dashboard title

Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Dashboard 1 Dashboard 2 Dashboard 3

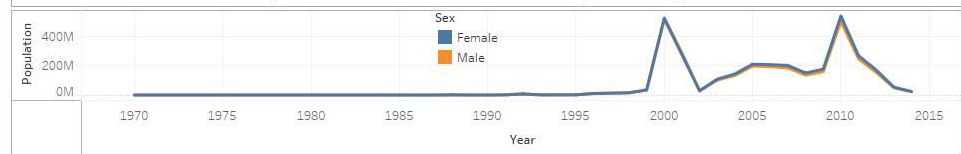
Record types of countries



Population trends over the years

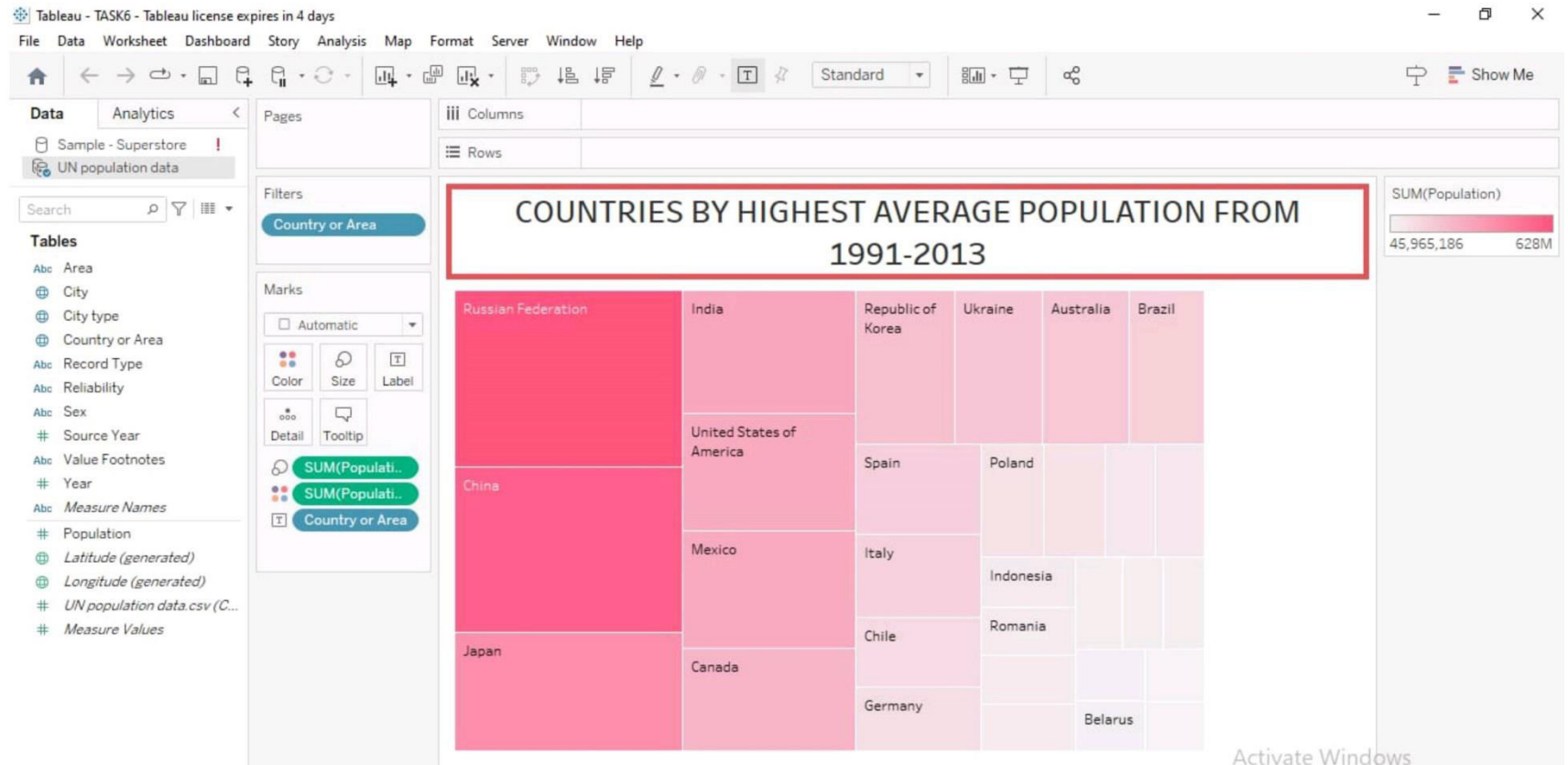


Population trends over the years by sex



D2

3.2 DASHBOARD 2:



Data | Analytics

- Sample - Superstore
- UN population data

Search

- Tables**
- Area
 - City
 - City type
 - Country or Area
 - Record Type
 - Reliability
 - Sex
 - Source Year
 - Value Footnotes
 - Year
 - Measure Names
 - Population
 - Latitude (generated)
 - Longitude (generated)
 - UN population data.csv (C...
 - Measure Values

Pages

Filters

Marks

Pie

Color Size Label

Detail Tooltip Angle

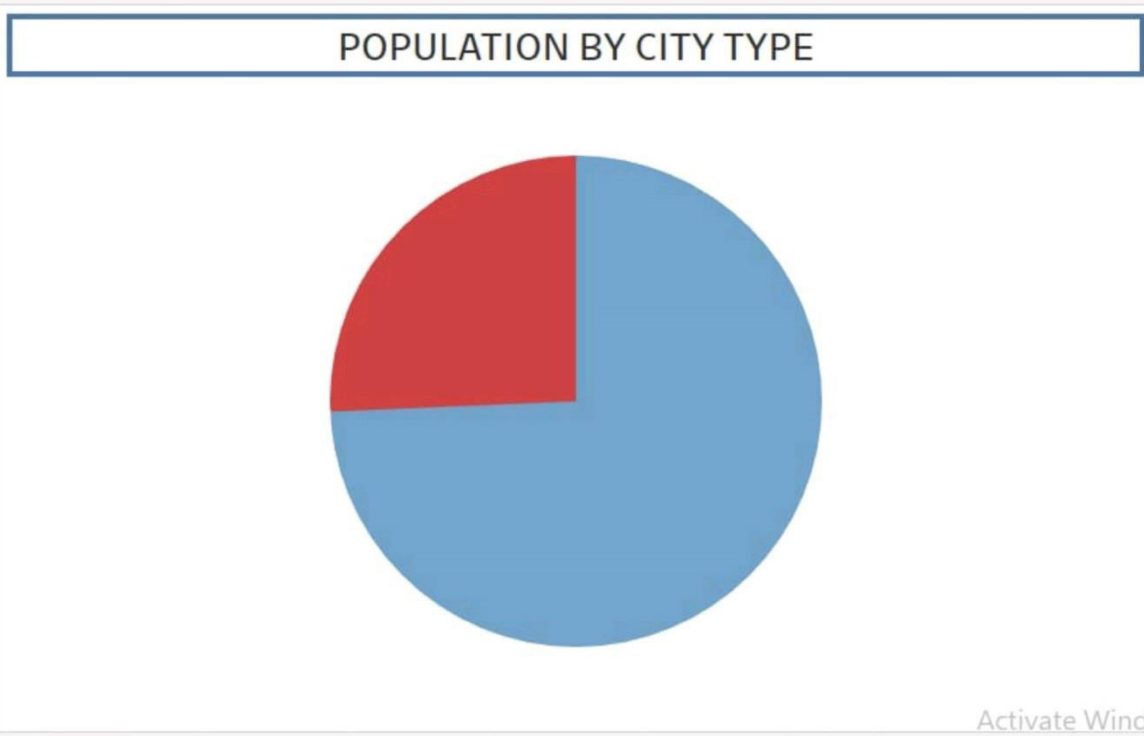
City type

SUM(Popul..

SUM(Populati..

Columns

Rows



City type

- Null
- City proper
- Urban agglomeration

SUM(Population)

6,199,282,491

Data Analytics

Sample - Superstore !

UN population data

Search

Tables

Area

City

City type

Country or Area

Record Type

Reliability

Sex

Source Year

Value Footnotes

Year

Measure Names

Population

Latitude (generated)

Longitude (generated)

UN population data.csv (C...

Measure Values

Pages

Columns

City

Rows

AVG(Population)

Filters

City

Marks

Bar

Color

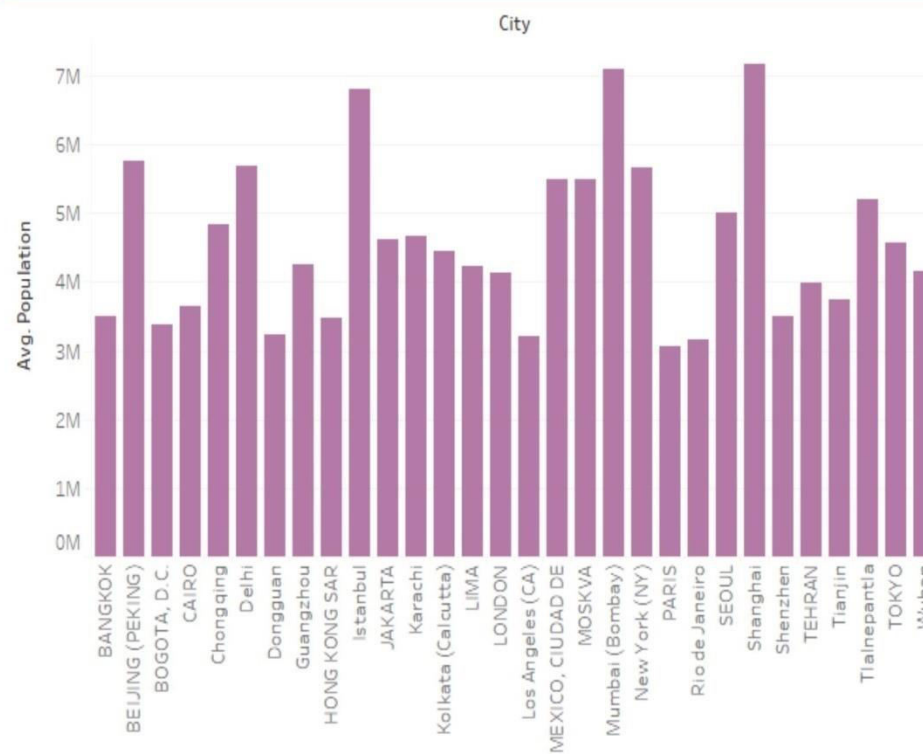
Size

Label

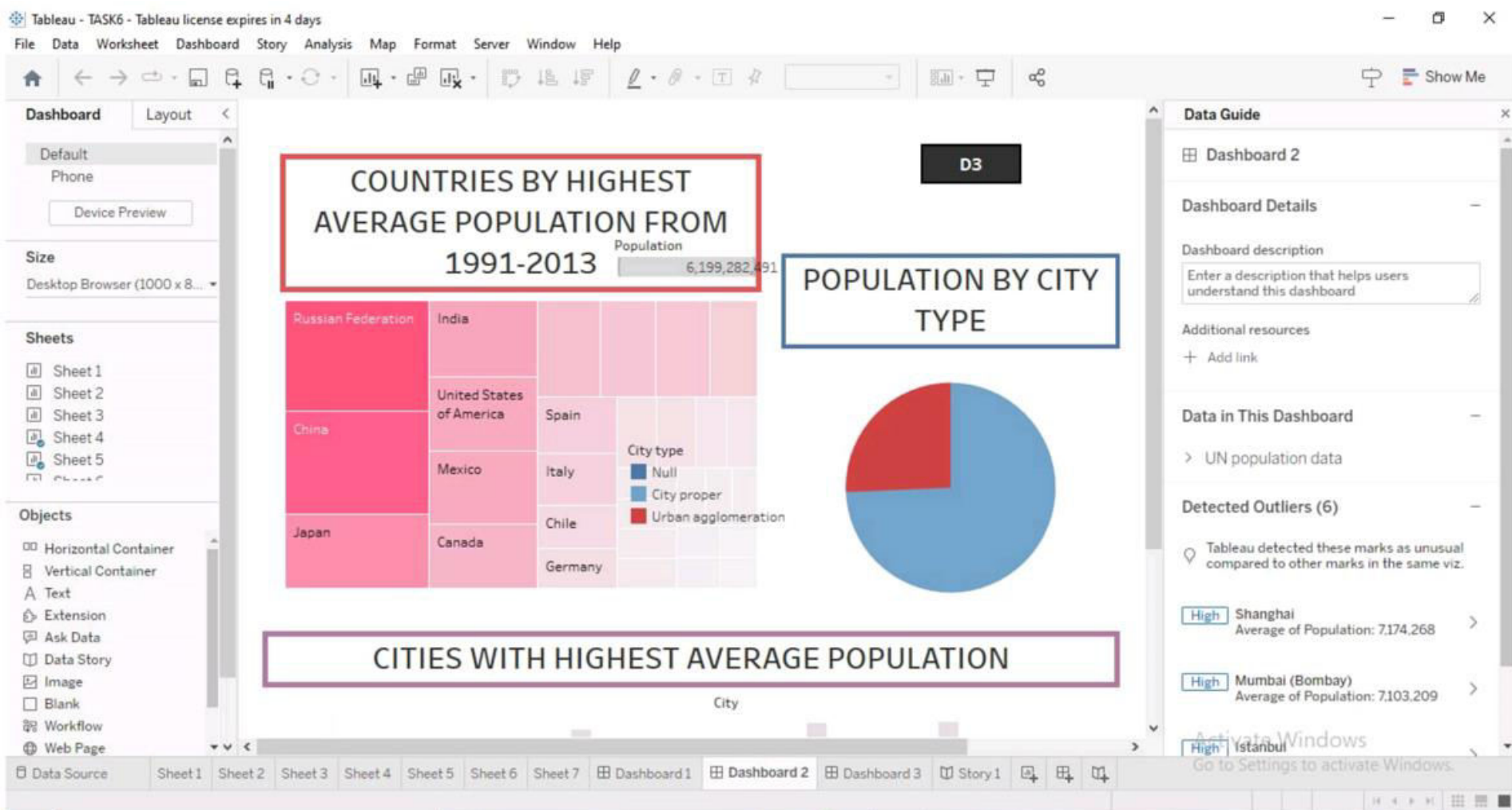
Detail

Tooltip

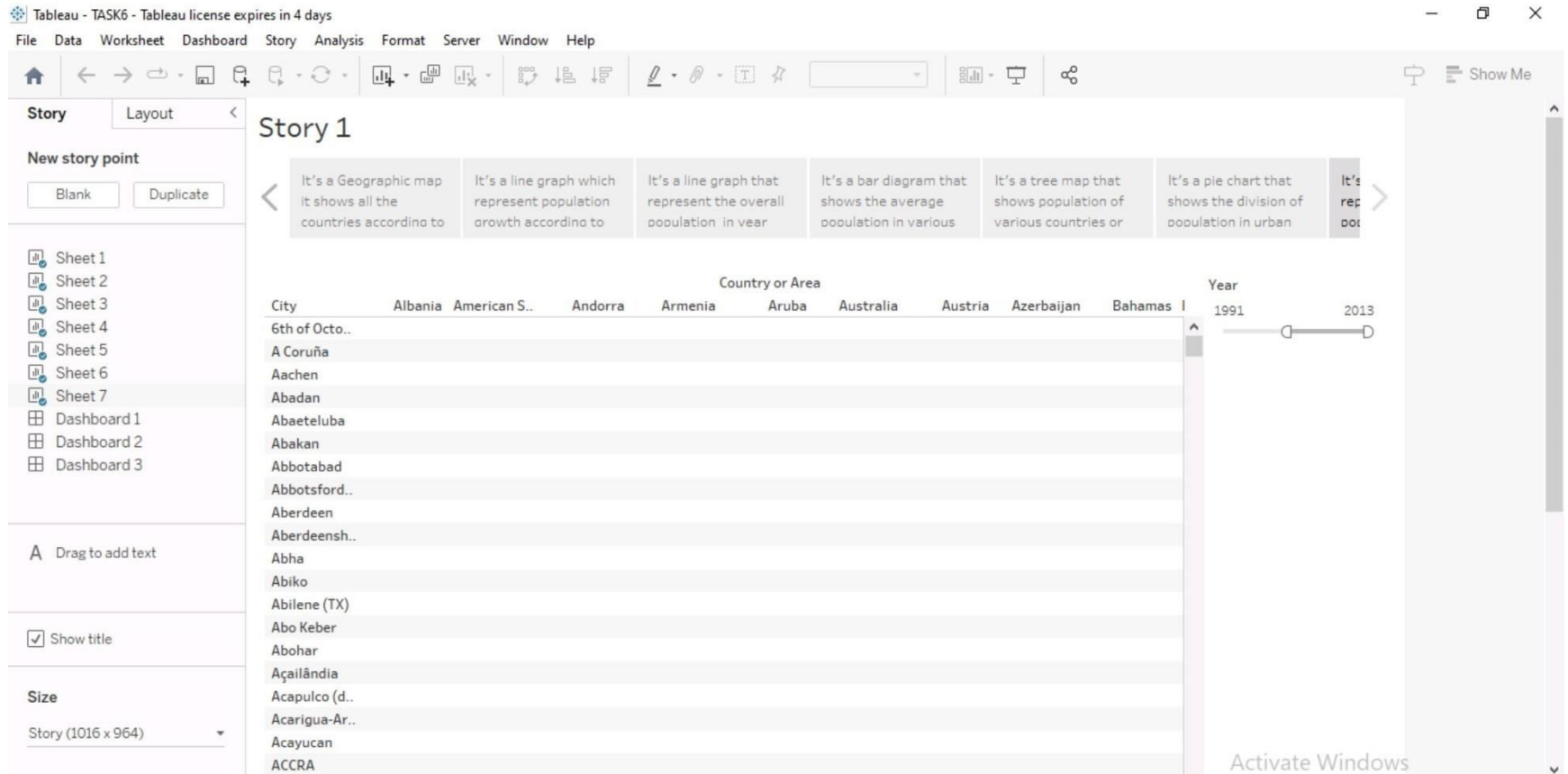
CITIES WITH HIGHEST AVERAGE POPULATION



Activate Windows



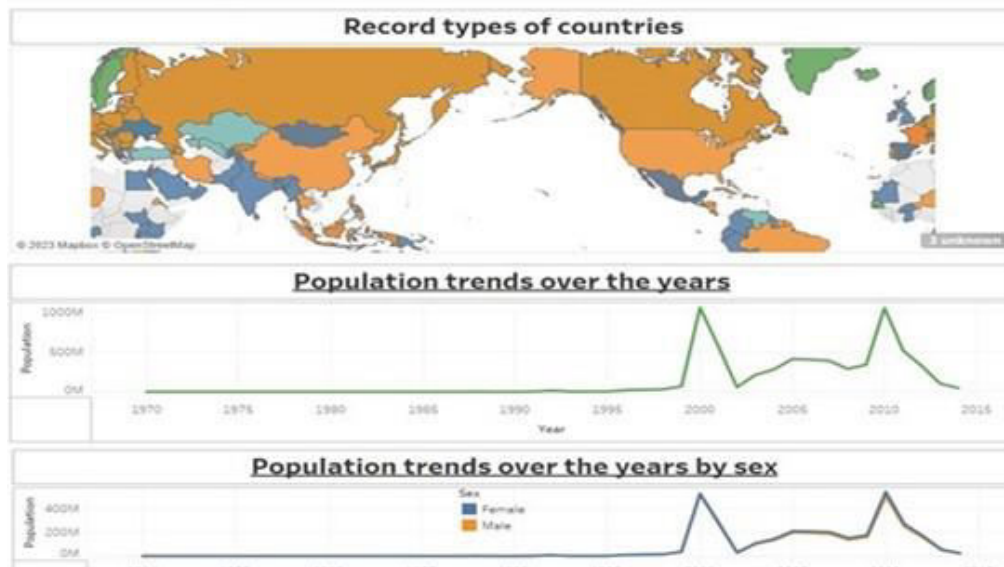
3.3 STORY:



3.4 WEBPAGE:

Home About Dashboard1 Dashboard2 Story

DASHBOARD1



Activate Windows
Go to Settings to activate Windows.

Home

About

Dashboard1

Dashboard2

Story

TRACING THE GROWTH OF POPULATION

Learn more



Activate Windows
Go to Settings to activate Windows.

Home

About

Dashboard1

Dashboard2

Story



POPULATION GROWTH

The world's population is more than three times larger than it was in the mid-twentieth century. The global human population reached 8.0 billion in mid-November 2022 from an estimated 2.5 billion people in 1950, adding 1 billion people since 2010 and 2 billion since 1998. The world's population is expected to increase by nearly 2 billion persons in the next 30 years, from the current 8 billion to 9.7 billion in 2050 and could peak at nearly 10.4 billion in the mid-2080s.

Activate Windows

Go to Settings to activate Windows.

DASHBOARD

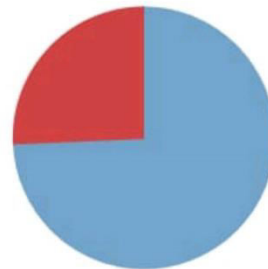
[Home](#)[About](#)[Dashboard1](#)[Dashboard2](#)[Story](#)**D3**

COUNTRIES BY HIGHEST AVERAGE POPULATION FROM 1991-2013

Population 6,199,282,491



POPULATION BY CITY TYPE



CITIES WITH HIGHEST AVERAGE POPULATION

Activate Windows
Go to Settings to activate Windows.

STORY

Story 1

ip

to

It's a line graph which represent population growth according to

It's a line graph that represent the overall population in year

It's a bar diagram that shows the average population in various

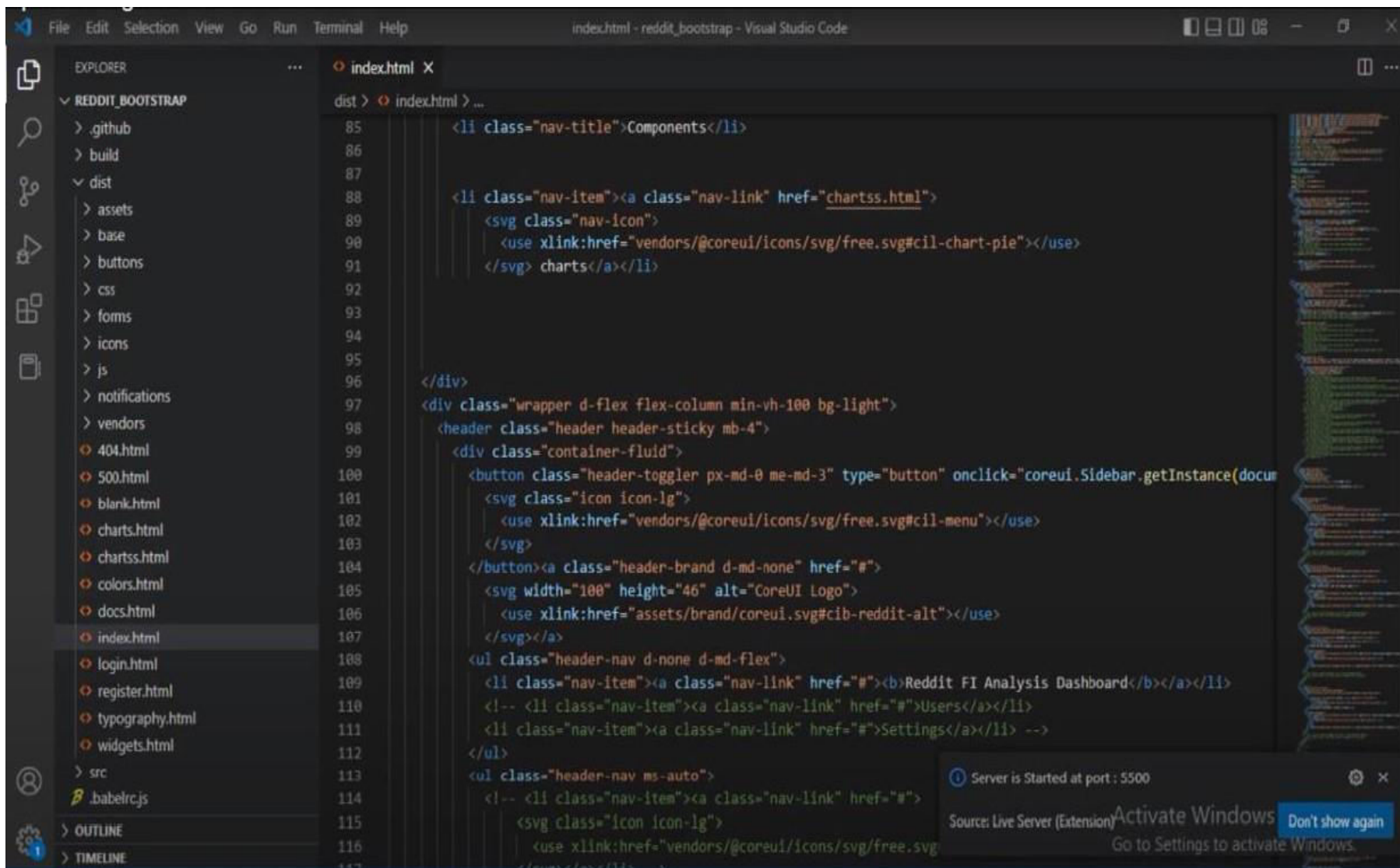
It's a tree map that shows population of various countries or

It's a pie chart that shows the division of population in urban

It's text table which represent the population of cities by

City	Albania	American S..	Andorra	Armenia	Aruba	Australia	Austria	Azerbaijan	Bahamas	Year
6th of Octo..										1991
A Coruña										2013
Aachen										
Abadan										
Abaeteluba										
Abakan										
Abbotabad										
Abbotsford..										
Aberdeen										
Aberdeensh..										
Abha										
Abiko										
Abilene (TX)										

Activate Windows
Go to Settings to activate Windows.



ADVANTAGES AND DISADVANTAGES

❖ ADVANTAGES:

- The improved demographic structure of society.
- Higher economic growth.
- The efficiency of higher population density.
- More scope for innovation, invention and creative genius
- Enables creating a developed and prosperous nation
- More people lead to greater human capital.

❖ DISADVANTAGES:

- Congestion
- Water shortages
- Generating unsustainable waste
- Problem of unemployment
- Environmental Pollution
- Slow Economic Growth

CONCLUSION

Overpopulation may lead to many issues like depletion of natural resources, environmental pollution and degradation and loss of surroundings. All countries must take immediate steps to control and manage human population growth.

FUTURE SCOPE:

- One important area of study covers the components of population change or the factors responsible for change in the size of population. It must be understood that the population of any place at a specific time is a function of three types of events which is to be controlled:
 - Birth
 - Death
 - Migration
- Population structure implies the age and sex structure of the population and population characteristics include each characteristic as marital status, labour, force, status.
- The government and various NGOs should raise awareness about family planning and welfare. Awareness about the use of contraceptive pills and family planning methods should be generated.