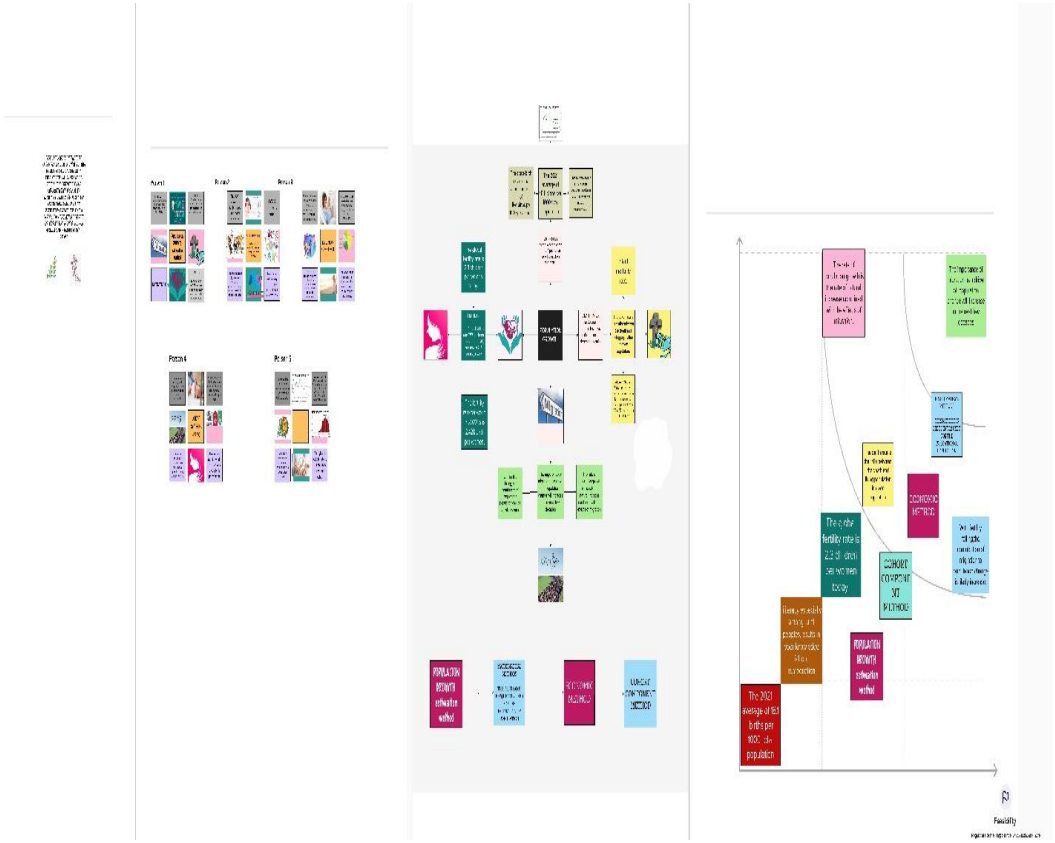
TRACING THE GROWTH OF GLOBAL COMMUNITY: A POPULATION FORECASTING ANALYSIS

INTRODUCTION:

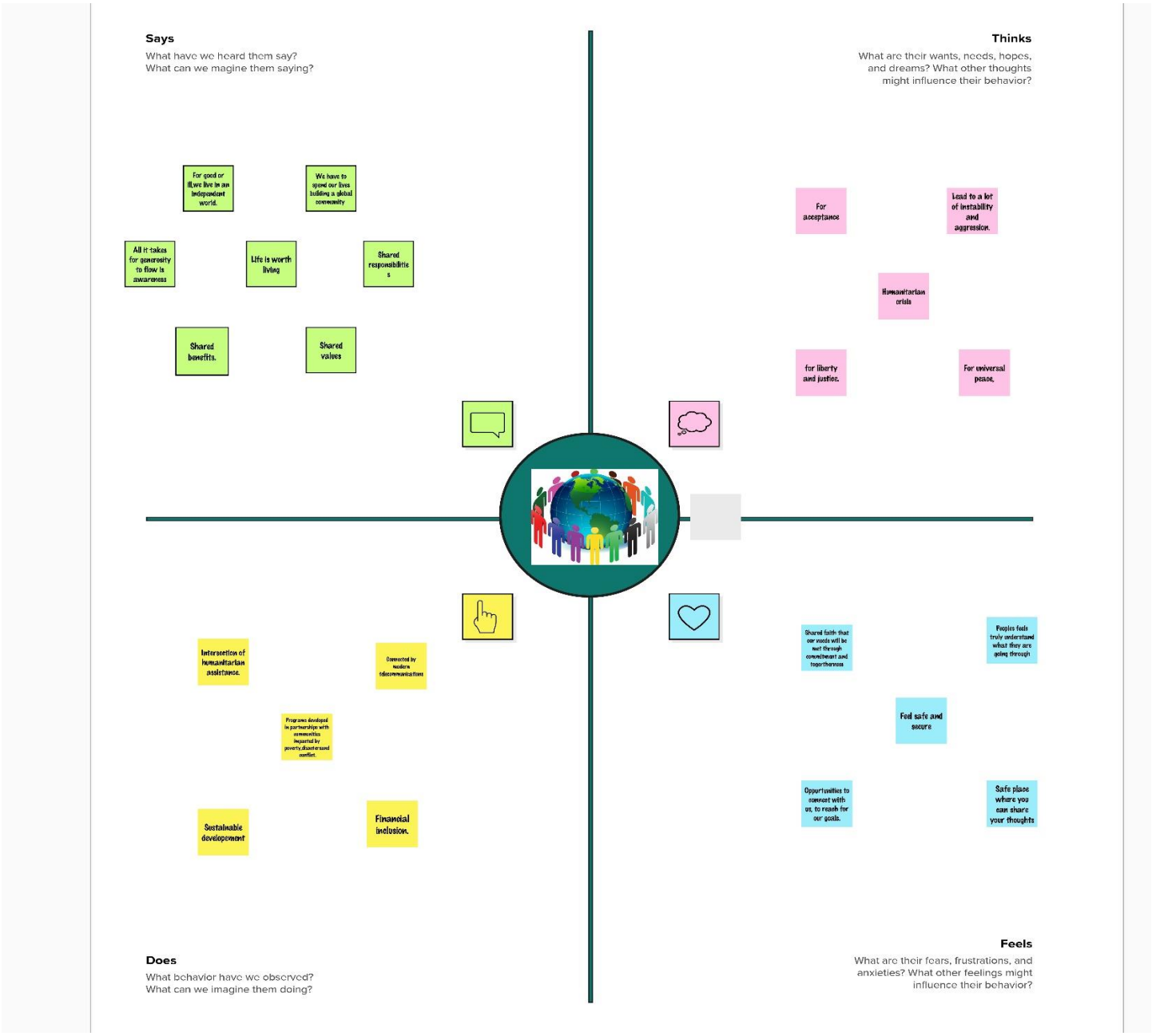
The world's population is more than three times larger than it was in the mid-twentieth century. The global human population reached 8.0 billion in mid-November 2022 from an estimated 2.5 billion people in 1950, adding 1 billion people since 2010 and 2 billion since 1998. The world's population is expected 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.

This dramatic growth has been driven largely by increasing numbers of people surviving to reproductive age, the gradual increase in human lifespan, increasing urbanization, and accelerating migration. Major changes in fertility rate have accompanied this growth. These trends will have far-reaching implications for generations to come.

PROBLEM UNDERSTANDING:



Act 1.1 Brainstorming and ideation



Act 1.2 EMPATHY MAP

In above ACT 1.1 & 1.2 that shows

- Business requirements
- Literature survey
- Social impact

- Empathy map

DATA COLLECTION & EXTRACTION FROM DATABASE

- Collect the dataset
- Storing data in DB & perform SQL operations
- Connect DB with tableau

DATA PREPARATION

- Prepare the for visualization

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

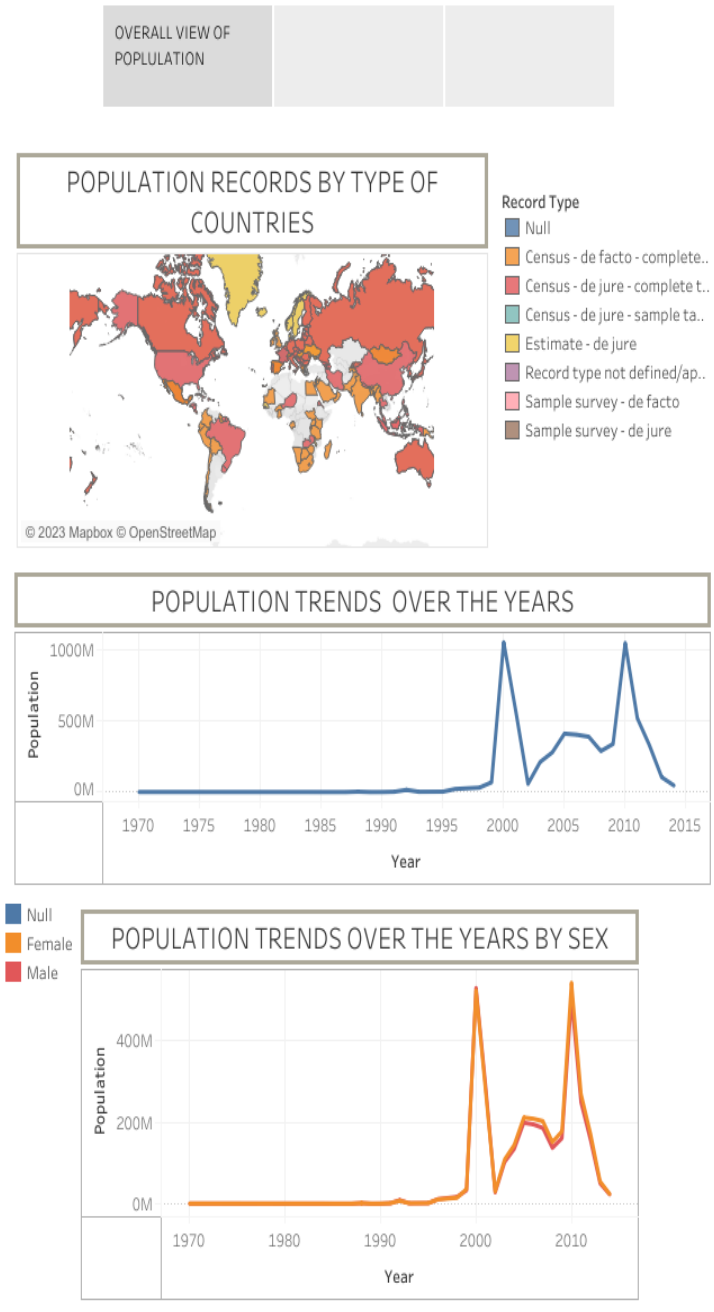
- NO OF UNIQUE VISUALIZATION
  - Population records by type of countries
  - Population trends over the years
  - Population trends over the years by sex
  - Cities with highest average populations
  - Countries with highest average population from 200-2014
  - Population by city type
  - Population of citied by year

DASHBOARD

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing,

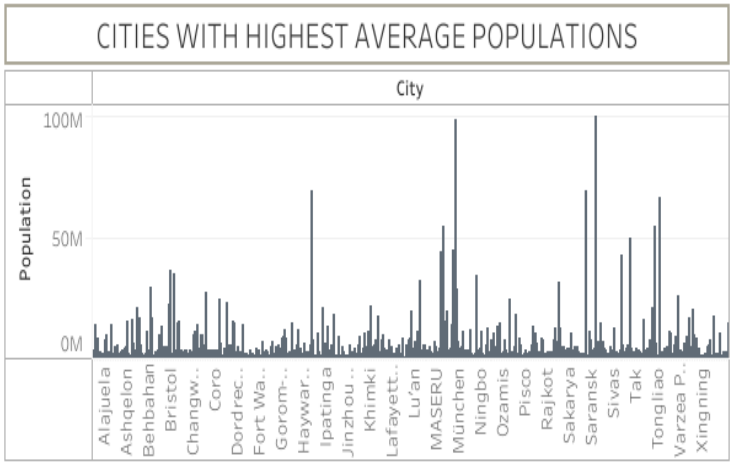
healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

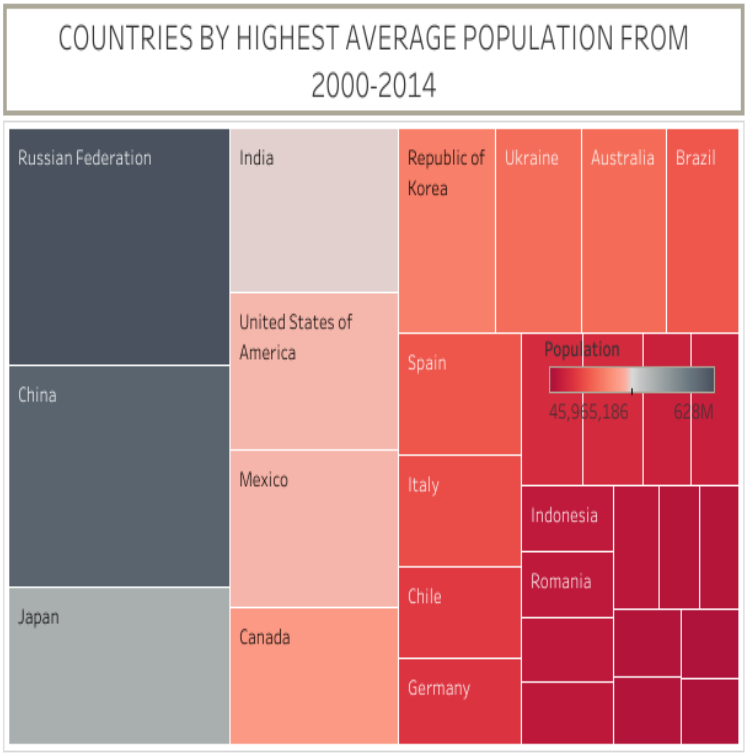
Story 2



Story 2

OVERALL VIEW OF POPLULATION



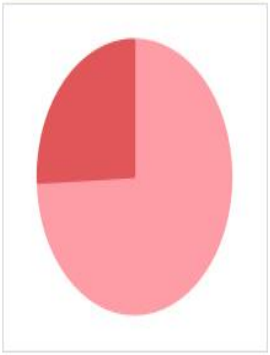


Story 2

OVERALL VIEW OF POPLULATION

City type
- Null
- City proper
- Urban agglomeration

POPULATION BY CITY TYPE



Population
6,199,282,491

POPULATION OF CITIED BY YEAR

	Country or Area						
City	Albania	American S..	Andorra	Armenia	Aruba	Austria	Azerbaij
6th of Octo..							
A Coruña							
Abaeteluba							
Abbotsford..							
Abiko							
Abo Keber							
Abohar							
Açailândia							
Achalpur							
Acheng							
Adilabad							
Adityapur							
Adoni							
Agartala							
Ageo							
Agra							
Aguas Lind..							
Ahmedabad							

STORY

- NO OF SCENES OF STORY

Story 1

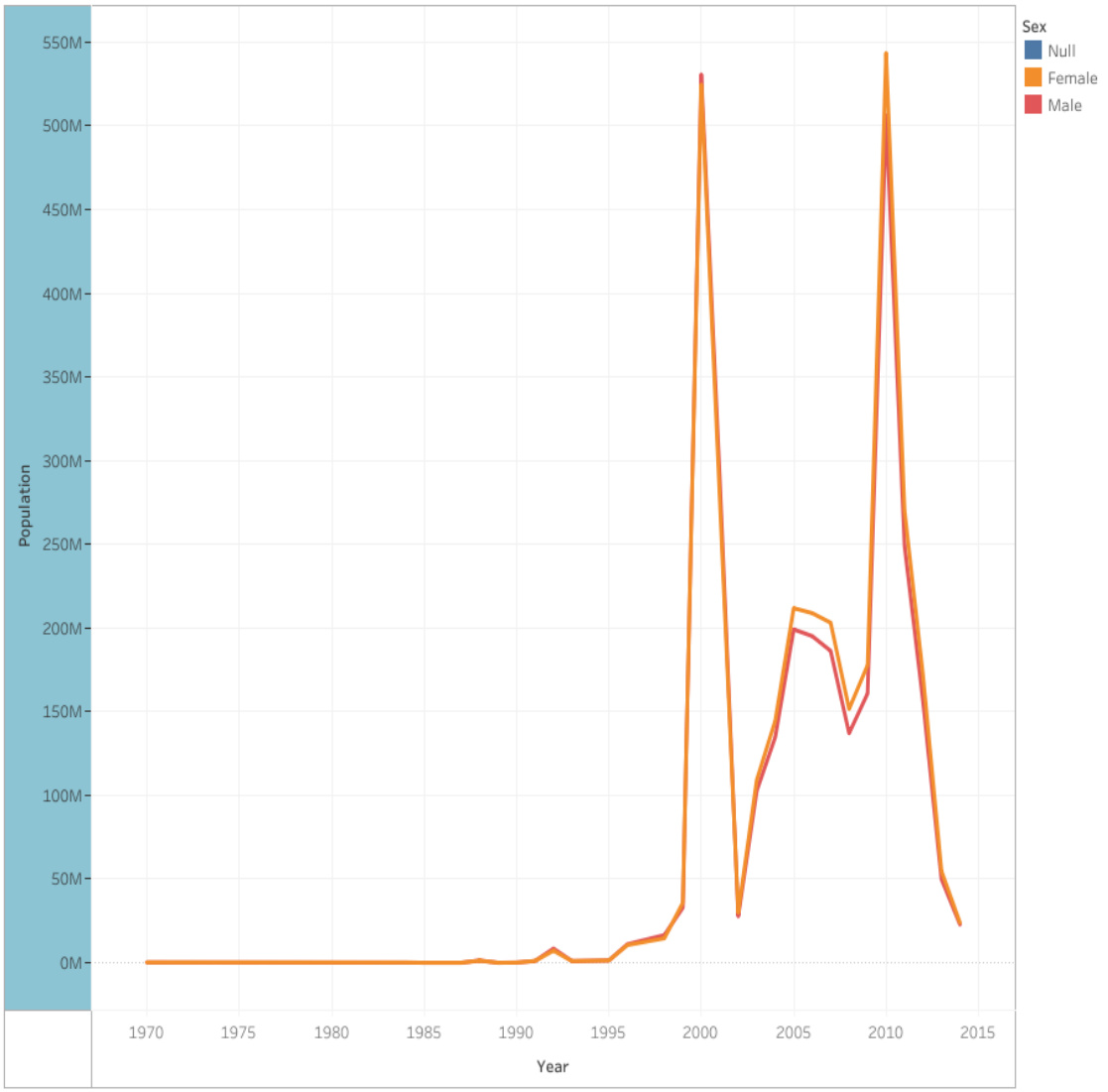
This is a ..

This graph shows the population over the years

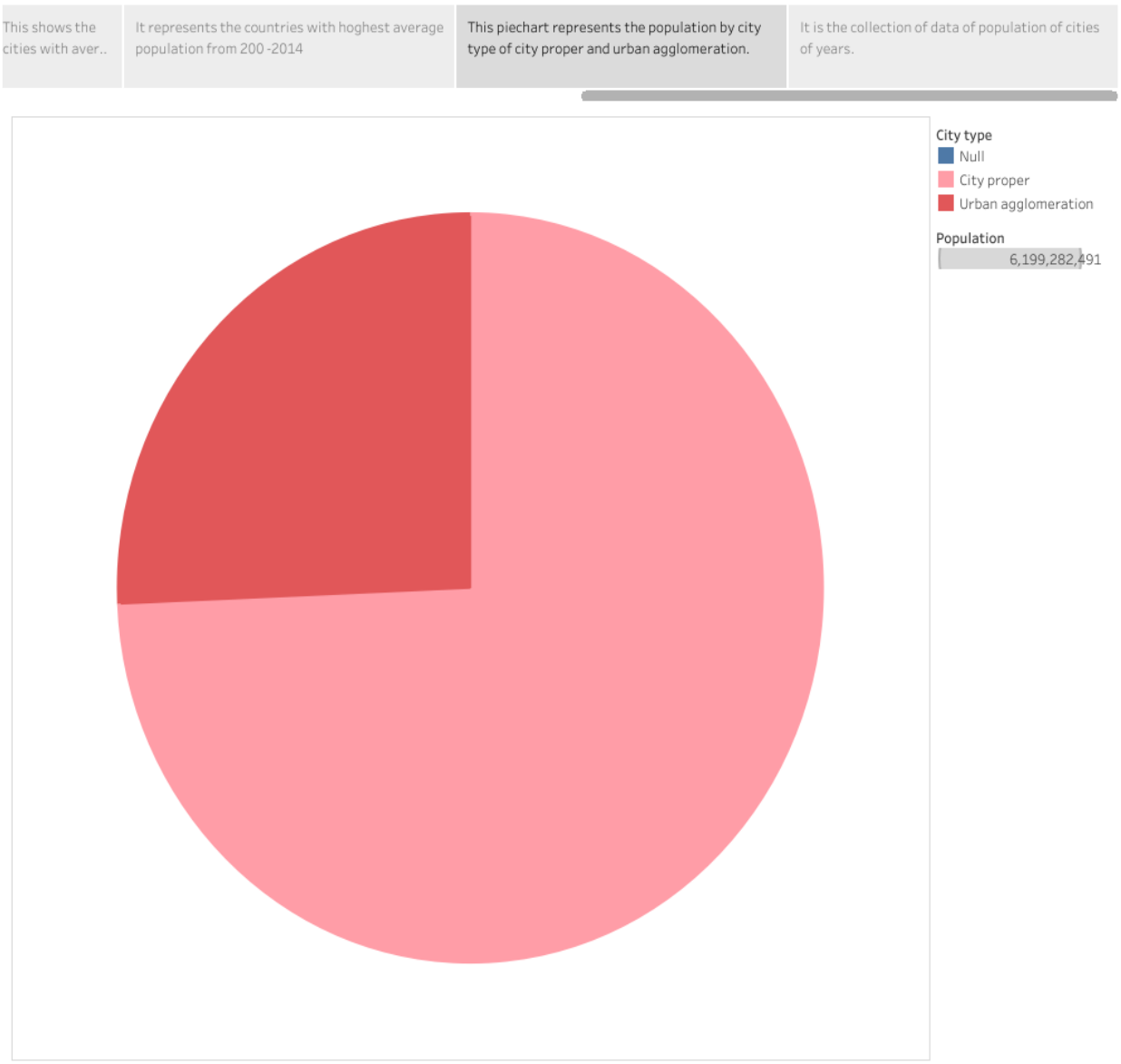
This graph shows the population trends over the years by sex. The Orange colour indicates femal..

This shows the cities with average populations.

It repres ents th..



Story 1



PERFORMANCE TESTING

- Amount of Data Rendered to DB
- Utilization of Data Filters
- No of Calculation Fields
- No of Visualizations/ Graphs

WEB INTEGRATION

- Publishing dashboard and reports to tableau public
- Dashboard and Story embed with UI With Flask

Project Demonstration & Documentation

- Record explanation Video for project end to end solution
- Project Documentation-Step by step project development procedure