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<b>Exp No.</b>	9

**Aim:** To Design Big Data Dashboard using Tableau on dataset -Women empowerment / Gender participation.

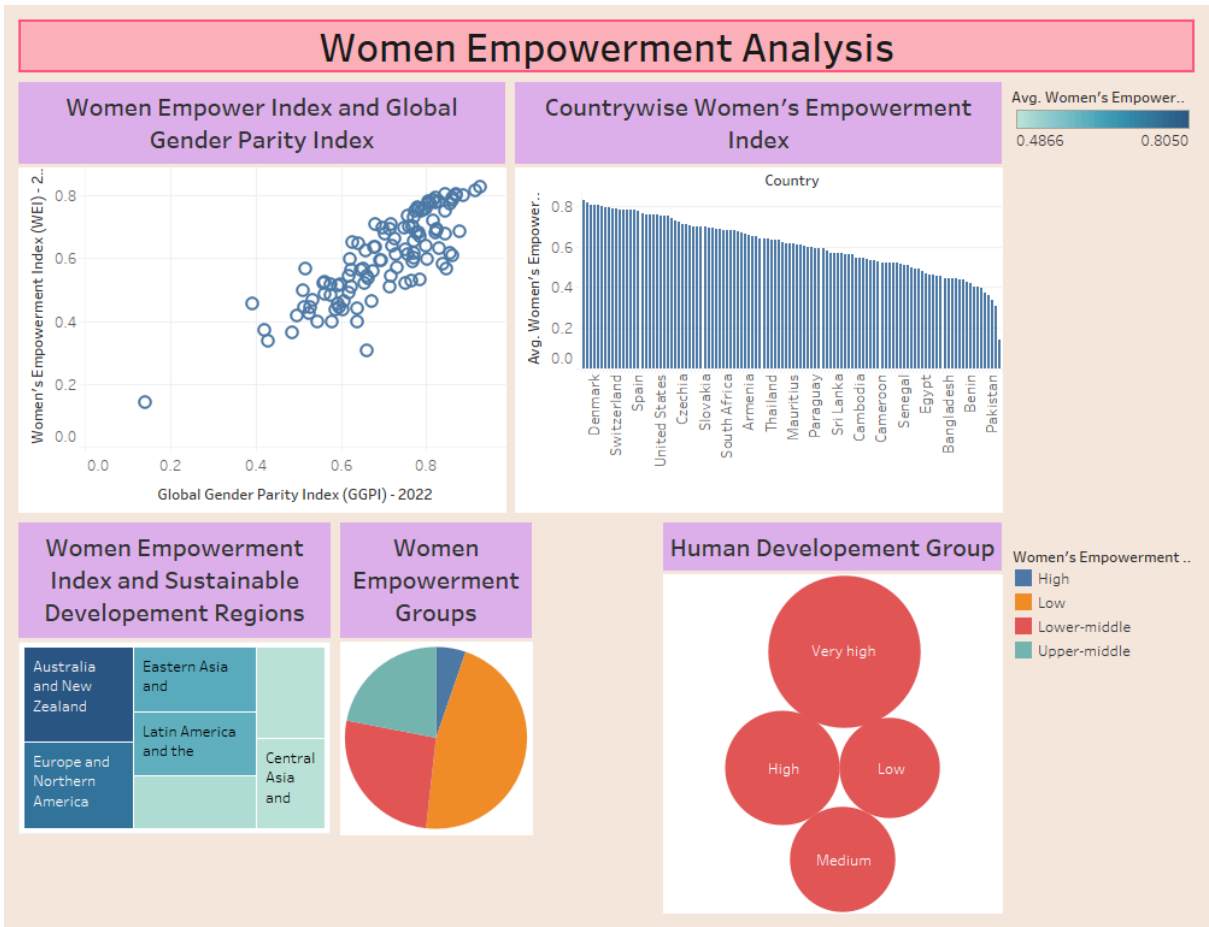
### Description:

Dataset used is Women Empowerment Index Dataset available at

<https://www.kaggle.com/datasets/iamsouravbanerjee/women-empowerment-index/data>

- **Country:** The name of the country or territory included in the dataset.
- **Women's Empowerment Index (WEI) - 2022:** Quantifies women's empowerment within each country for the year 2022, offering insights into gender dynamics and opportunities for women.
- **Women's Empowerment Group - 2022:** Categorizes countries based on their performance and status regarding women's empowerment, facilitating comparative analysis.
- **Global Gender Parity Index (GGPI) - 2022:** Measures gender parity at a global level for the year 2022, indicating the degree of equality between men and women.
- **Gender Parity Group - 2022:** Classifies countries into groups based on their level of gender parity, aiding in the identification of trends and disparities.
- **Human Development Group - 2021:** Classifies countries into specific groups based on their Human Development Index (HDI) scores and development levels for the year 2021.
- **Sustainable Development Goal regions:** Aligns countries with specific regions as defined by the Sustainable Development Goals (SDGs), providing context for development efforts and initiatives.

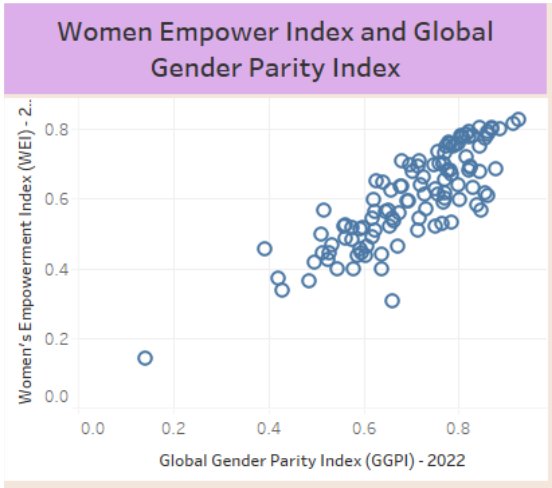
Dashboard:



**Story:** This dashboard provides a comprehensive analysis of women's empowerment across the globe. The scatter plot shows a positive correlation between the Women's Empowerment Index (WEI) and the Global Gender Parity Index (GGPI). This means that countries with a higher WEI tend to have a higher GGPI as well. The bar chart shows the average women's empowerment index for different countries around the world. The charts also divide the world into different regions and groups based on their Human Development Index and show how those groups relate to women's empowerment.

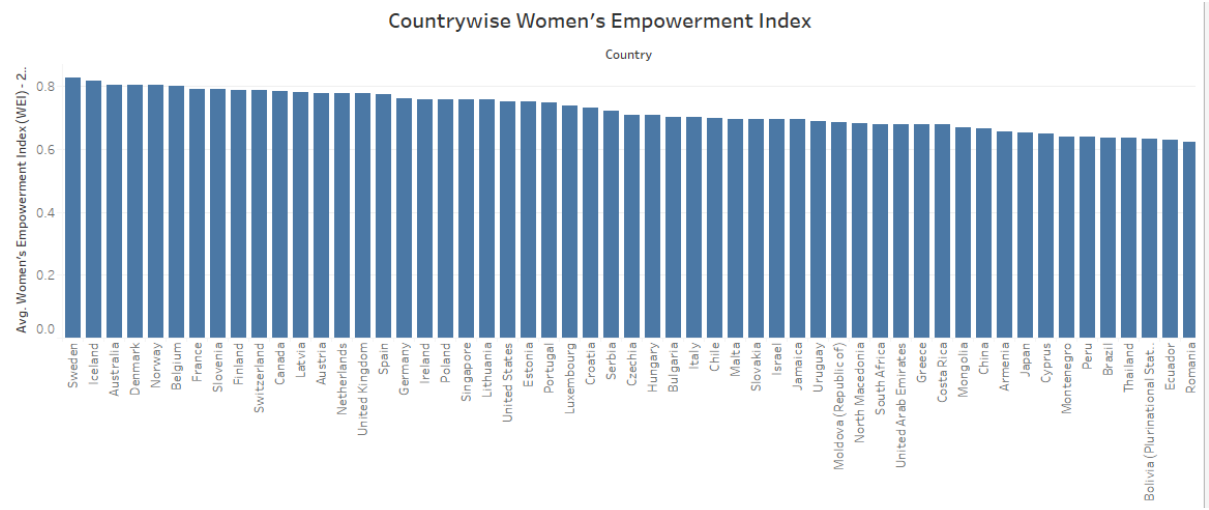
Graphs and Observations:

Scatter Plot:



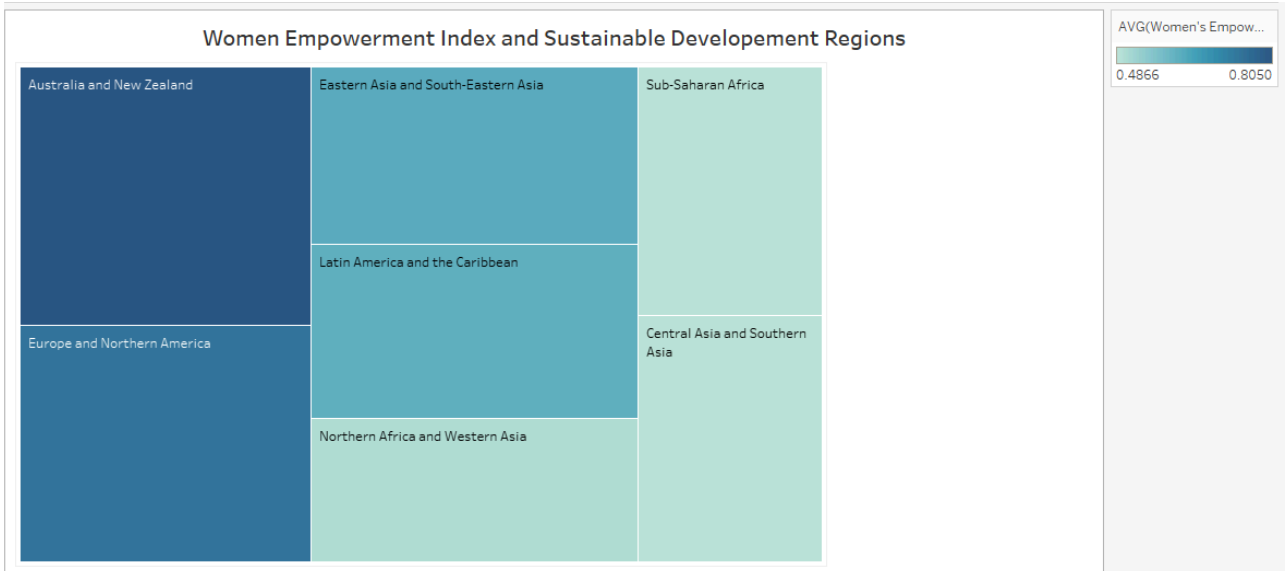
**Observation:** The scatter plot shows the relationship between the Women Empowerment Index and the Global Gender Parity Index. It shows a positive correlation between the two indices, meaning that countries with higher gender parity tend to have higher Women Empowerment Index scores.

Bar Chart:



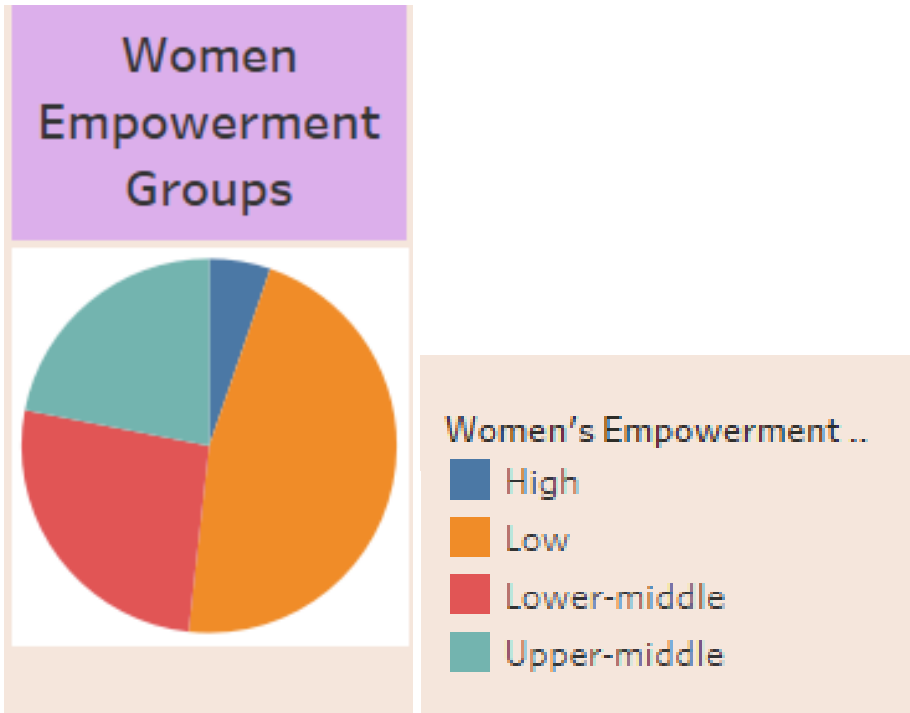
**Observation:** The bar chart shows Women's Empowerment Index scores for different countries. The chart shows that the highest scores are for Sweden and Iceland, while the lowest scores are for Ecuador and Romania.

**TreeMap:**



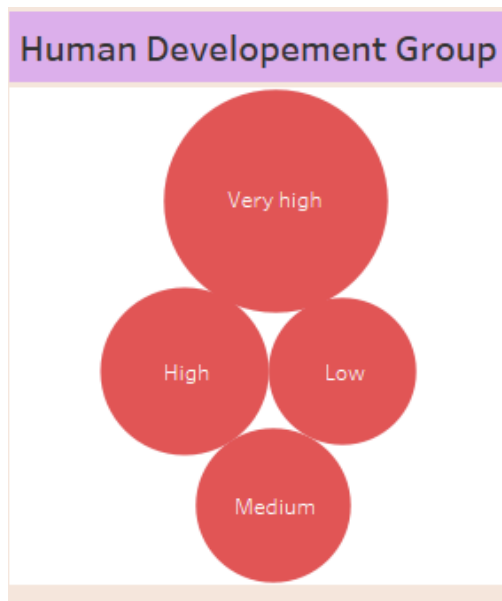
**Observation:**The treemap shows the distribution of women's empowerment in different sustainable development regions. The largest region is Australia and New Zealand with the highest proportion of women's empowerment followed by Latin America and Eastern Asia.

**Pie Chart:**



**Observation:** The pie chart shows the distribution of women empowerment groups. The largest proportion of countries are in the Low category, followed by Lower-Middle and Upper-middle. The smallest proportion of women are in the High category. This indicates that the majority of the counties lack women empowerment.

**Bubble chart:**



**Observation:** The bubble chart shows that counties are categorized into 4 human development groups with major countries belonging to Very High group category.

**Conclusion:**

Through this experiment, we got to know about tableau and its powerful capabilities for data visualization. I was able to create a dashboard using the individual graphs plotted on different sheets in tableau.