Project Report

Team ID	LTVIP2026TMIDS85861
Project Name	Measuring The Pulse of Prosperity: An Index of Economic Freedom Analysis
Team Member 1	K Yuvasree
Team Member 2	K Usha Sree
Marks	5 Marks

1. INTRODUCTION

In today's globalized world, economic stability and national prosperity are strongly influenced by government policies, institutional quality, and market freedom. Economic freedom plays a crucial role in determining how efficiently resources are allocated, how businesses operate, and how citizens participate in economic activities. Countries with higher levels of economic freedom often experience stronger economic growth, lower unemployment, stable inflation, and improved standards of living.

The "Measuring the Pulse of Prosperity – An Index of Economic Freedom Analysis" project aims to analyze and visualize the Economic Freedom Index of various countries to understand how different economic indicators impact national performance. The study incorporates key factors such as property rights, government integrity, tax burden, inflation rate, GDP, and GDP (PPP) to provide a comprehensive evaluation of economic health.

This project utilizes MySQL for structured data storage and Tableau for interactive data visualization. By transforming raw economic data into meaningful dashboards and stories, the project enables comparative analysis between countries, highlights top and bottom performers, and uncovers relationships between economic freedom and economic growth indicators. The analysis helps policymakers, researchers, and analysts gain insights into global economic patterns and supports data-driven decision-making for sustainable economic development

1.1 Project Overview

This project analyzes the Economic Freedom Index of various countries to understand the relationship between economic policies and national prosperity. The study evaluates multiple economic indicators such as property rights, government integrity, tax burden, inflation rate, GDP, and GDP (PPP). Using MySQL for data storage and Tableau for visualization, the project presents interactive dashboards and stories to uncover global economic patterns.

1.2 Purpose

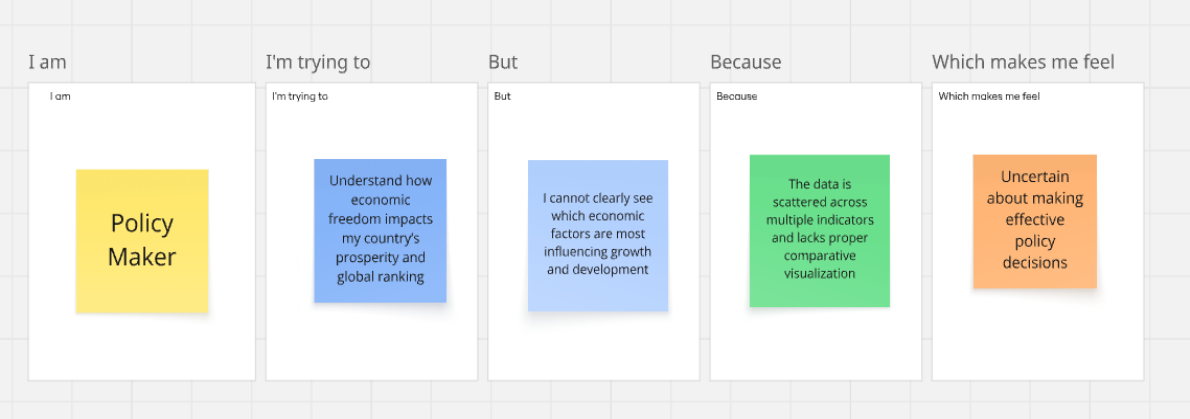
The purpose of this project is to:

* Analyze global economic freedom distribution
* Identify factors influencing economic growth
* Compare GDP and inflation trends across countries
* Highlight top and bottom performing economies
* Provide data-driven insights through visual analytics

2. IDEATION PHASE

2.1 Problem Statement

Many countries struggle with economic instability due to policy inefficiencies, corruption, inflation, and weak institutional frameworks. There is a need to analyze how economic freedom indicators influence national prosperity and economic performance.



Problem Statement (PS)	**I am (Customer)**	**I'm trying to**	**But**	**Because**	**Which makes me feel**
PS-1	Policy Maker	Understand how economic freedom impacts my country's prosperity and global ranking	I cannot clearly see which economic factors are most influencing growth and development	The data is scattered across multiple indicators and lacks proper comparative visualization	Uncertain about making effective policy decisions
PS-2	Researcher/ Student	Compare countries based on Economic Freedom Index and GDP per capita	It is difficult to identify patterns and relationships between economic indicators	The raw dataset is complex and not presented in an interactive, analytical format	Confused and overwhelmed while drawing conclusions

2.2 Empathy Map Canvas

Example: Economic Student /Researcher in analysis

Template

Empathy map canvas

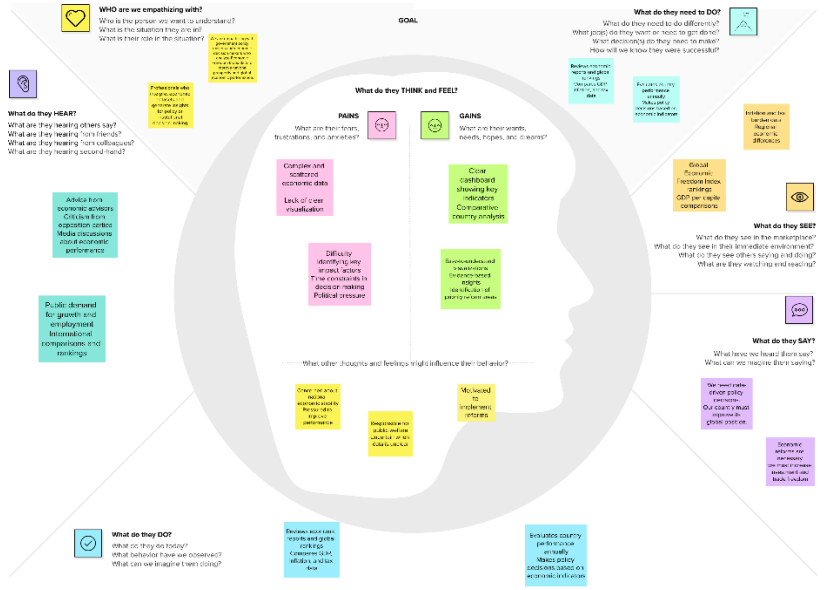
Use this framework to empathize with a customer, user, or any person who is affected by a team's work. Document and discuss your observations and note your assumptions to gain more empathy for the people you serve.

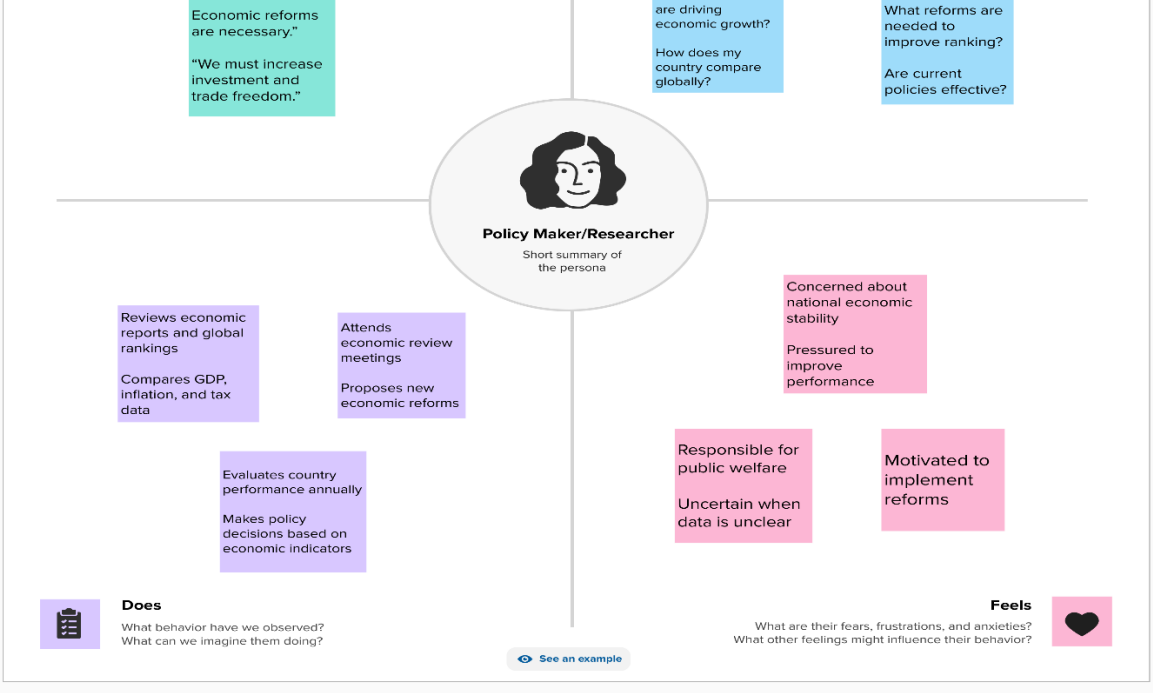
Originally created by Dave Gray at

Share template feedback

Develop shared understanding and empathy

Summarize the data you have gathered related to the people that are impacted by your work. It will help you generate ideas, prioritize features, or discuss decisions.





Who are we empathizing with?
* Policy makers
* Economic analysts
* Government decision makers
* Researchers

What do they need?
* Clear understanding of economic performance
* Insights into policy impact
* Data-driven comparisons across countries

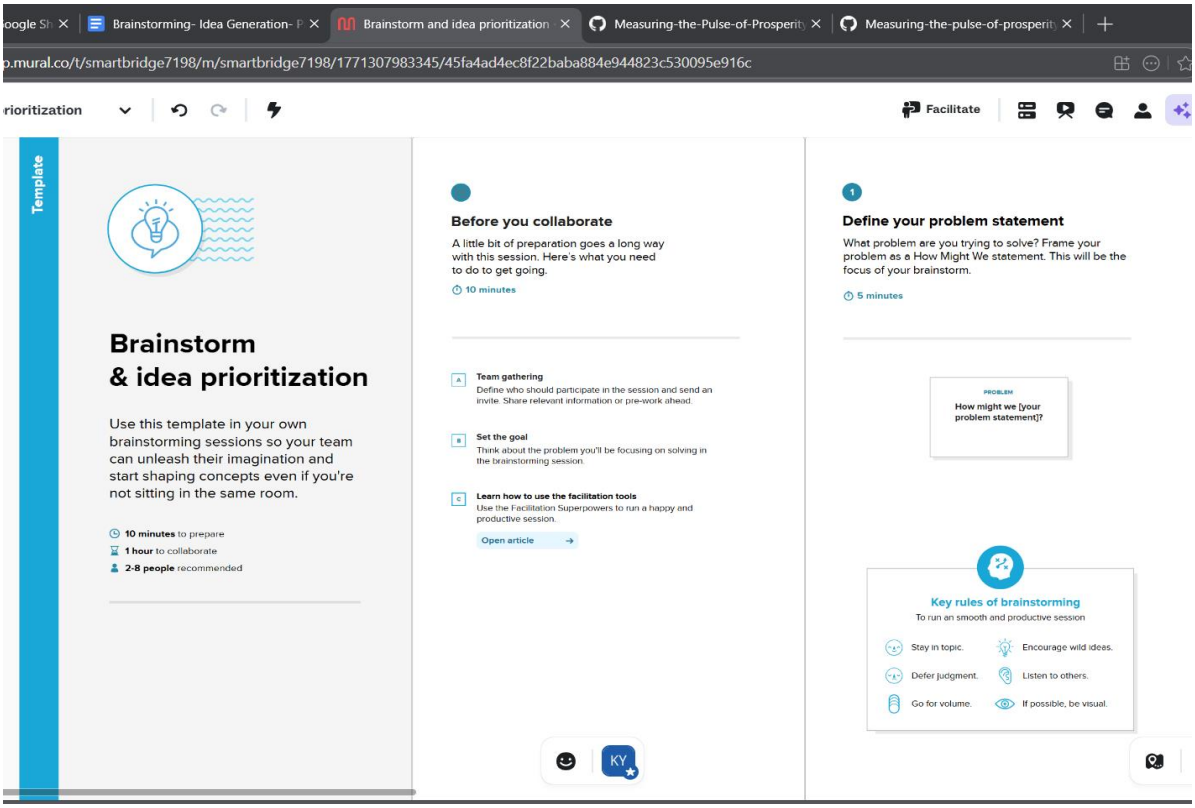
What do they see?
* Variations in economic growth
* Inflation instability
* Policy inefficiencies

What do they gain?
* Better decision-making
* Strategic economic planning
* Comparative benchmarking

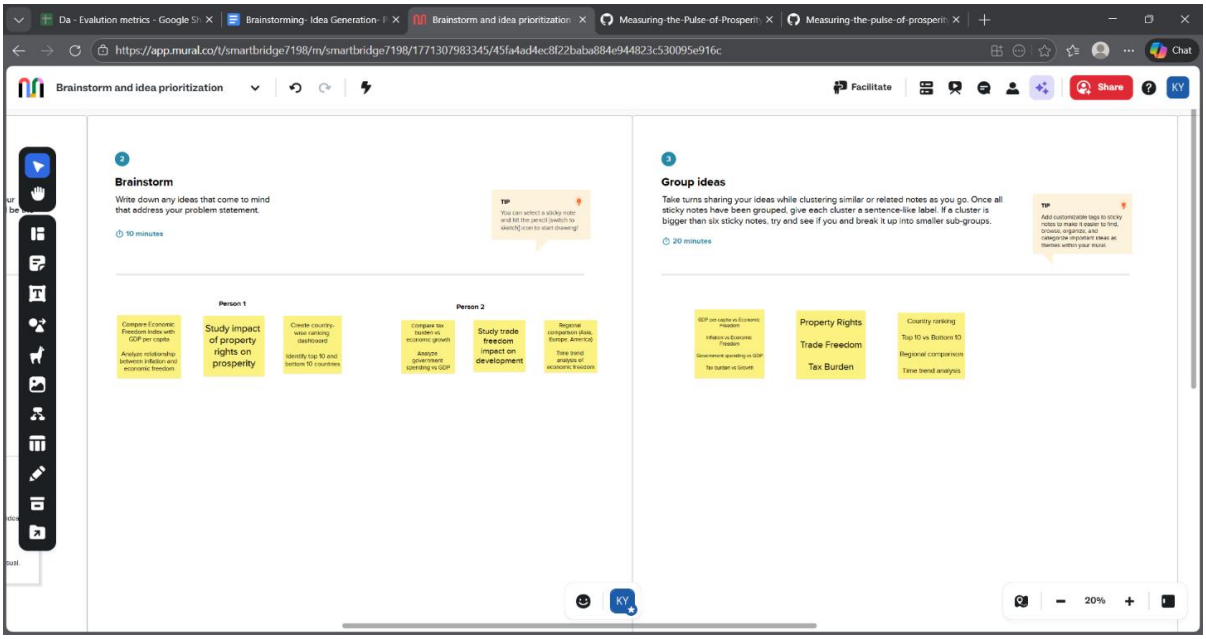
2.3 Brainstorming

* Use global economic datasets
* Integrate GDP and inflation data
* Create dashboards for interactive exploration
* Identify patterns between economic freedom and prosperity
* Compare top and bottom ranked countries

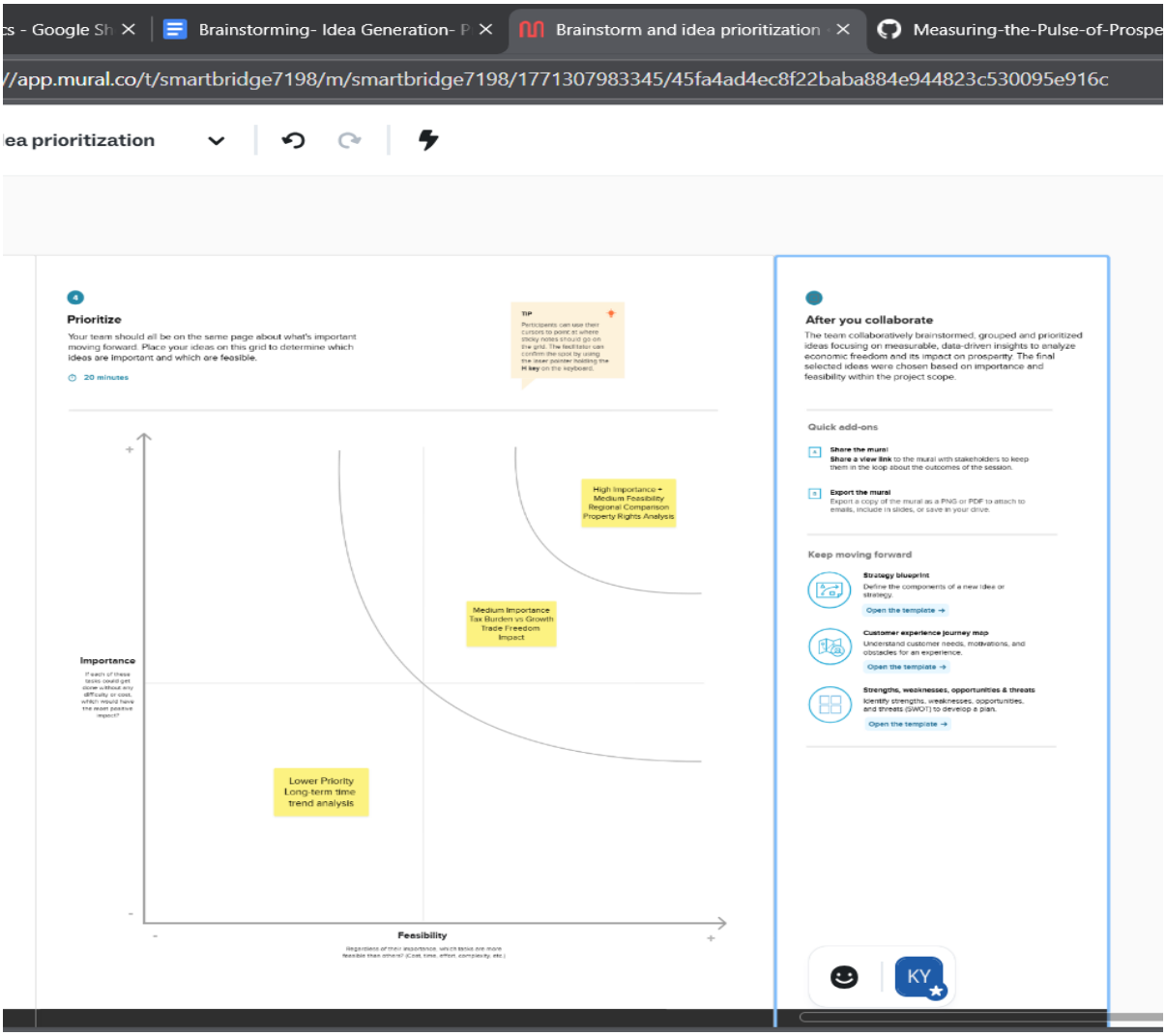
Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



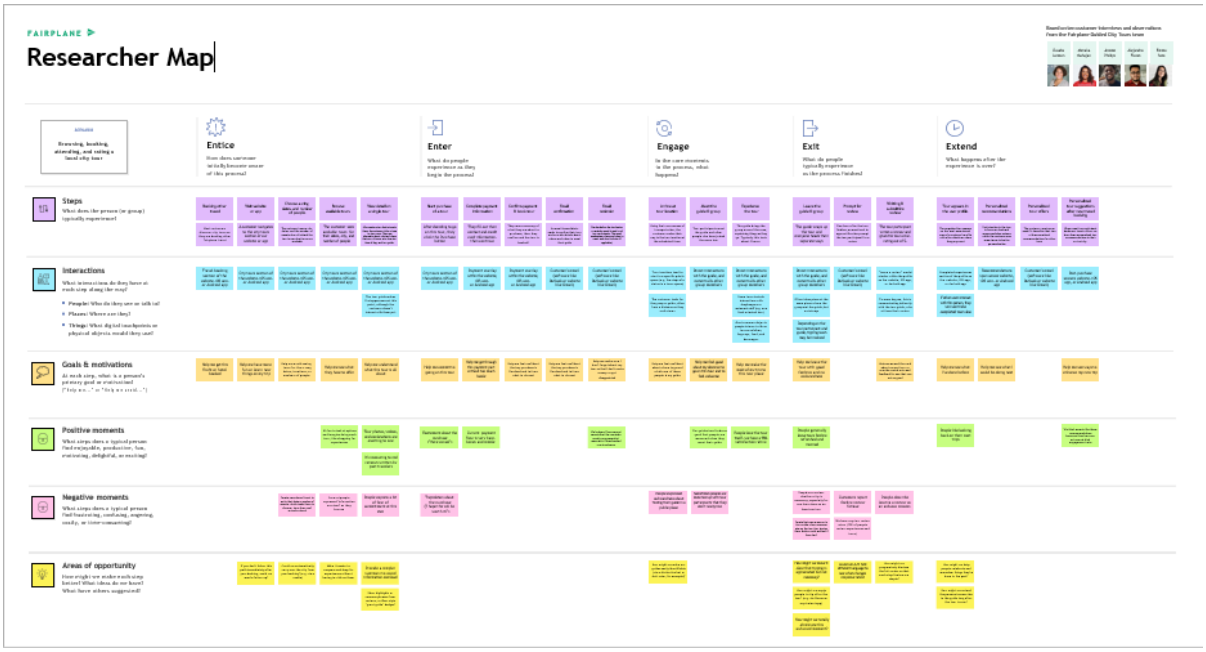
Step-3: Idea Prioritization



3. REQUIREMENT ANALYSIS

3.1 Researcher Journey map

- User opens dashboard
- Selects country/region
- Views economic score
- Analyzes GDP & inflation
- Compares rankings
- Draws insights



3.2 Solution Requirement

Functional Requirements:

- Data import from MySQL
- Data preprocessing
- Interactive dashboards
- Filtering by country and region
- Ranking analysis

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Collection	Import Index of Economic Freedom dataset from CSV/Excel Validate dataset structure and column consistency
FR-2	Data Cleaning	Remove null or missing values Correct data types (numeric, string, date)
FR-3	Data Preparation	Create calculated fields (average score, rankings, growth rate)
FR-4	Data Analysis	Compare economic freedom scores across countries Analyze trends over multiple years

FR-5	Data Visualization	Create line charts for year-wise trends Create map visualization for geographic comparison
FR-6	Dashboard Development	Combine multiple visualizations into a single dashboard Add filters (Country, Year, Region) Add interactive parameters and tooltips
FR-7	Dashboard Publishing	Publish dashboard to Tableau Public
FR-8	Reporting	Export insights for documentation and presentation

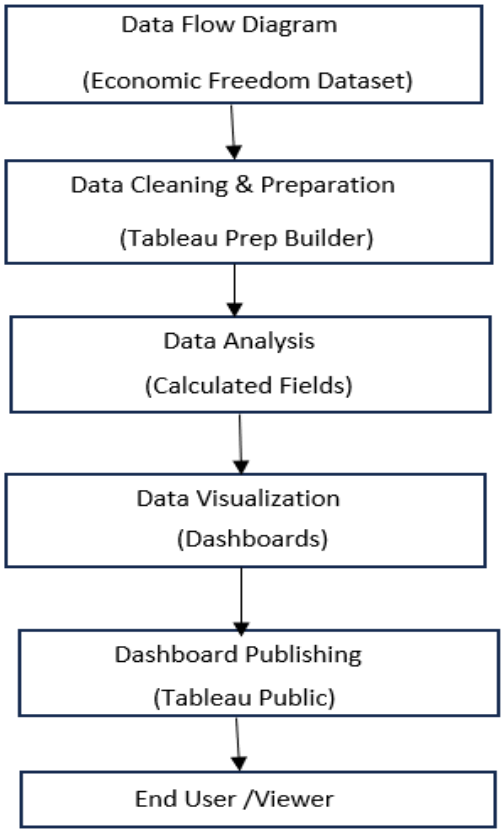
Non-functional Requirements:

- Fast dashboard loading
- Accurate data visualization
- User-friendly interface
- Reliable data storage

Following are the non-functional requirements of the proposed solution.

NFR No.	**Non-Functional Requirement**	**Description**
NFR-1	**Usability**	Dashboard should be easy to understand and navigate
NFR-2	**Security**	Dataset should not be altered unintentionally
NFR-3	**Reliability**	Data calculations must produce accurate and consistent results
NFR-4	**Performance**	Dashboard should load within acceptable time even with large datasets
NFR-5	**Availability**	Published dashboard should be accessible online via Tableau Public
NFR-6	**Scalability**	System should handle additional years or countries without redesign
NFR-7	**Compatibility**	Dashboard should work on desktop and mobile

3.3 Data Flow Diagram



3.4 Technology Stack

- Database: MySQL
- Visualization Tool: Tableau Public
- Programming: SQL
- Web Integration: HTML & CSS
- Version Control: GitHub
- This project follows a structured data analytics workflow.
- The Index of Economic Freedom dataset provided by The Heritage Foundation is used as the primary data source.
- Data cleaning and preprocessing are performed using Tableau Prep Builder.
- The cleaned dataset is analyzed and visualized in Tableau Desktop through interactive dashboards.
- The final insights are published using Tableau Public for public access and presentation.

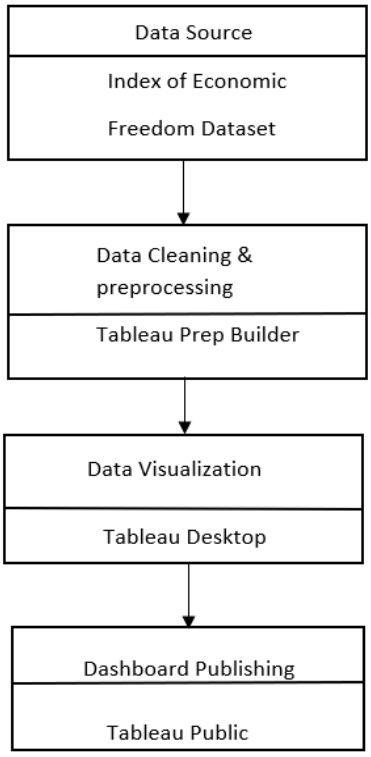


Table - 1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Data Source	Provides country-wise economic freedom indicators and scores	The Heritage Foundation Dataset (CSV/Excel)
2.	Data Storage	Stores structured economic data before processing	Microsoft Excel / CSV
3.	Data Cleaning & Preparation	Handles missing values, data type conversion, filtering unnecessary columns	Tableau Prep Builder
4.	Data Analysis	Performs calculations like averages, rankings, comparisons, trends	Tableau Desktop (Calculated Fields)
5.	Data Visualization	Creates charts, maps, and dashboards to represent insights	Tableau Desktop
6.	Dashboard Publishing	Publishes interactive dashboards online	Tableau Public
7.	Documentation & Reporting	Prepares final project report and presentation	MS Word / PowerPoint

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Application Type	Data Analytics & Visualization Project	Tableau Ecosystem
2.	Architecture	Data Processing Pipeline (Data → Cleaning → Visualization)	Tableau Prep + Tableau Desktop

S.No	Characteristics	Description	Technology
3.	Data Structure	Structured numerical & categorical data	CSV / Excel
4.	Analysis Capability	Comparative, ranking, and trend analysis	Tableau Calculated Fields
5.	Interactivity	Filters, parameters, drill-down dashboards	Tableau Desktop
6.	Visualization	Variety Bar charts, line charts, maps, scatter plots	Tableau Desktop
7.	Deployment	Cloud-based dashboard publishing	Tableau Public
8.	Scalability	Can analyze multiple countries and years	Tableau Platform

4. PROJECT DESIGN

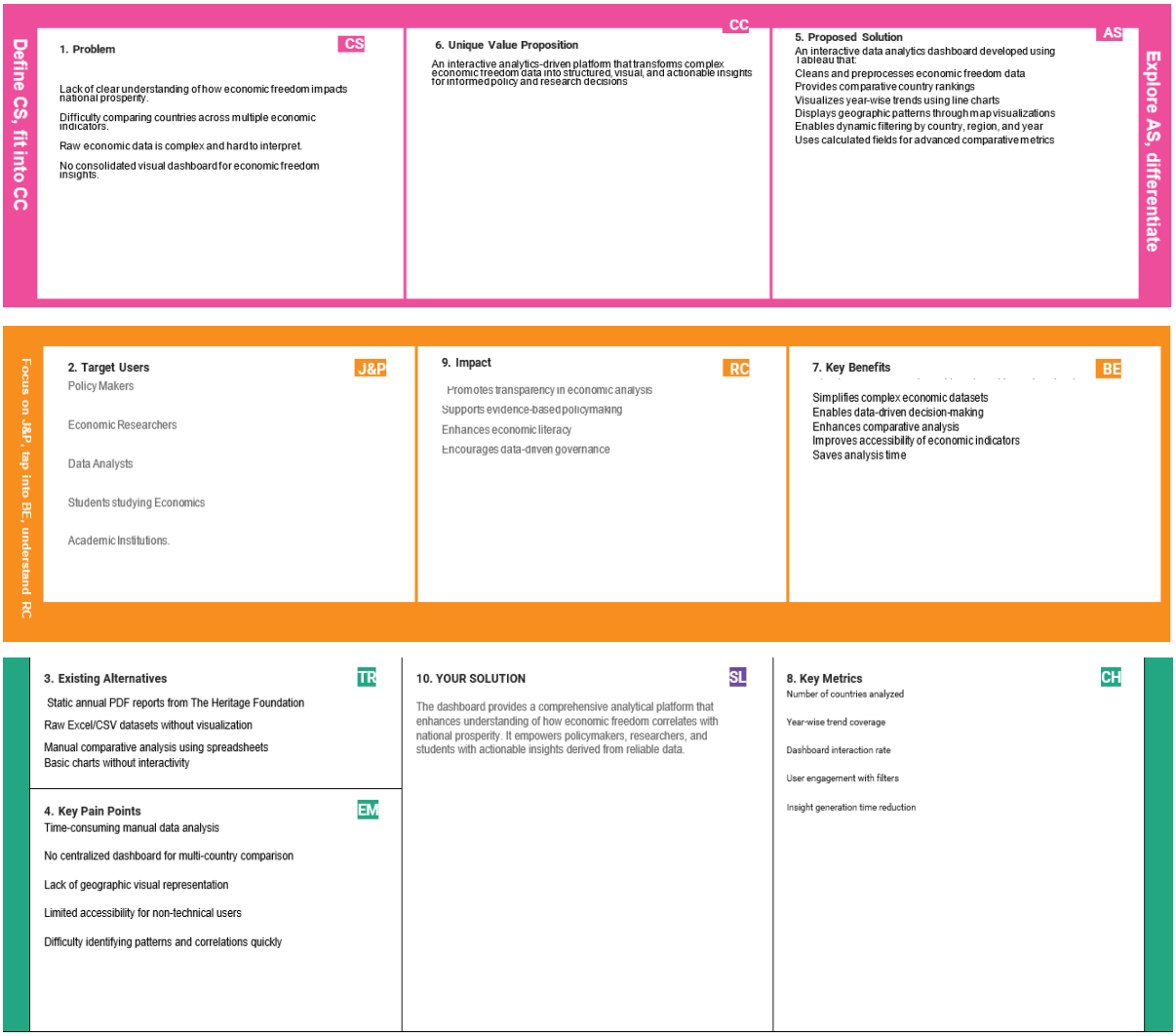
4.1 Problem Solution Fit

The Problem–Solution Fit for this project focuses on addressing the lack of accessible, structured, and interactive analysis of economic freedom data. Although reliable datasets such as the Index of Economic Freedom are publicly available, they are often presented in static reports or raw spreadsheet formats that make comparison and trend identification difficult.

Stakeholders such as policymakers, researchers, and students require a more intuitive way to analyze how economic freedom influences national prosperity. Traditional methods of manual spreadsheet analysis are time-consuming and limit deeper insights.

To address this gap, the proposed solution is an interactive Tableau-based analytics dashboard that transforms raw economic data into clear visualizations, comparative charts, and geographic insights. The dashboard enables dynamic filtering by country, region, and year, allowing users to explore economic patterns efficiently.

By aligning the identified problem (complex and inaccessible economic data) with a data-driven visualization solution, the project ensures a strong Problem–Solution Fit. The solution directly addresses the pain points of analysis complexity, lack of interactivity, and difficulty in comparison, thereby improving insight generation and decision-making**.**



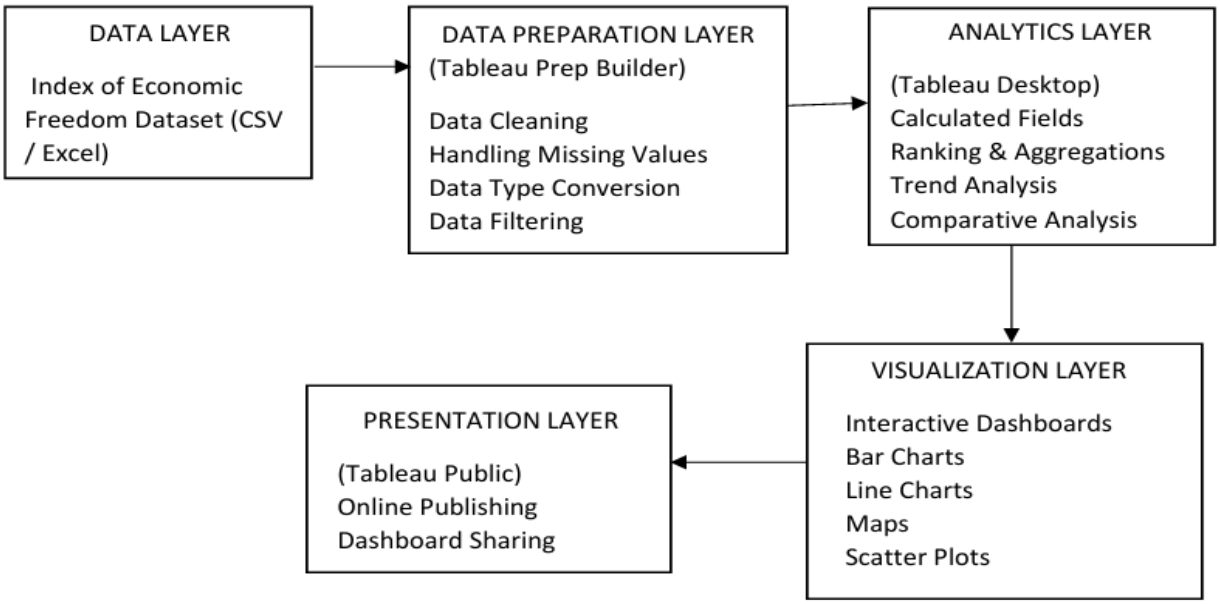
4.2 Proposed Solution

Develop an interactive Tableau dashboard system that visualizes economic freedom scores, GDP trends, and inflation impact to enable comparative economic analysis.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Although macroeconomic data is widely available, policymakers and researchers do not have a clear and easily accessible method to evaluate how economic freedom correlates with national prosperity.
2.	Idea / Solution description	The project analyzes the Economic Freedom Index using data visualization and comparative analysis tools. It provides structured dashboards, meaningful insights, and recommendations across different countries.
3.	Novelty / Uniqueness	While traditional reports already exist, this solution offers an interactive, comparative, and visually enriched platform that integrates multiple data dimensions, making it especially valuable for academic and policy-related use
4.	Social Impact / Customer Satisfaction	The solution promotes informed citizens, supports better policy decisions, and enhances transparency in economic governance. It helps identify necessary reforms to improve economic freedom and overall economic performance.

5.	Business Model (Revenue Model)	The platform can be offered as a freemium tool for students and researchers, with advanced analytics, detailed country reports, and premium insights available through subscription plans for institutions, think tanks, and NGOs.
6.	Scalability of the Solution	The solution can be expanded to include regional or state-level indices, long-term time-series trend analysis, and integration with additional global indicators such as the Human Development Index (HDI) and Corruption Perception Index (CPI).

4.3 Solution Architecture



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Import Economic Freedom dataset into Tableau	3	High	Member 1
Sprint-1	Data Cleaning	USN-2	Clean missing values and correct data types	4	High	Member 2
Sprint-1	Data Preparation	USN-3	Create calculated fields for ranking and averages	3	High	Member 1
Sprint-2	Trend Analysis	USN-4	Create year-wise trend visualization	4	High	Member 2
Sprint-2	Comparative Analysis	USN-5	Build country comparison bar charts	3	Medium	Member 1
Sprint-3	Geographic Analysis	USN-6	Create world map visualization	3	Medium	Member 2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Dashboard	USN-7	Combine visualizations into interactive dashboard	5	High	Both
Sprint-4	Publishing	USN-8	Publish dashboard on Tableau Public	2	High	Both

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	02 Feb 2026	07 Feb 2026	20	08 Feb 2026
Sprint-2	20	6 Days	05 Feb 2026	10 Feb 2026	20	10 Feb 2026
Sprint-3	20	6 Days	08 Feb 2026	13 Feb 2026	20	13 Feb 2026
Sprint-4	20	6 Days	14 Feb 2026	19 Feb 2026	20	19 Feb 2026

Average Per Iteration Unit Calculation Given: Sprint Duration = 18 days and Team Velocity = 20 story points per sprint. Now the Formula:

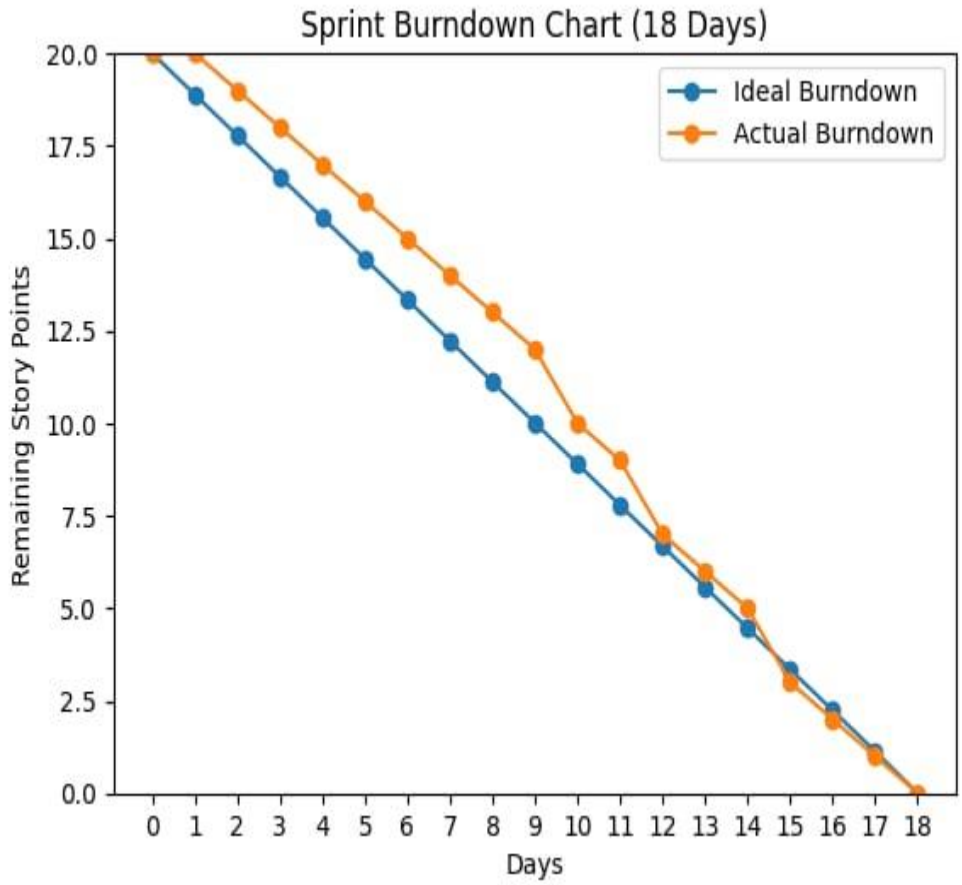
Average per iteration unit=Velocity ÷ Sprint Duration = 20÷18 = 1.11 story points per day (approx)

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

X-axis → Days

Y-axis → Remaining Story Points



6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Performance Testing

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Dataset successfully connected from MySQL (Index of Economic Freedom Analysis). Total Rows: 183 Total Columns: 32 Storage Engine: InnoDB Data Size: 82.0 KiB Data loaded successfully into Tableau without performance delay.
2.	Data Preprocessing	• Removed duplicate records • Handled missing/null values • Converted economic indicators into numeric format • Standardized country names • Verified data types (Integer, Float, String)

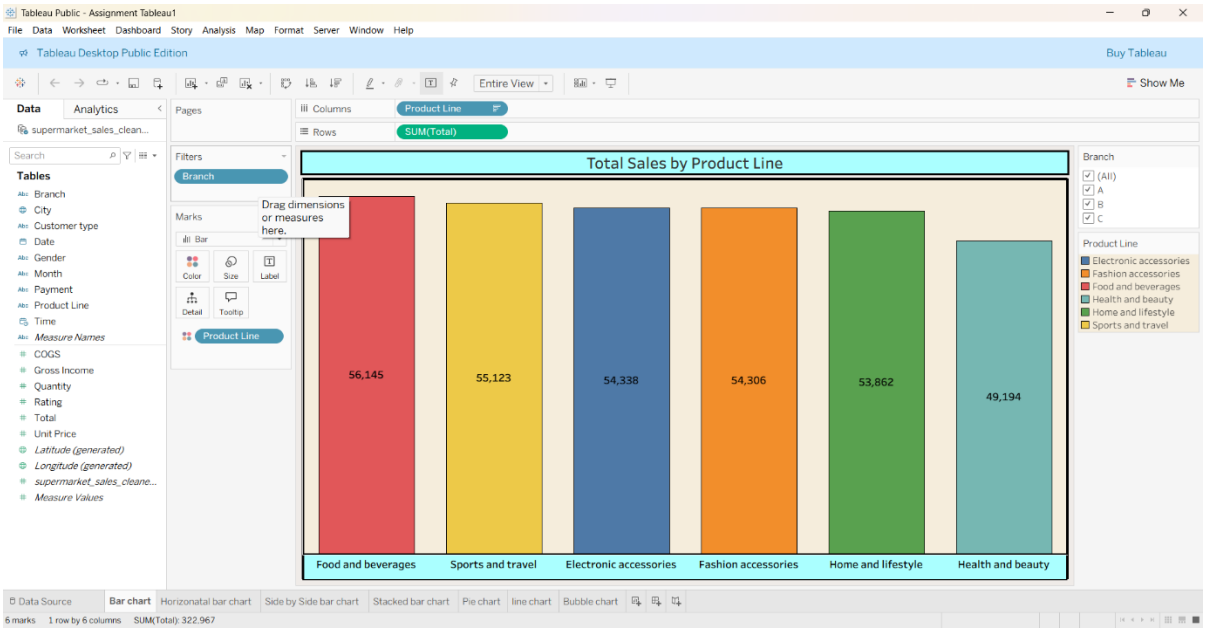
		• Checked data consistency before visualization
3.	Utilization of Filters	Filters Used: • Country Filter • Region Filter • Year Filter (2022) • Economic Freedom Category Filter • Top/Bottom 40 Selection Filter
4.	Calculation fields Used	Calculated Fields Created: • Average Economic Freedom Score • GDP vs Economic Freedom Comparison • Inflation Impact Analysis • Top 40 Ranking Calculation • Bottom 40 Ranking Calculation These calculated fields enhanced analytical insights.
5.	Dashboard design	Number of Dashboards: 5 Total Visualizations Used in Dashboards: 11 Dashboard types include: • Map Visualizations • Bar Charts • Tree map • Comparative Charts
6	Story Design	Number of Stories Created: 5 Each story contains multiple visualizations explaining: • Global Economic Distribution • Index Score Relationships • Inflation Impact • GDP Analysis • Top vs Bottom Country Comparison

7. RESULTS

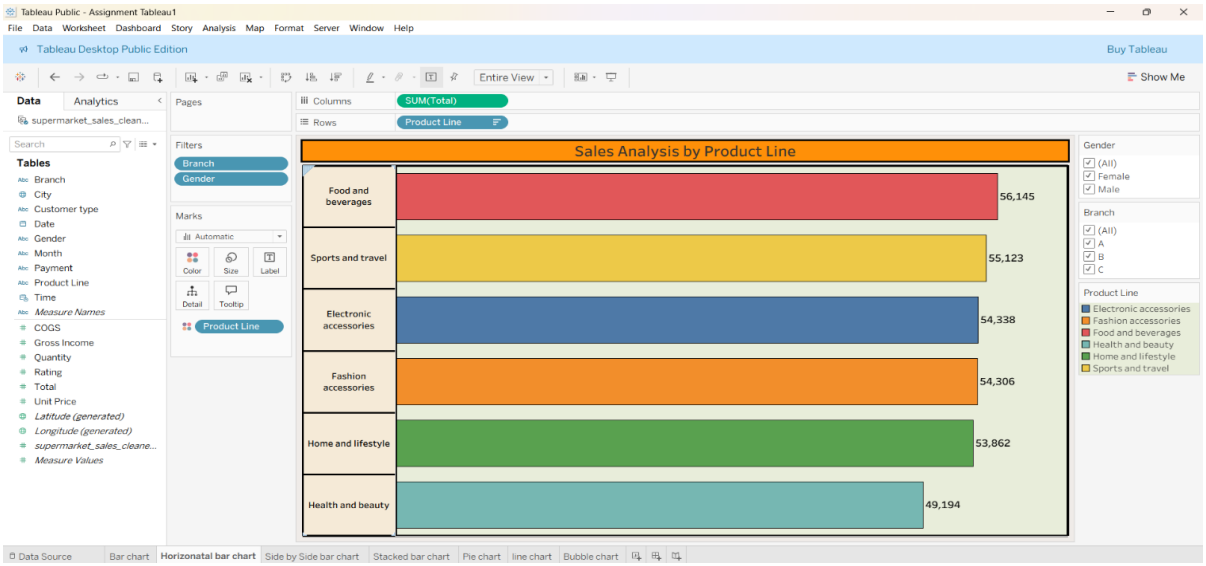
7.1 Output Screenshots

Assignment 1:

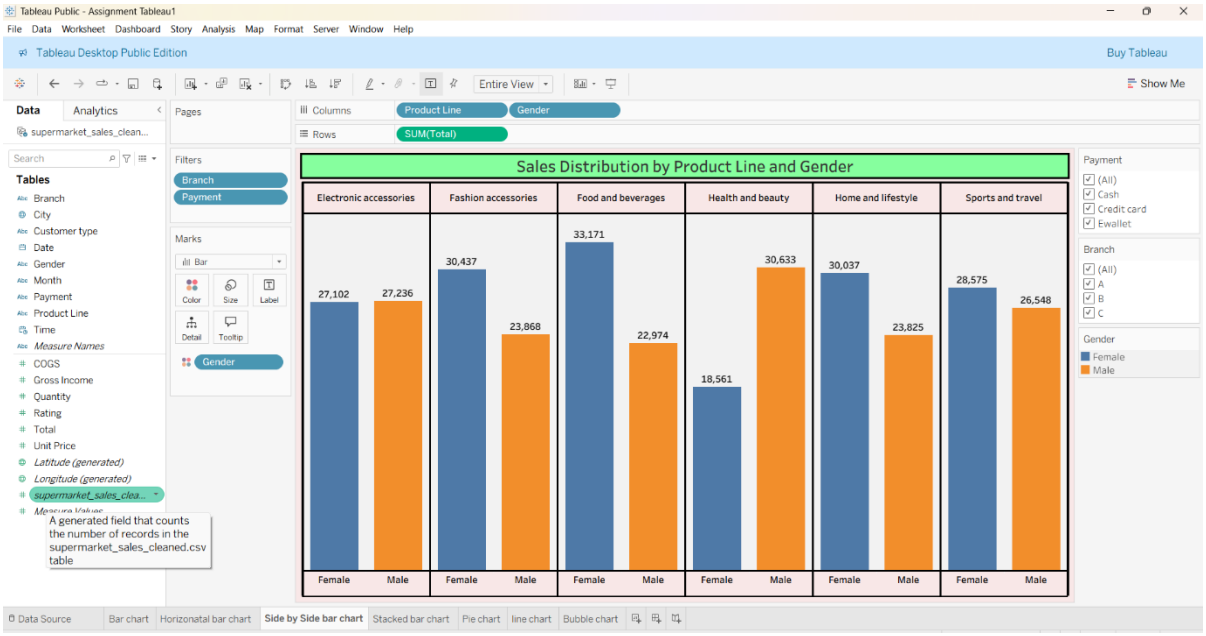
1. Bar chart



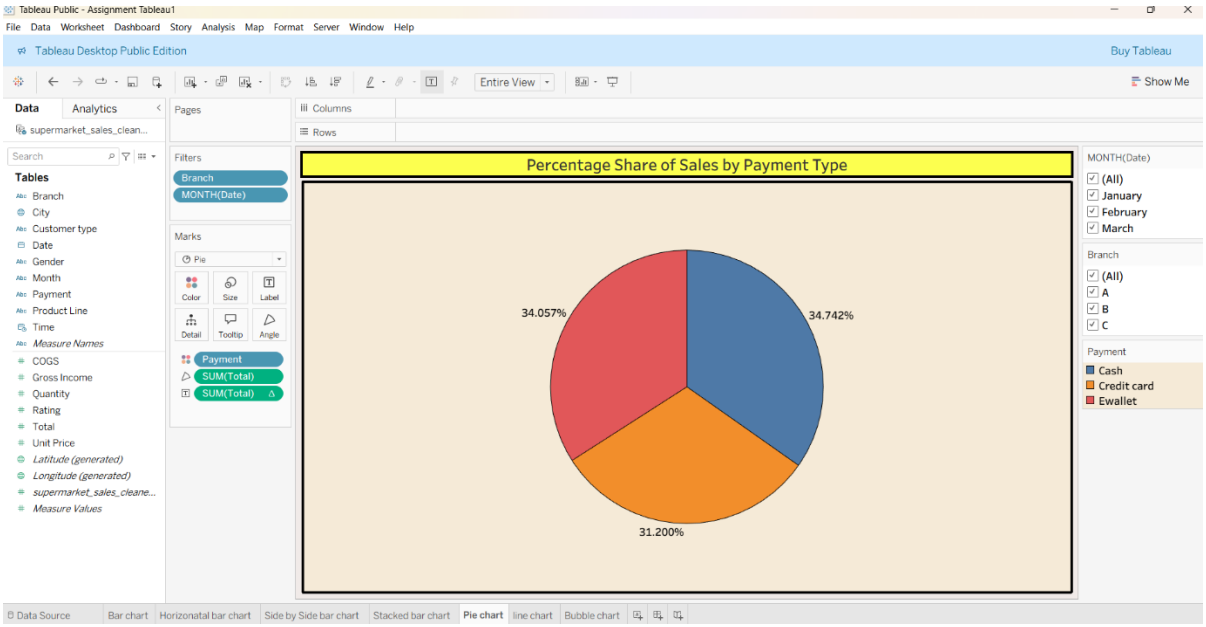
Horizontal Bar chart



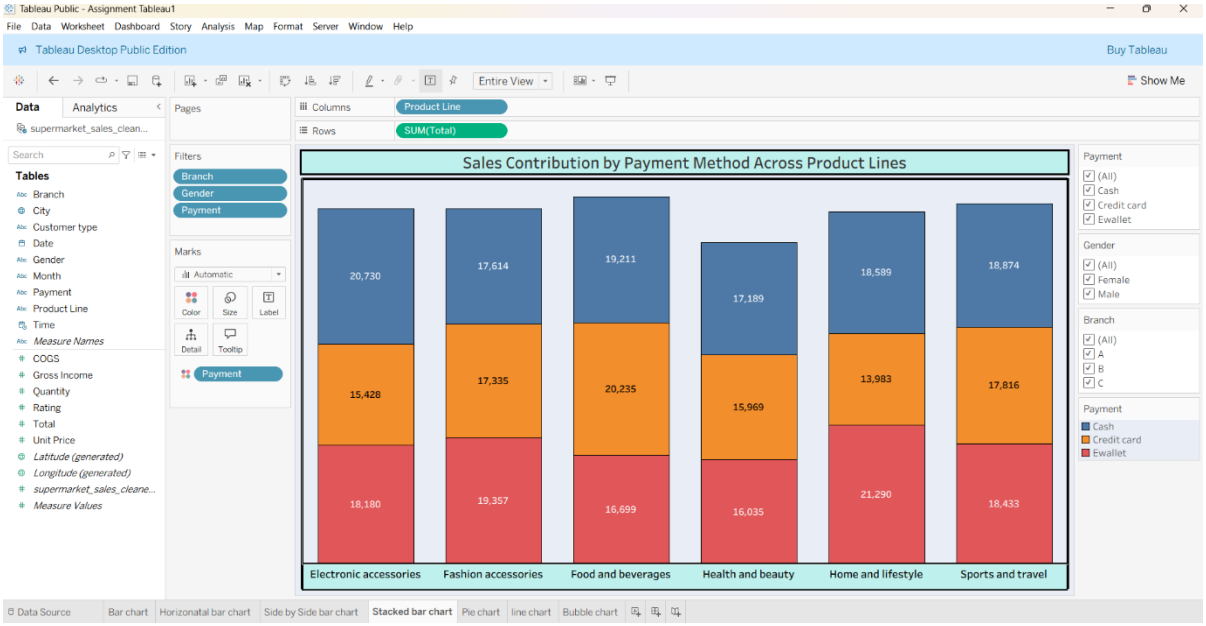
Side by Side Bar Chart



2. Pie Chart



3. Stacked Bar Chart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15,428
18,180
17,614
17,335
19,357
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15,969
16,035
18,589
13,983
21,290
18,874
17,816
18,433
Electronic accessories
Fashion accessories
Food and beverages
Health and beauty
Home and lifestyle
Sports and travel
Payment
(All)
Cash
Credit card
Ewallet
Gender
(All)
Female
Male
Branch
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Data Source
Bar chart
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Side by Side bar chart
Stacked bar chart
Pie chart
line chart
Bubble chart

4. Line Chart

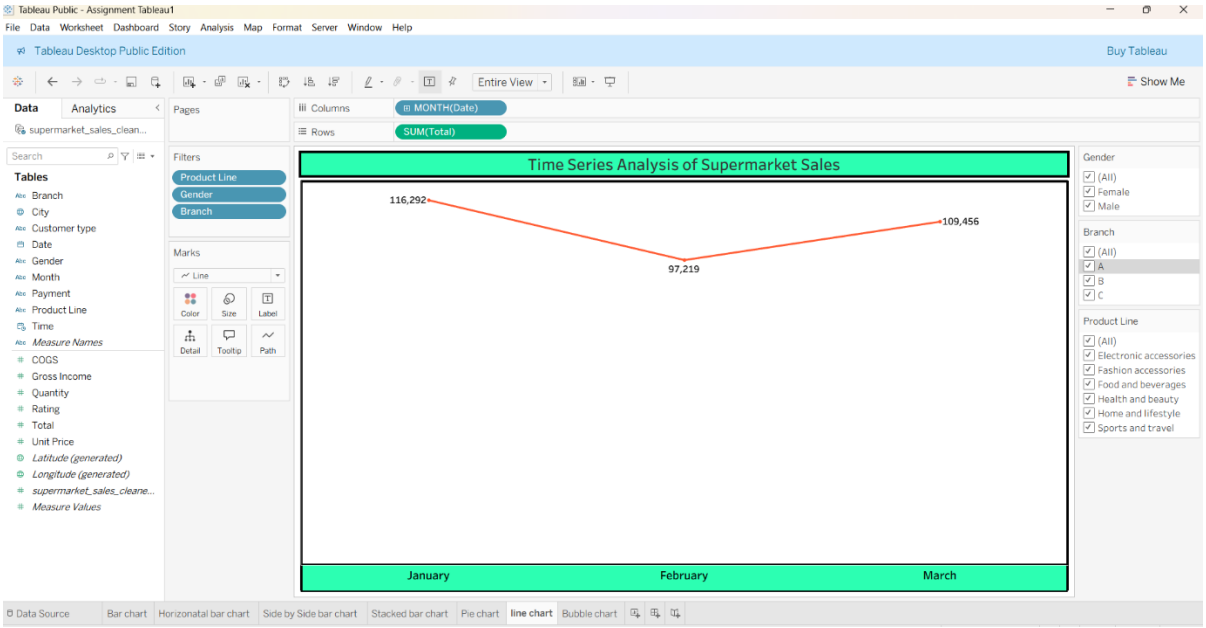
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Tableau Desktop Public Edition
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Entire View
Show Me
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Analytics
supermarket_sales_clean...
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Columns
MONTH(Date)
Rows
SUM(Total)
Filters
Product Line
Gender
Branch
Marks
Line
Color
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Detail
Tooltip
Path
Time Series Analysis of Supermarket Sales
116,292
97,219
109,456
January
February
March
Gender
(All)
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Male
Branch
(All)
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Product Line
(All)
Electronic accessories
Fashion accessories
Food and beverages
Health and beauty
Home and lifestyle
Sports and travel
Data Source
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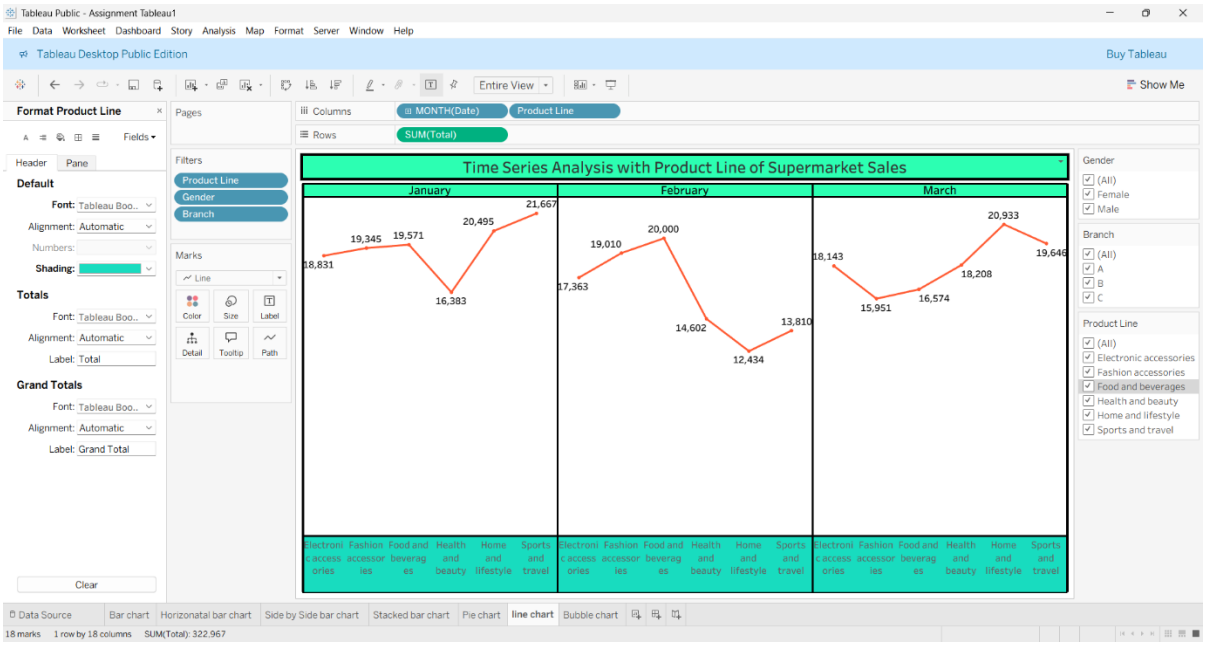
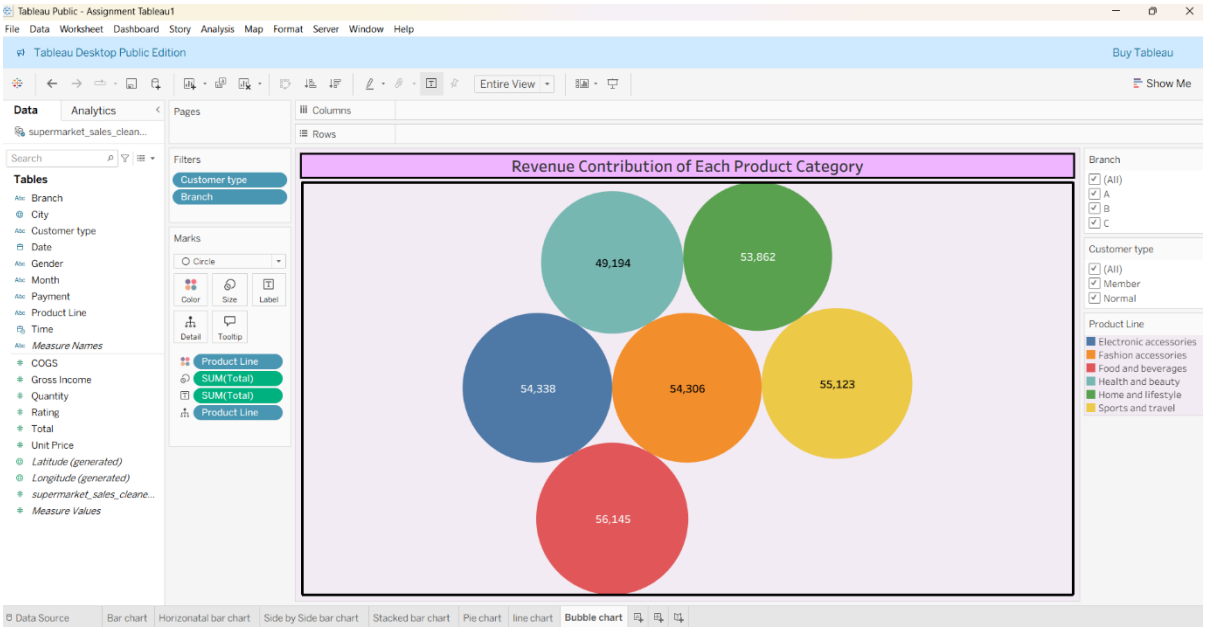
Side by Side bar chart
Stacked bar chart
Pie chart
line chart
Bubble chart

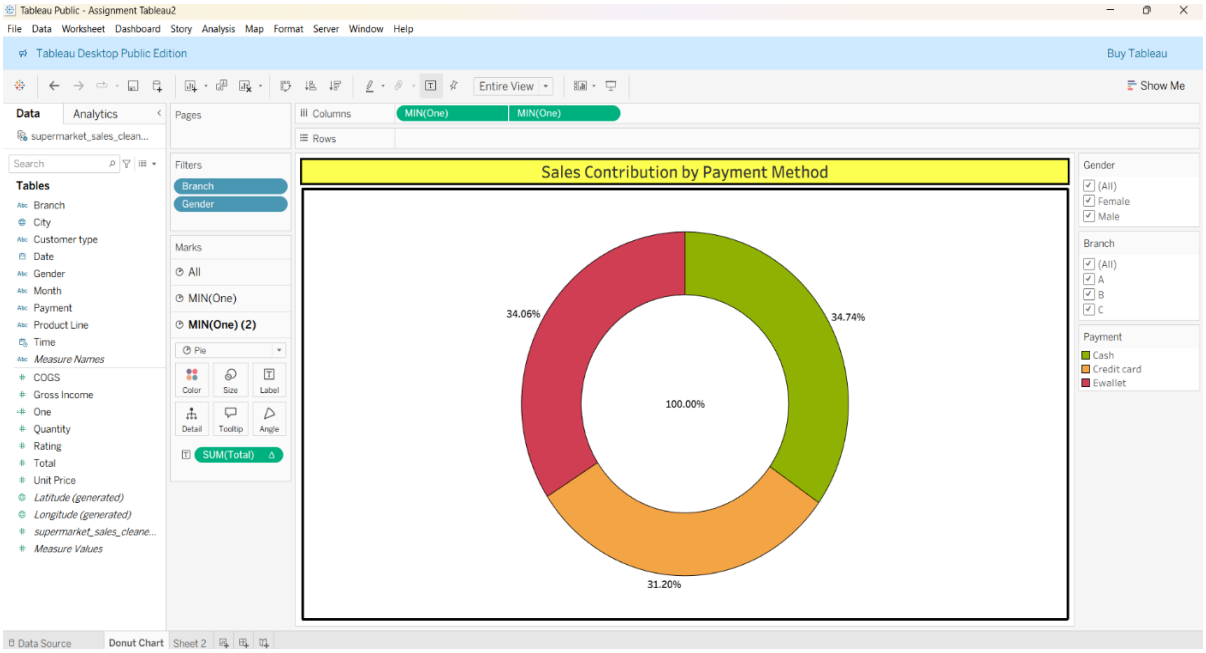


5. Bubble Chart

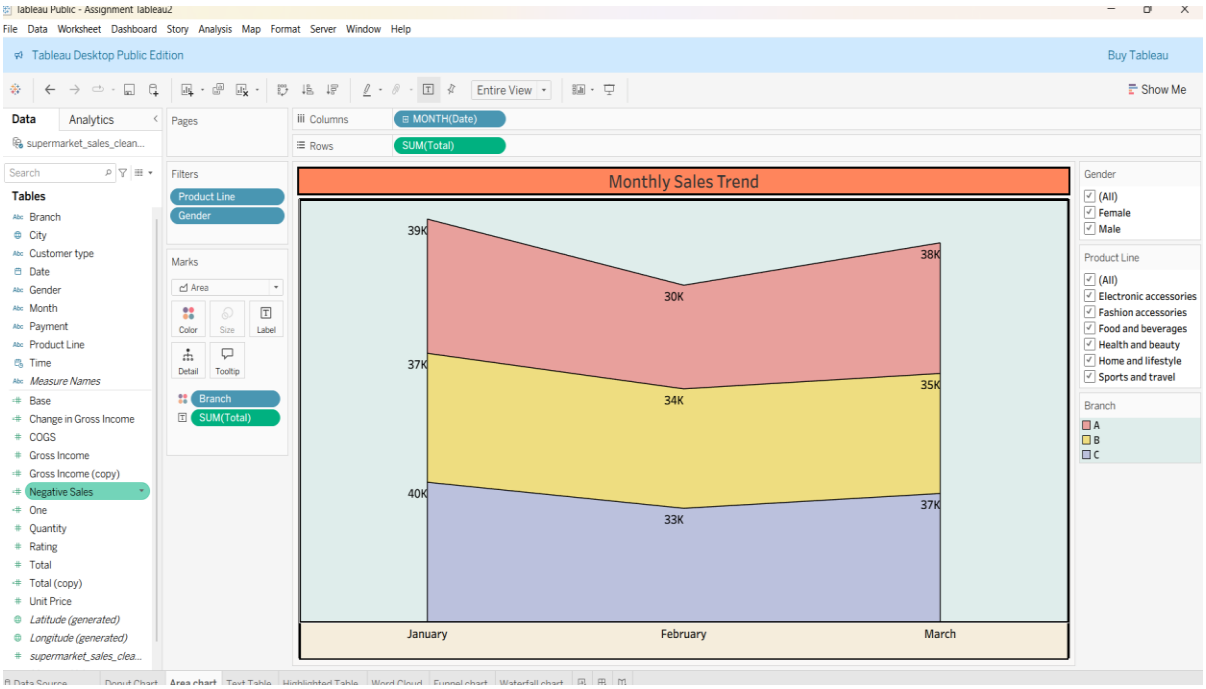


Assignment 2:

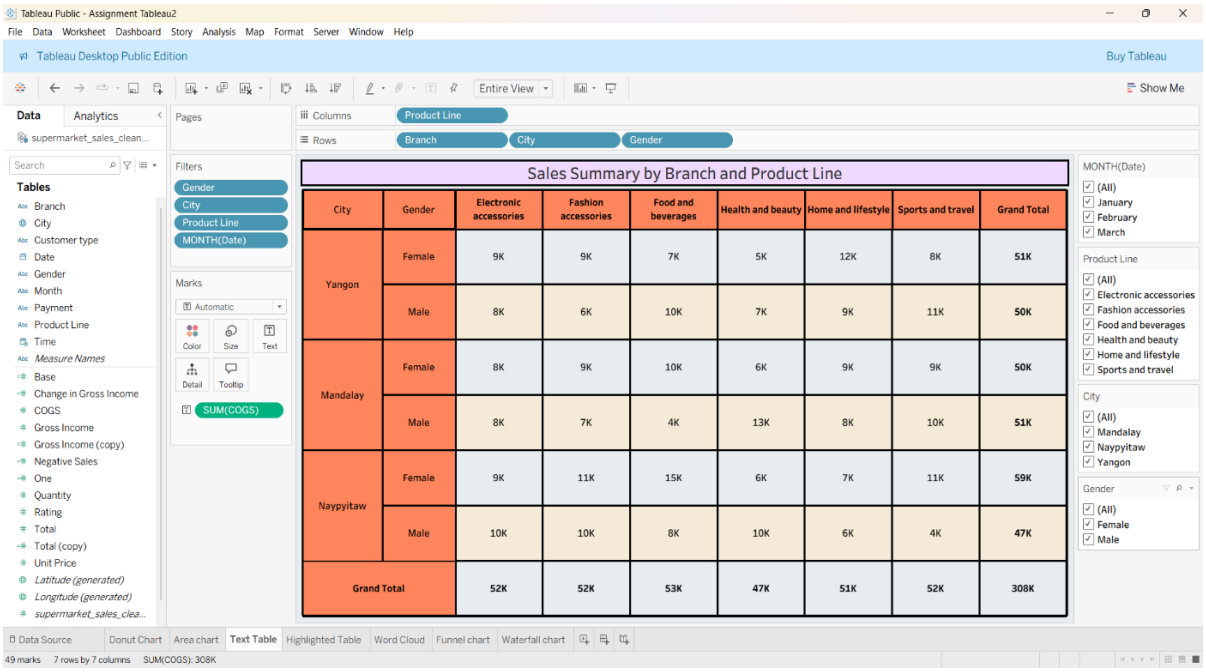
Donut Chart



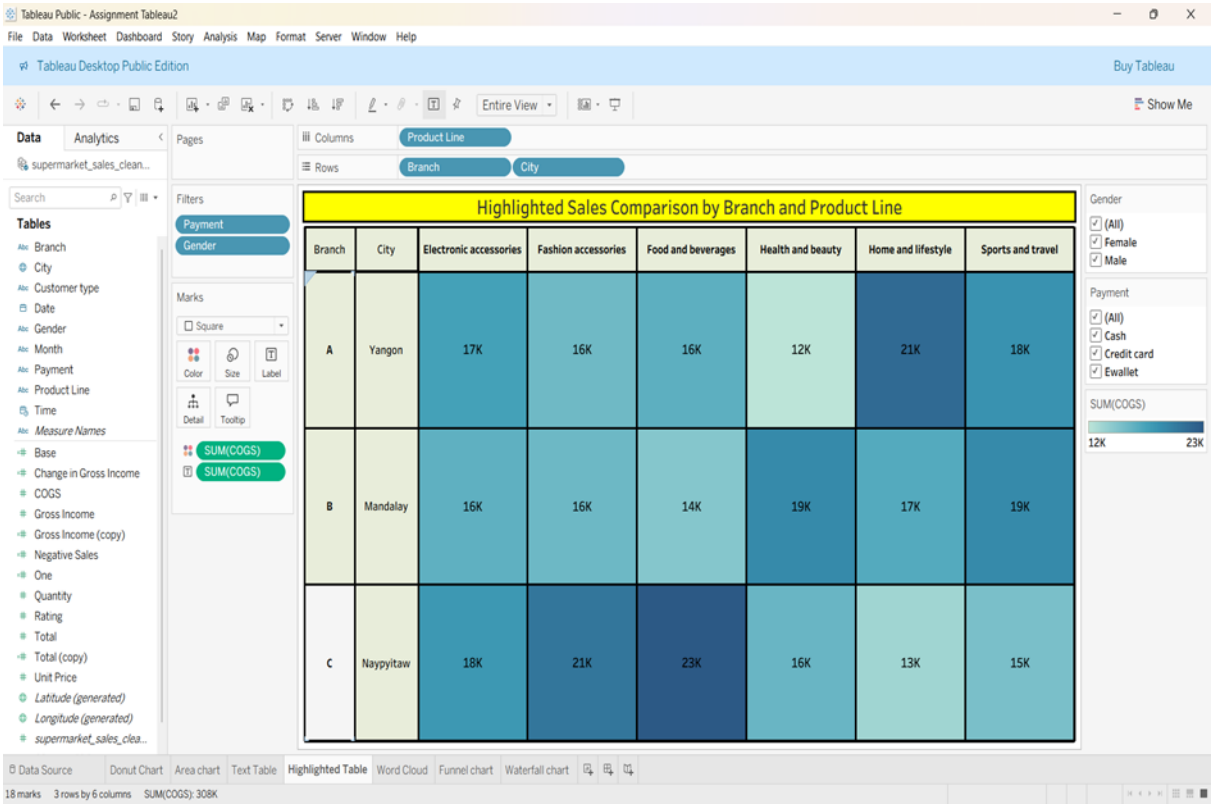
Area Chart



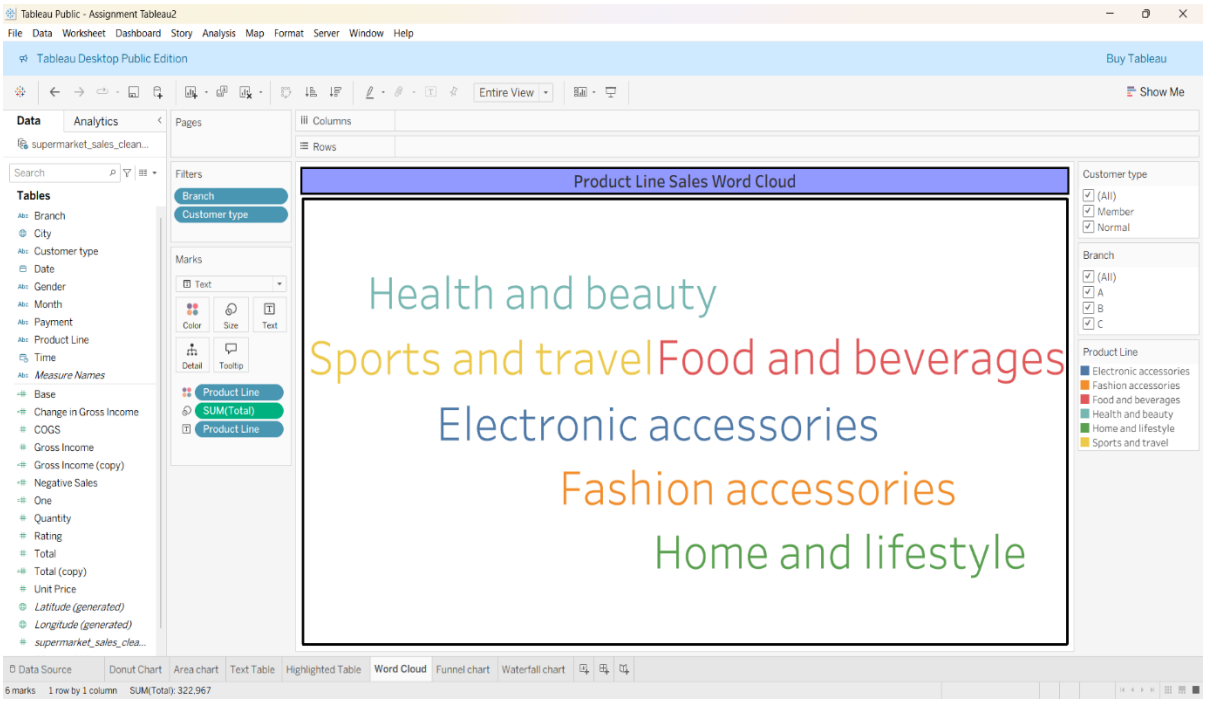
Text Table



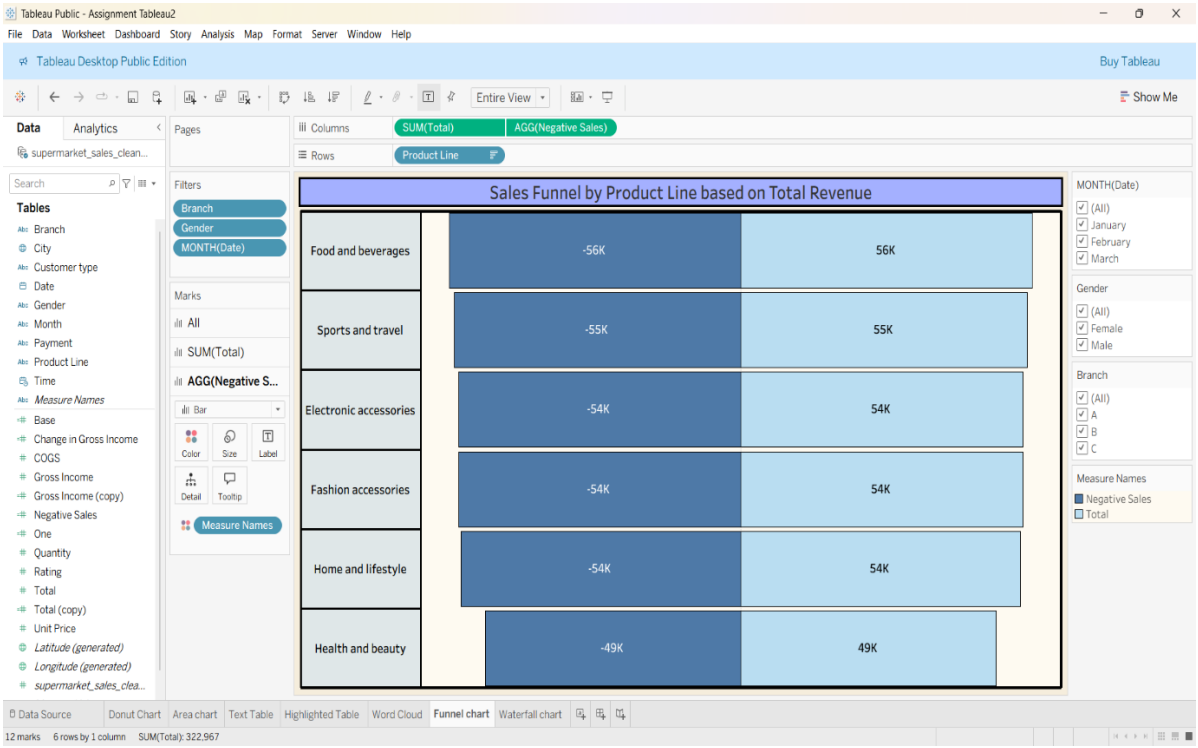
Highlighted Table



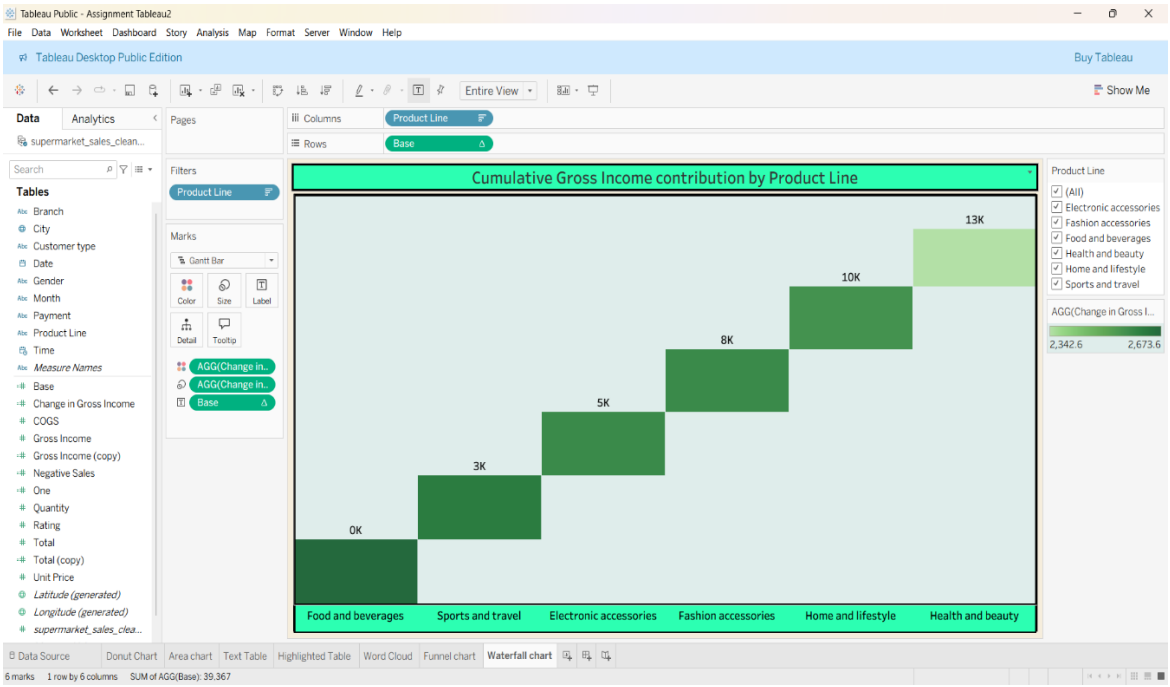
Word Cloud



Funnel chart

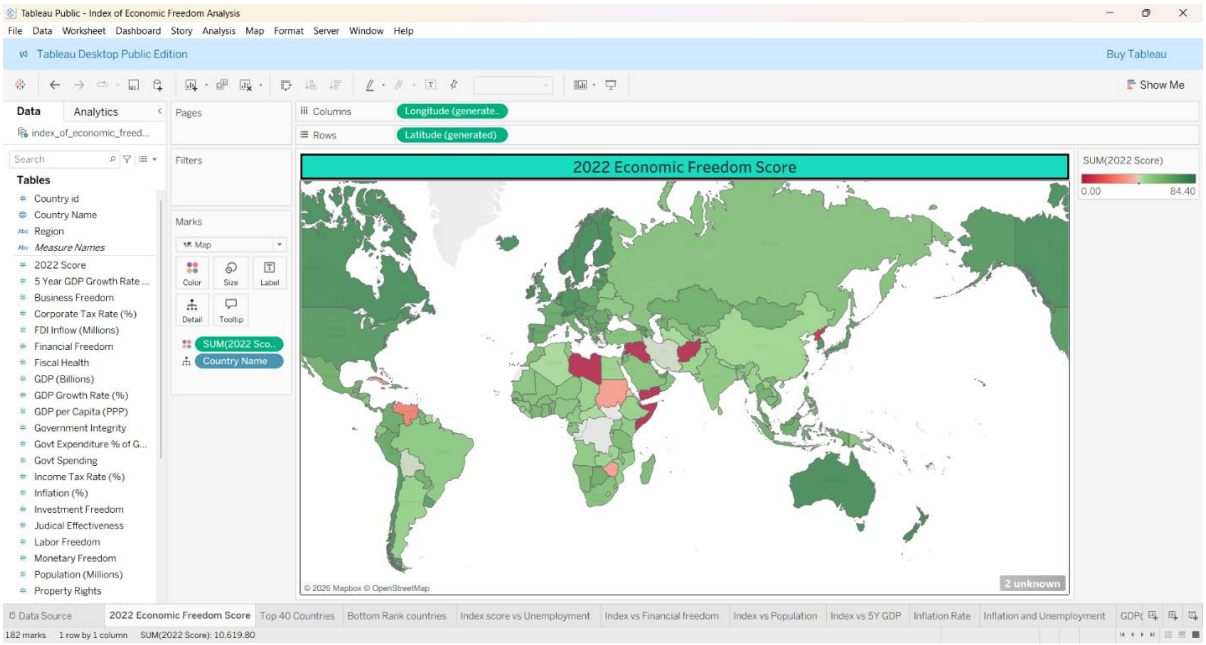


Waterfall chart

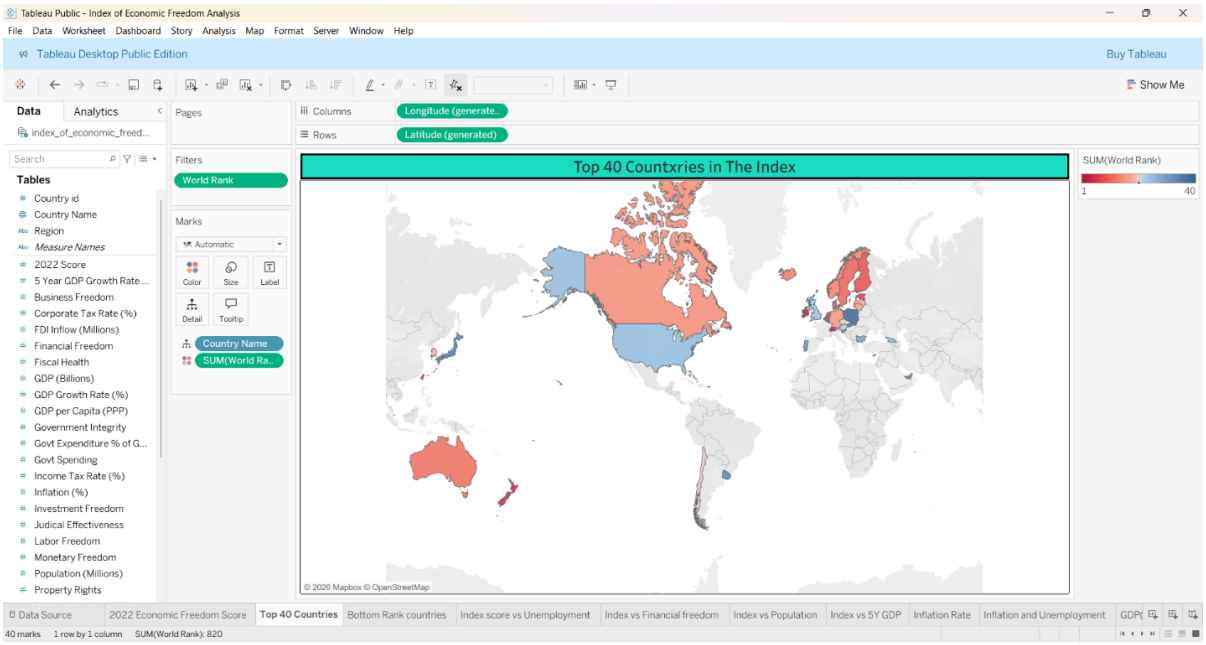


Visualizations

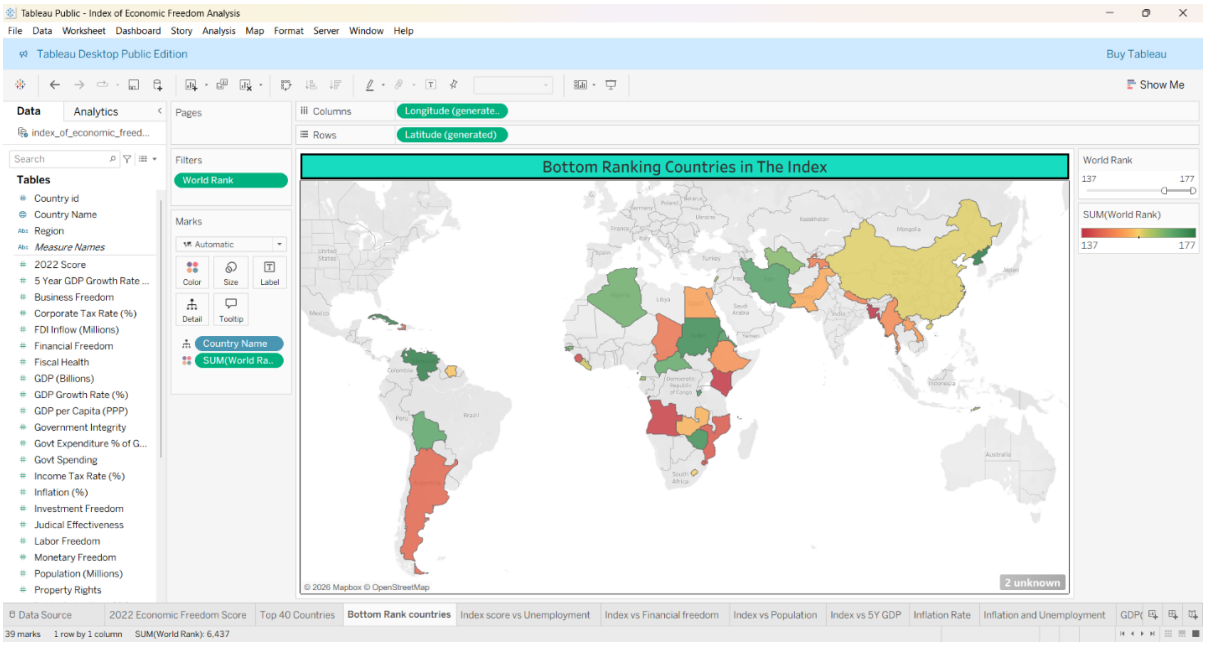
- 2022 Economic Freedom Score



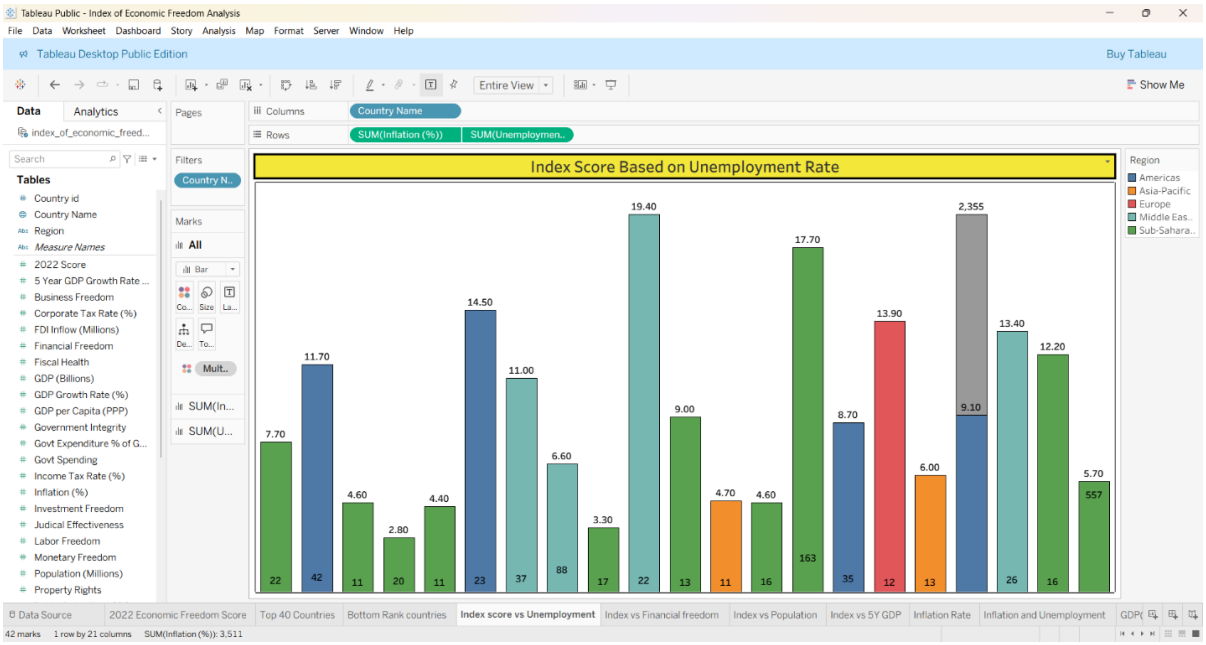
- Top 40 Ranking Countries in the Index



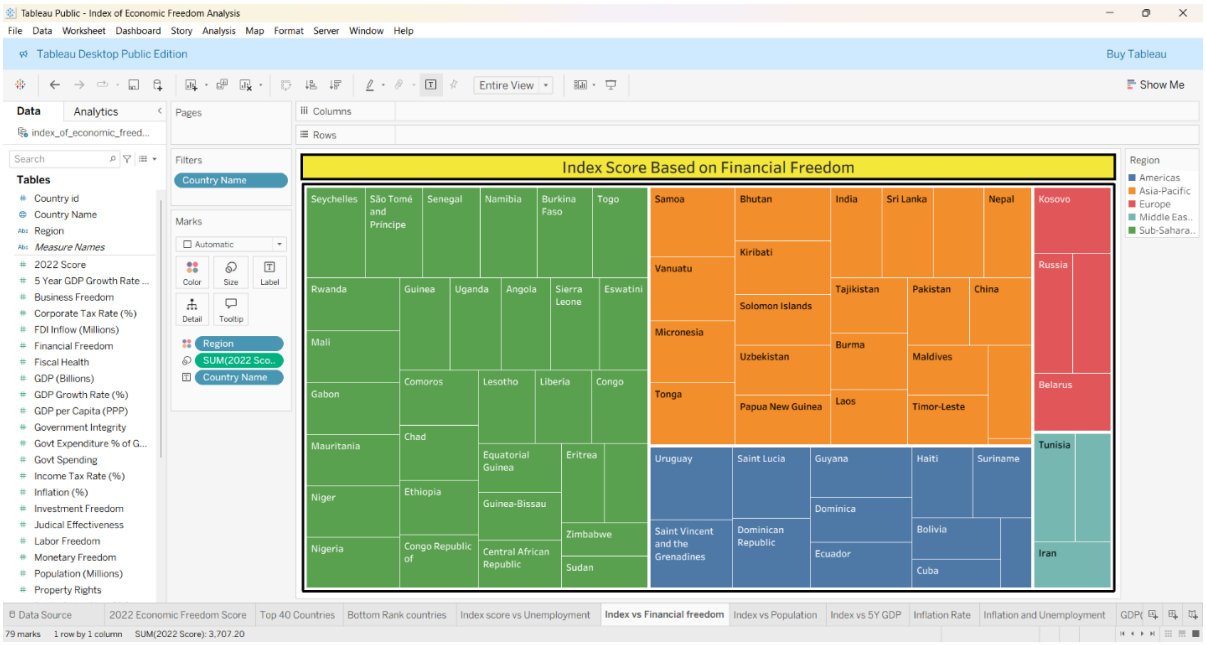
- Bottom Ranking Countries in the Index



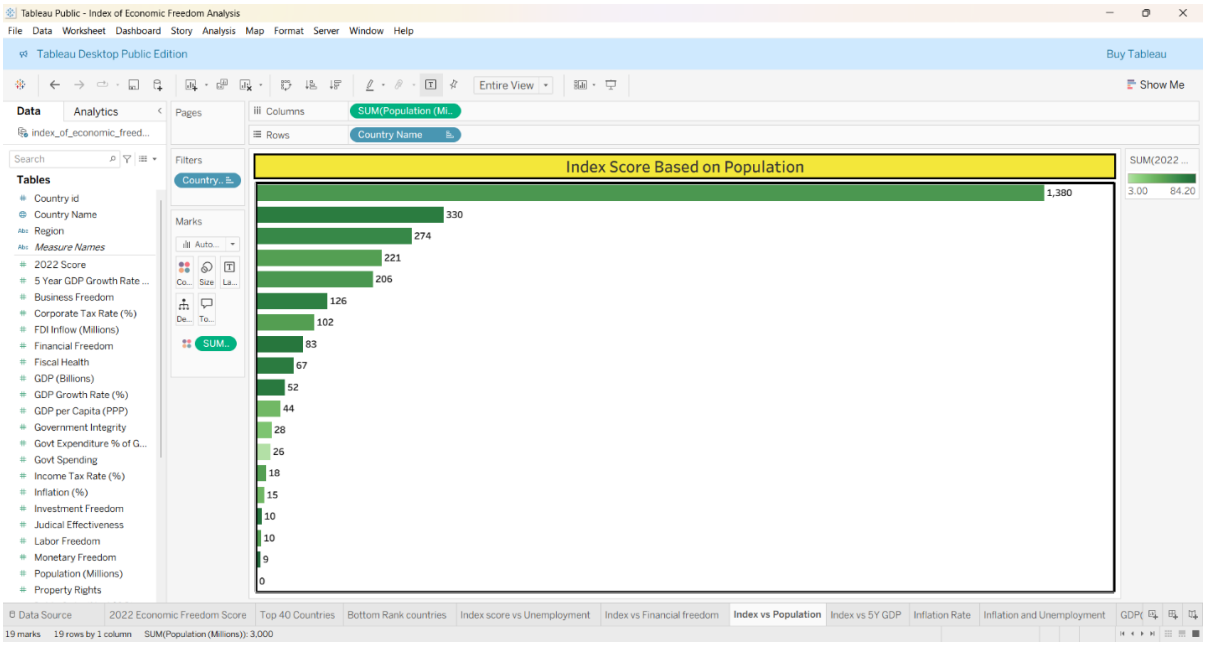
- Index Score Based on Unemployment Rate



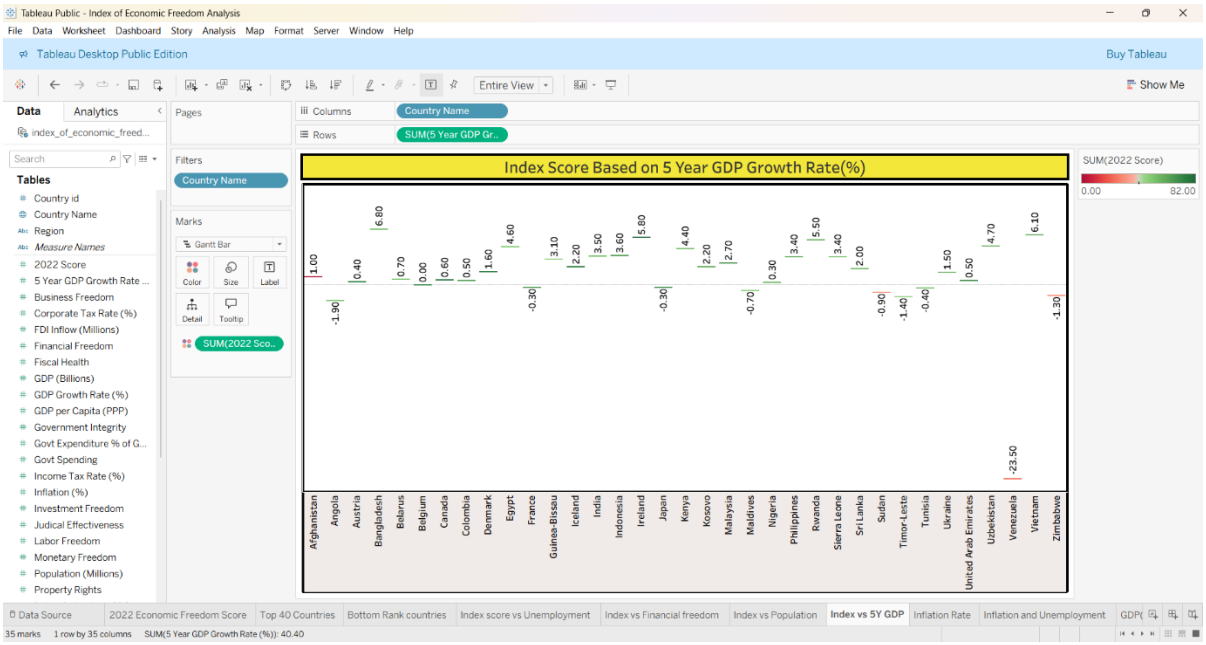
- Index Score Based on Financial Freedom



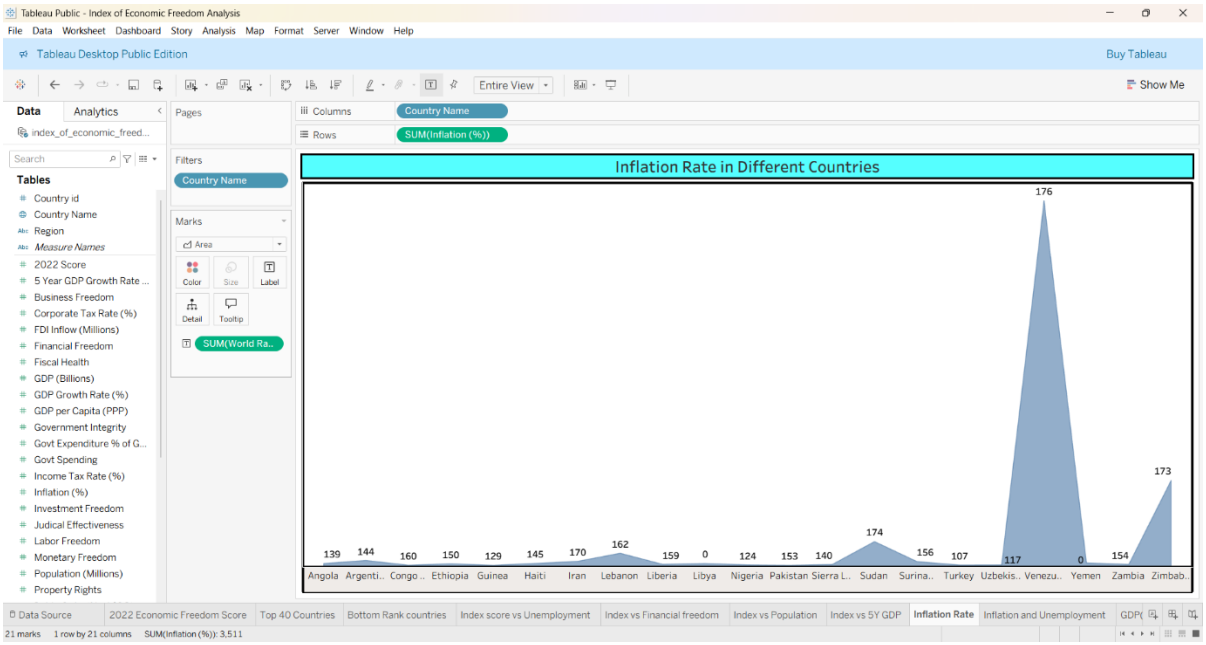
- Index Score Based on Population



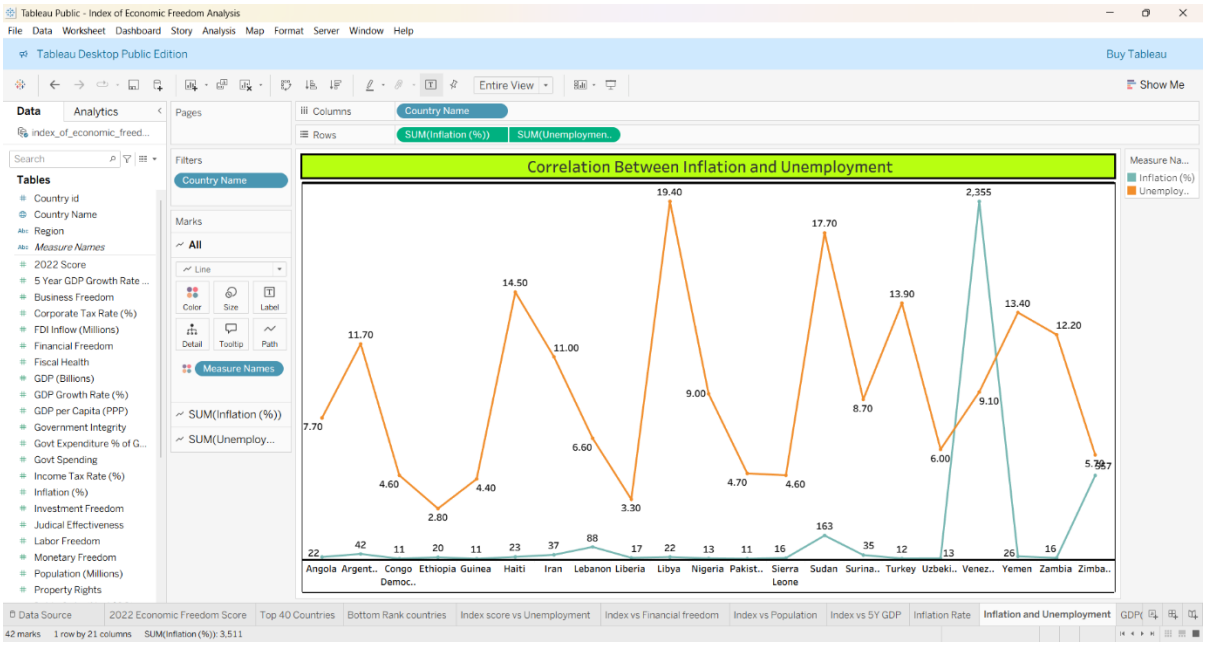
- Index Score Based on 5-Year GDP Growth Rate



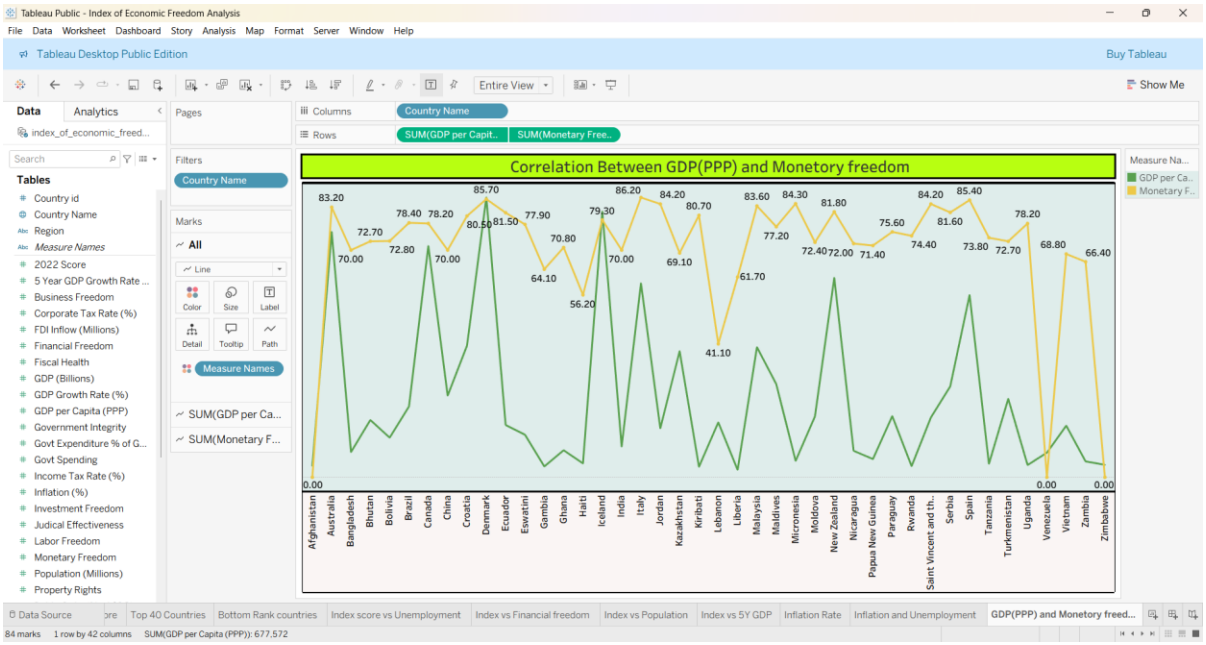
- Inflation Rate in Different Countries



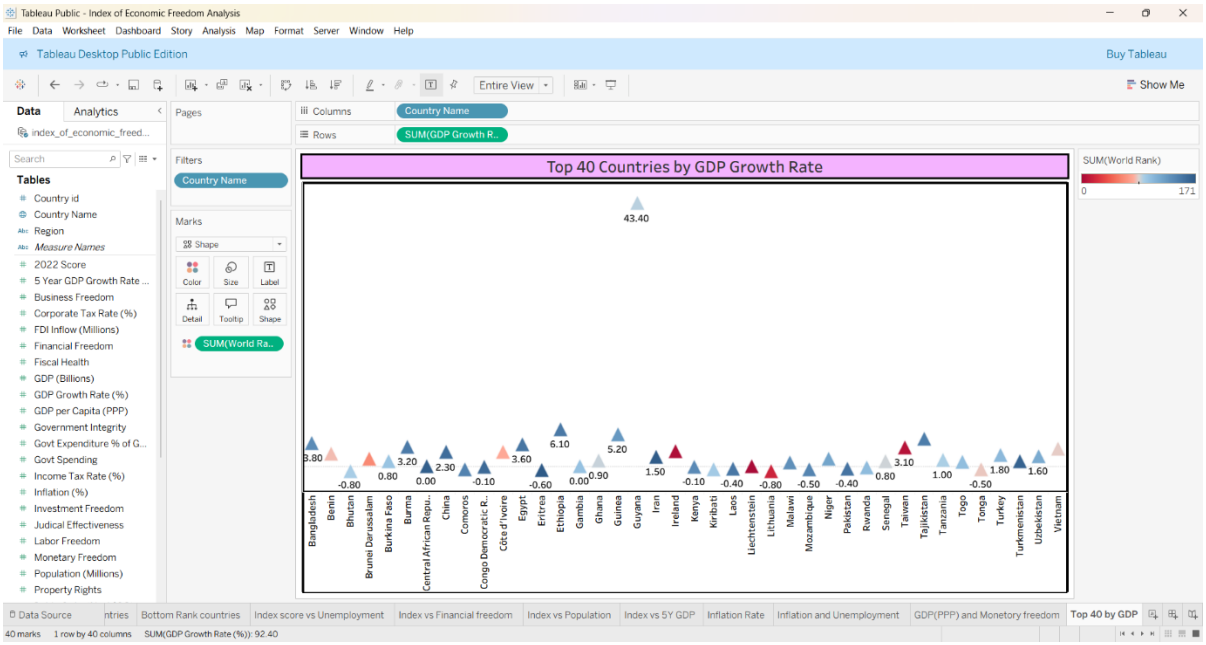
- Correlation Between Inflation and Unemployment



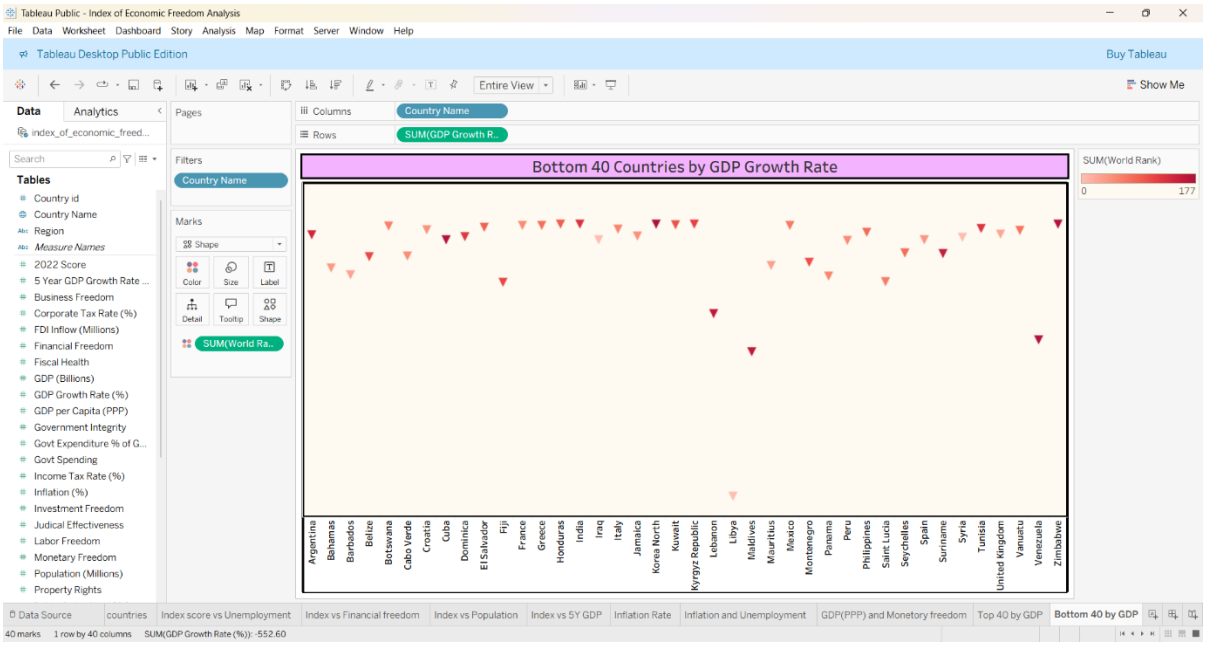
- Correlation Between GDP (PPP) and Monetary Freedom



- Top 40 Countries by GDP Growth Rate



- Bottom 40 Countries by GDP Growth Rate



Dashboards:

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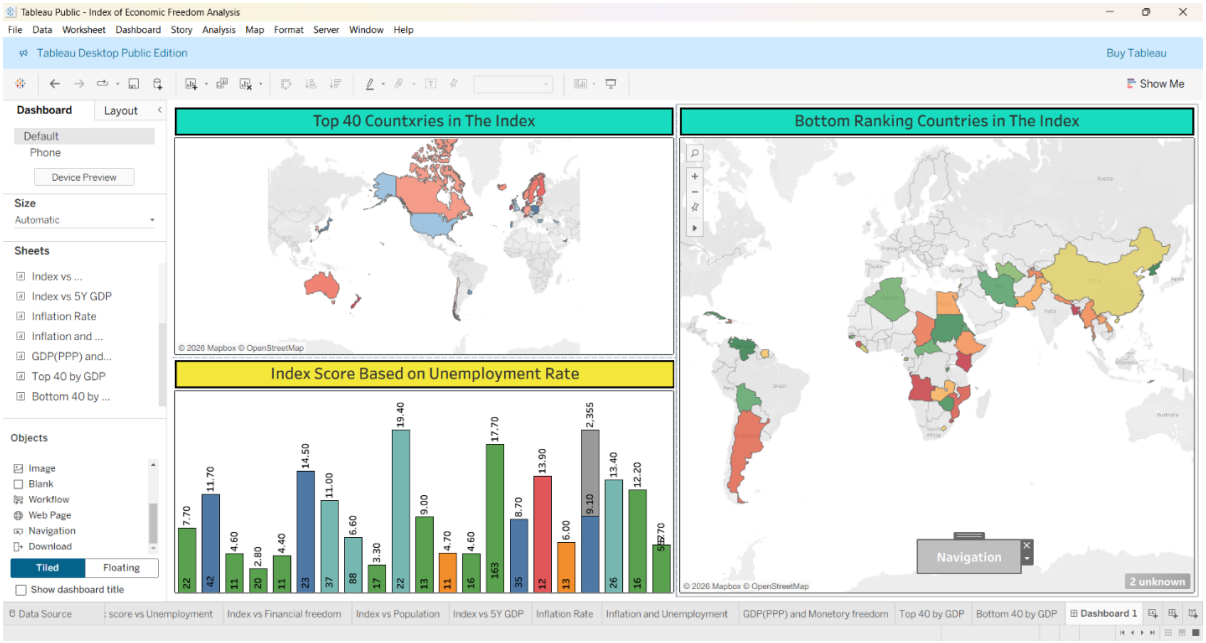
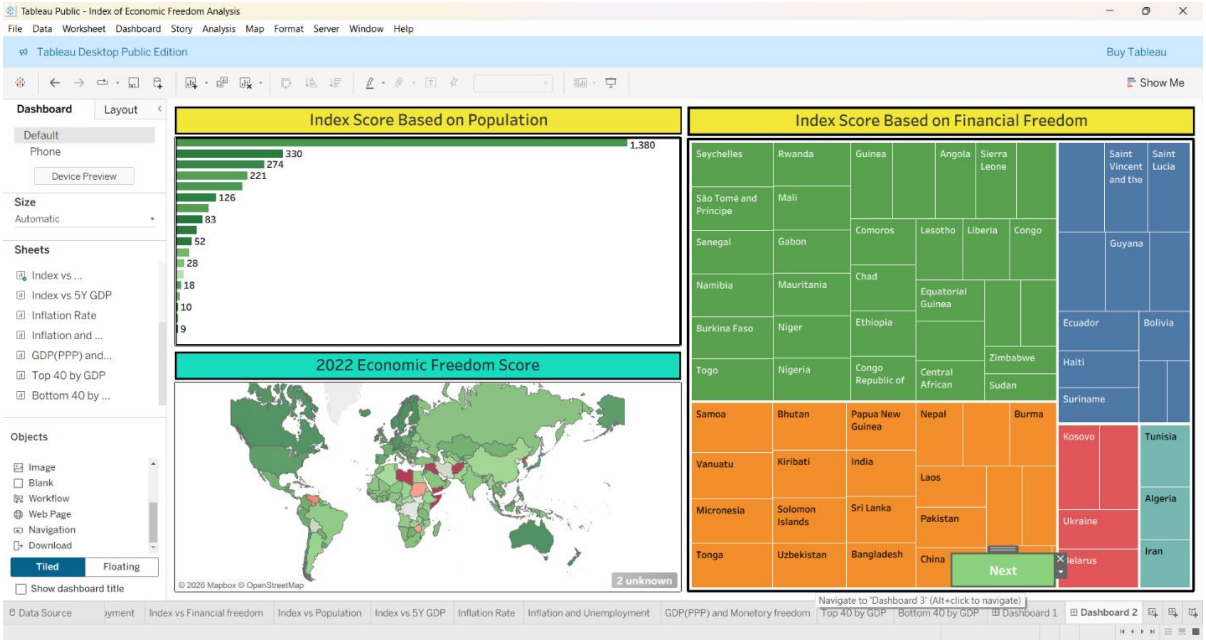
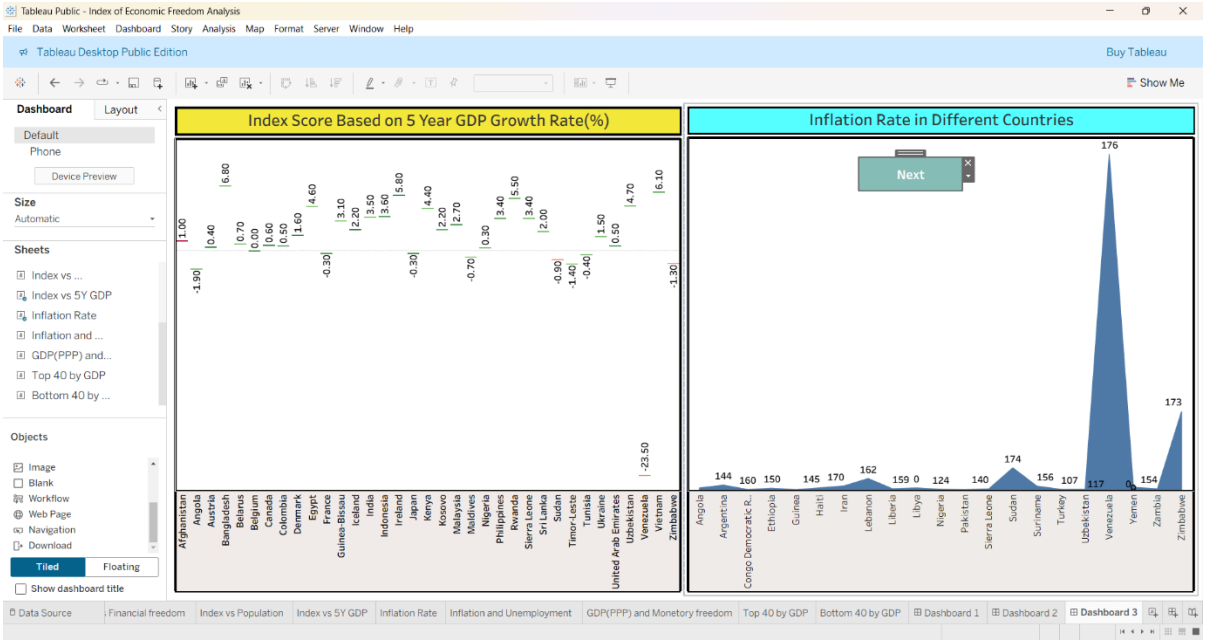


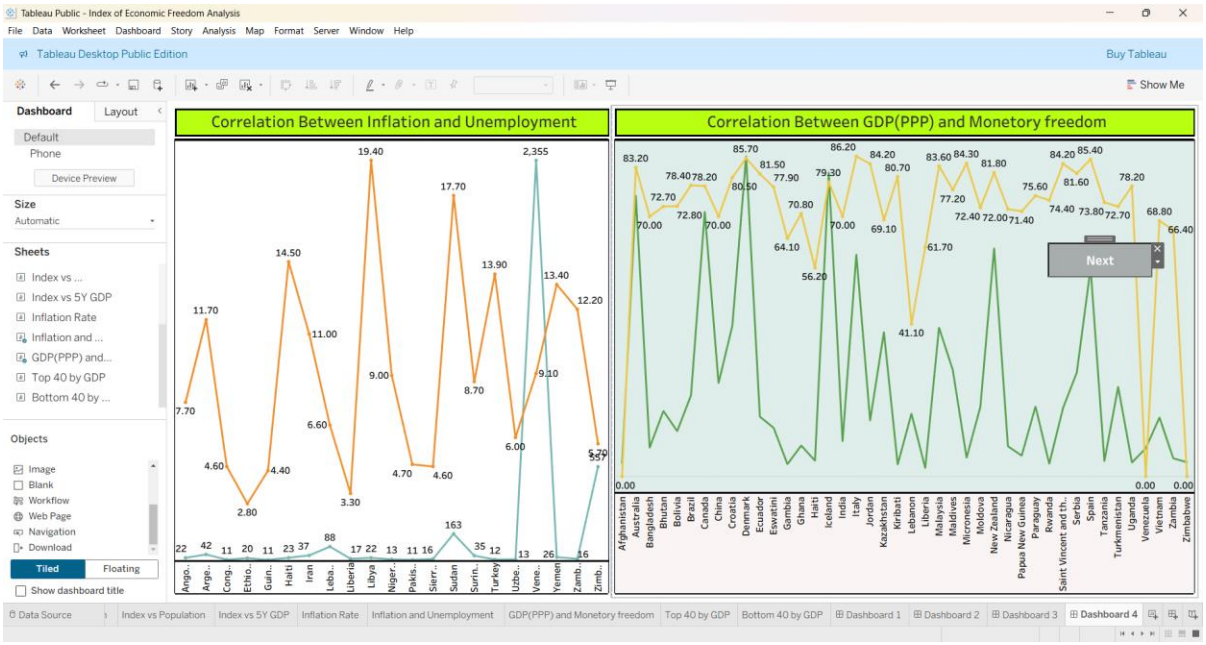
Dashboard 2

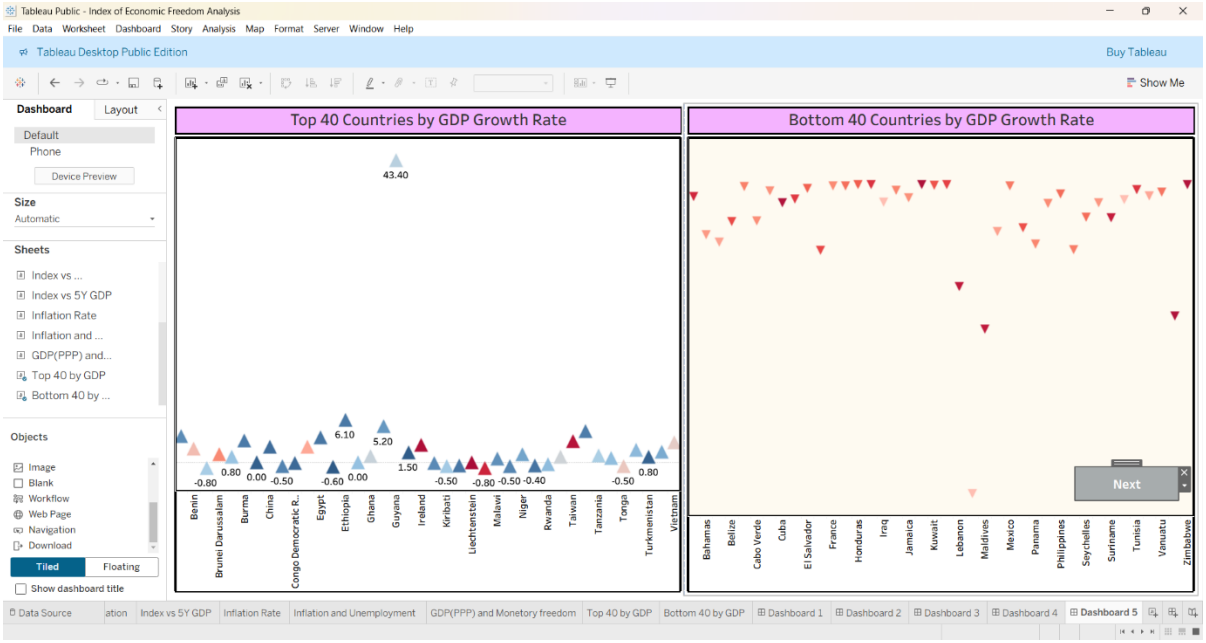


Dashboard 3



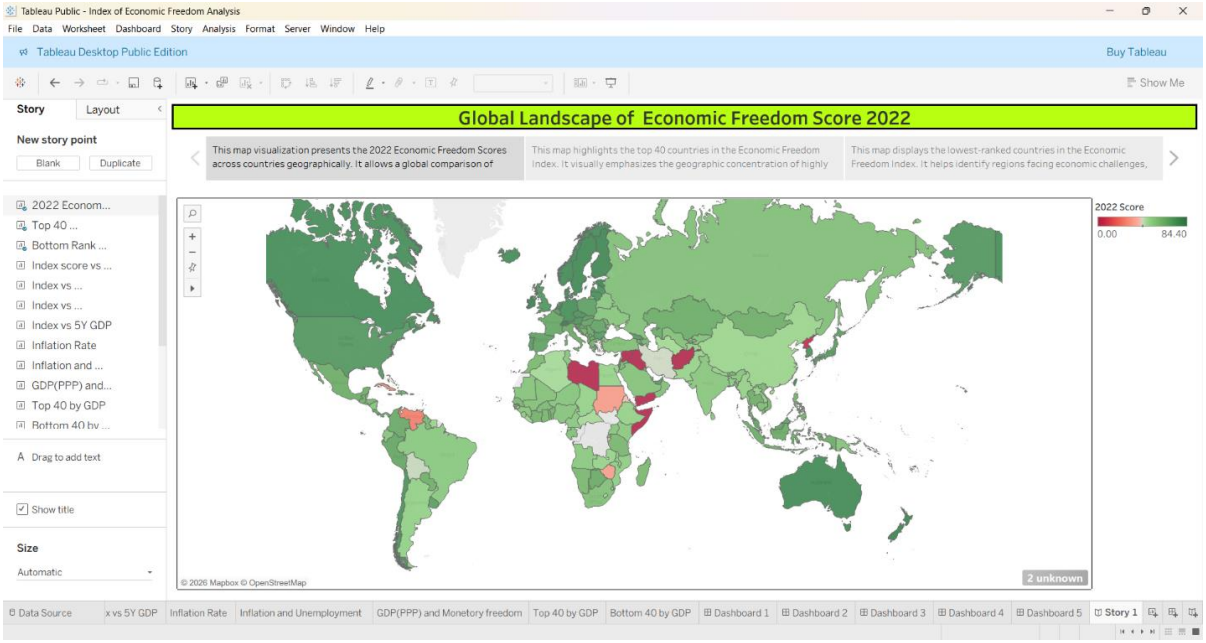
Dashboard 4





Stories:

Story 1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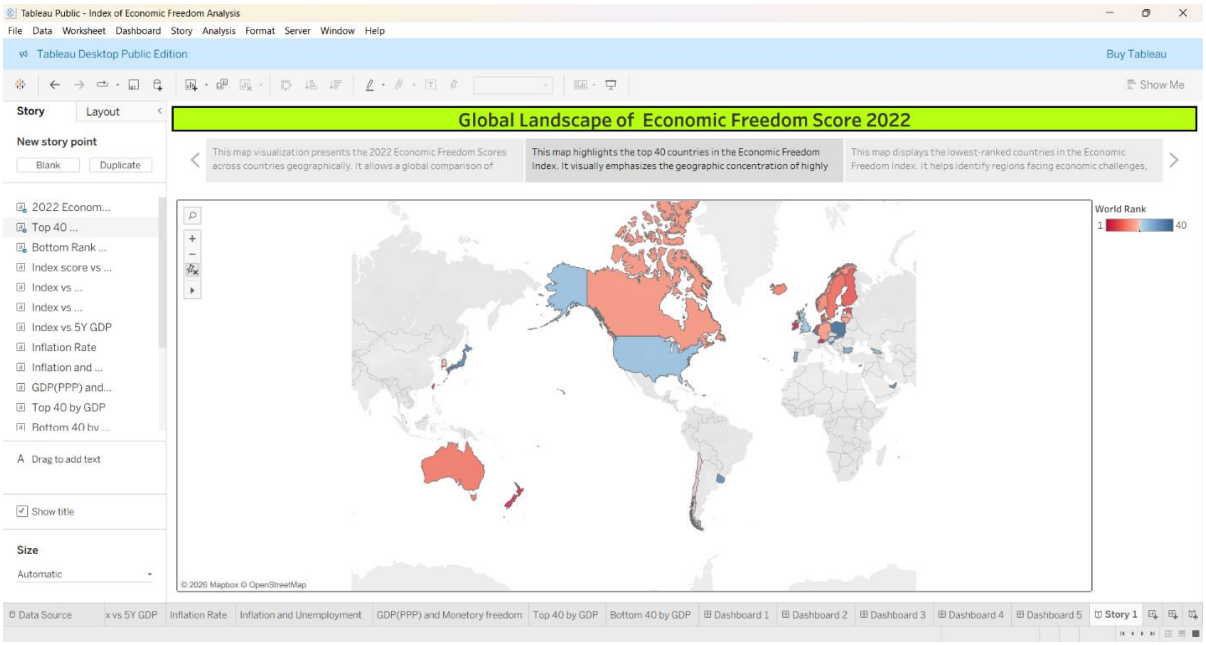
Global Landscape of Economic Freedom Score 2022
This map visualization presents the 2022 Economic Freedom Scores across countries geographically. It allows a global comparison of
This map highlights the top 40 countries in the Economic Freedom Index. It visually emphasizes the geographic concentration of highly
This map displays the lowest-ranked countries in the Economic Freedom Index. It helps identify regions facing economic challenges,
2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
Show title
Size
Automatic
2022 Score
0.00
84.40
© 2026 Mapbox © OpenStreetMap
2 unknown
Data Source
x vs 5Y GDP
Inflation Rate
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1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2022 Econom...
Top 40 ...
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Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
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Size
Automatic
World Rank
1
40
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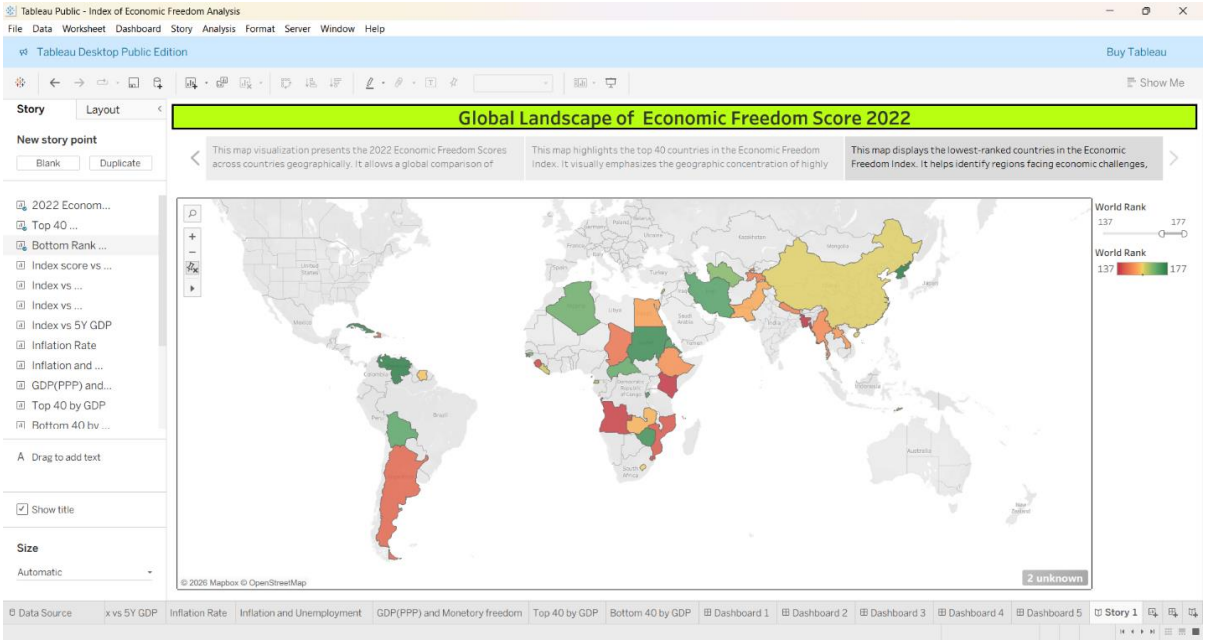
Data Source
x vs 5Y GDP
Inflation Rate
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1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2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
Show title
Size
Automatic
World Rank
137
177
World Rank
137
177
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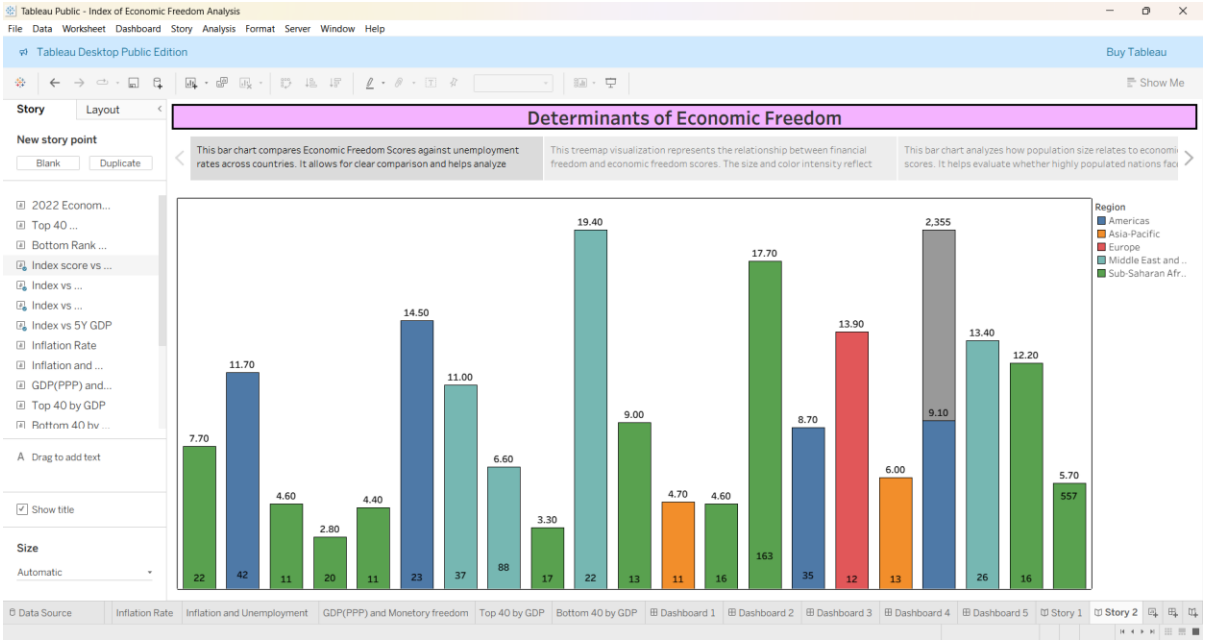
2 unknown
Data Source
x vs 5Y GDP
Inflation Rate
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1

Story 2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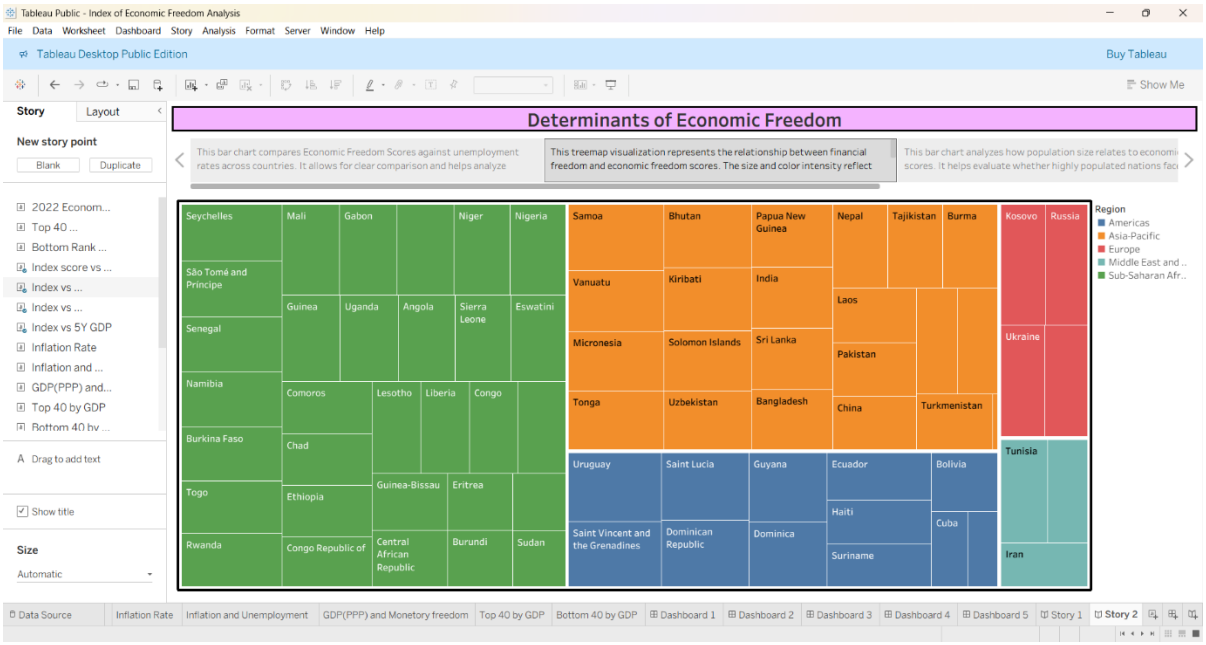
Determinants of Economic Freedom
This bar chart compares Economic Freedom Scores against unemployment rates across countries. It allows for clear comparison and helps analyze
This treemap visualization represents the relationship between financial freedom and economic freedom scores. The size and color intensity reflect
This bar chart analyzes how population size relates to economi scores. It helps evaluate whether highly populated nations fac
2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
Show title
Size
Automatic
Region
Americas
Asia-Pacific
Europe
Middle East and ..
Sub-Saharan Afr..
7.70
22
11.70
42
4.60
11
2.80
20
4.40
11
14.50
23
11.00
37
6.60
88
3.30
17
19.40
22
9.00
13
4.70
11
4.60
16
17.70
163
8.70
35
13.90
12
6.00
13
2,355
9.10
13.40
26
12.20
16
5.70
557
Data Source
Inflation Rate
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2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2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
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Size
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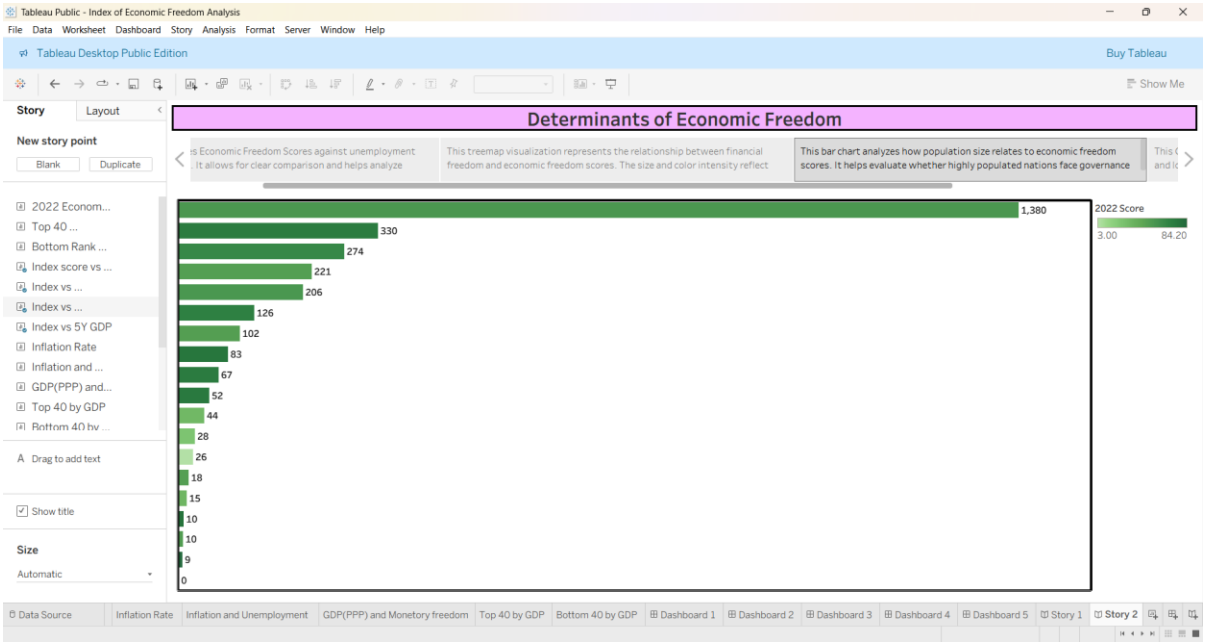
Seychelles
Mali
Gabon
Niger
Nigeria
São Tomé and Príncipe
Guinea
Uganda
Angola
Sierra Leone
Eswatini
Senegal
Namibia
Comoros
Lesotho
Liberia
Congo
Burkina Faso
Chad
Togo
Ethiopia
Guinea-Bissau
Eritrea
Rwanda
Congo Republic of
Central African Republic
Burundi
Sudan
Samoa
Bhutan
Papua New Guinea
Nepal
Tajikistan
Burma
Vanuatu
Kiribati
India
Laos
Micronesia
Solomon Islands
Sri Lanka
Pakistan
Tonga
Uzbekistan
Bangladesh
China
Turkmenistan
Uruguay
Saint Lucia
Guyana
Ecuador
Bolivia
Haiti
Saint Vincent and the Grenadines
Dominican Republic
Dominica
Cuba
Suriname
Kosovo
Russia
Ukraine
Tunisia
Iran
Region
Americas
Asia-Pacific
Europe
Middle East and ..
Sub-Saharan Afr..
Data Source
Inflation Rate
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2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GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
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Determinants of Economic Freedom
This treemap visualization represents the relationship between financial freedom and economic freedom scores. The size and color intensity reflect
This bar chart analyzes how population size relates to economic freedom scores. It helps evaluate whether highly populated nations face governance
1,380
330
274
221
206
126
102
83
67
52
44
28
26
18
15
10
10
9
0
2022 Score
3.00
84.20
Data Source
Inflation Rate
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Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
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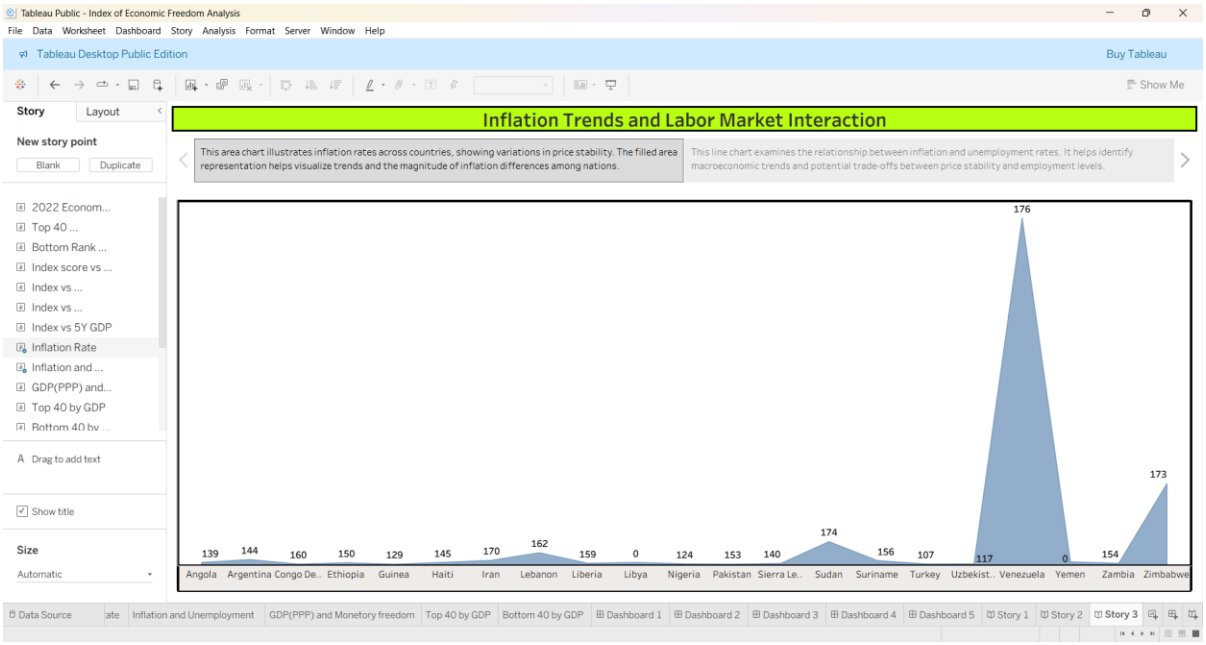
Story 3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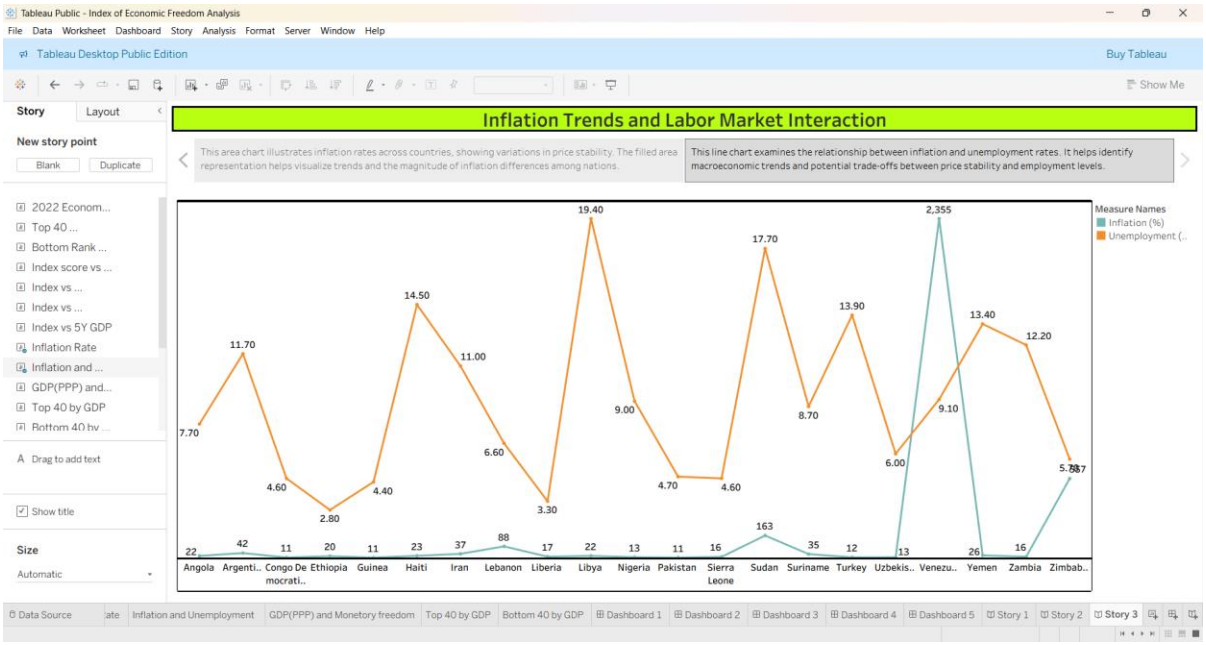
2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
Show title
Size
Automatic
Inflation Trends and Labor Market Interaction
This area chart illustrates inflation rates across countries, showing variations in price stability. The filled area representation helps visualize trends and the magnitude of inflation differences among nations.
This line chart examines the relationship between inflation and unemployment rates. It helps identify macroeconomic trends and potential trade-offs between price stability and employment levels.
139 144 160 150 129 145 170 162 159 0 124 153 140 174 156 107 117 0 154 173
Angola Argentina Congo De.. Ethiopia Guinea Haiti Iran Lebanon Liberia Libya Nigeria Pakistan Sierra Le.. Sudan Suriname Turkey Uzbekist.. Venezuela Yemen Zambia Zimbabwe
Data Source
Inflation and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2
Story 3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2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
Drag to add text
Show title
Size
Automatic
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This line chart examines the relationship between inflation and unemployment rates. It helps identify macroeconomic trends and potential trade-offs between price stability and employment levels.
Measure Names
Inflation (%)
Unemployment (...
7.70 11.70 4.60 2.80 4.40 14.50 11.00 6.60 3.30 19.40 9.00 4.70 4.60 17.70 8.70 13.90 6.00 2,355 9.10 13.40 12.20 5.87
22 42 11 20 11 23 37 88 17 22 13 11 16 163 35 12 13 26 16
Angola Argenti.. Congo De mocrati.. Ethiopia Guinea Haiti Iran Lebanon Liberia Libya Nigeria Pakistan Sierra Leone Sudan Suriname Turkey Uzbekis.. Venezu.. Yemen Zambia Zimbab..
Data Source
Inflation and Unemployment
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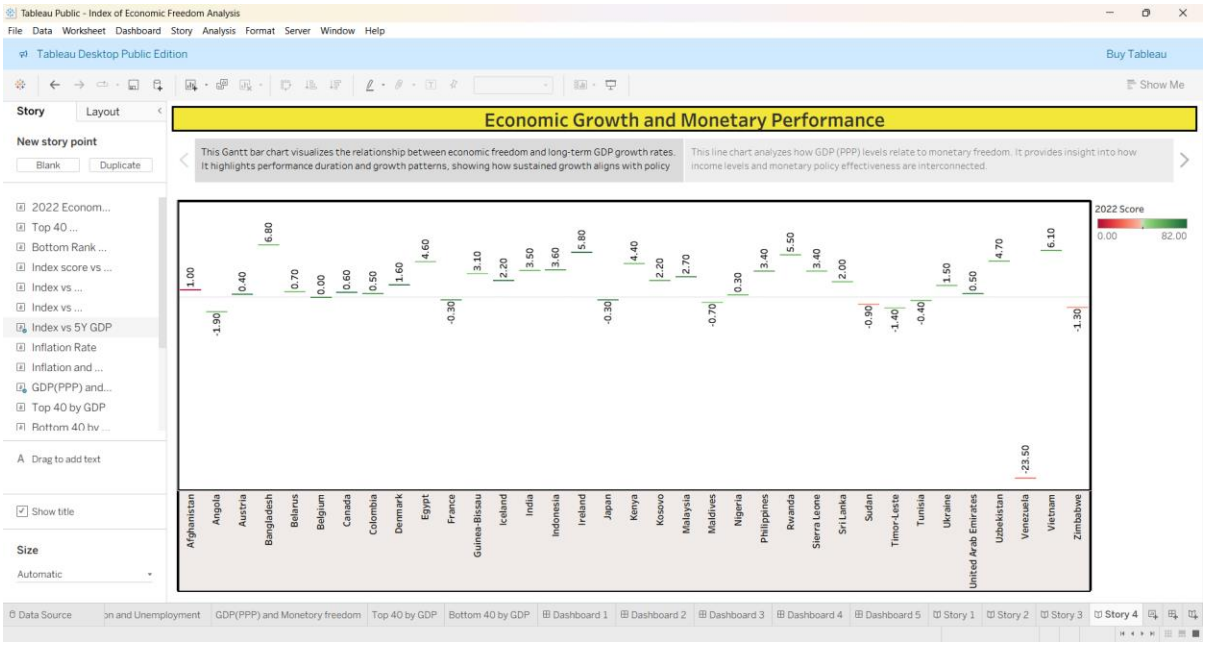
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2
Story 3

Story 4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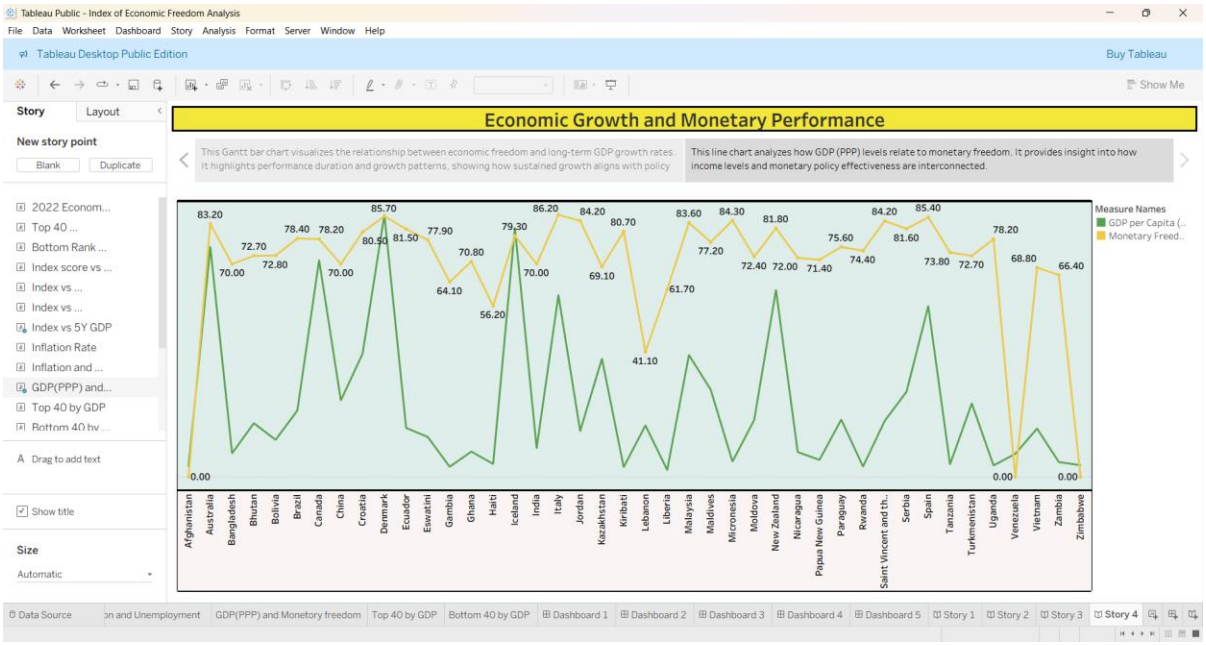
2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
A Drag to add text
Show title
Size
Automatic
Economic Growth and Monetary Performance
This Gantt bar chart visualizes the relationship between economic freedom and long-term GDP growth rates. It highlights performance duration and growth patterns, showing how sustained growth aligns with policy
This line chart analyzes how GDP (PPP) levels relate to monetary freedom. It provides insight into how income levels and monetary policy effectiveness are interconnected.
2022 Score
0.00
82.00
1.00 -1.90 0.40 6.80 0.70 0.00 0.60 0.50 1.60 4.60 -0.30 3.10 2.20 3.50 3.60 5.80 -0.30 4.40 2.20 2.70 -0.70 0.30 3.40 5.50 3.40 2.00 -0.90 -1.40 -0.40 1.50 0.50 4.70 -23.50 6.10 -1.30
Afghanistan Angola Austria Bangladesh Belarus Belgium Canada Colombia Denmark Egypt France Guinea-Bissau Iceland India Indonesia Ireland Japan Kenya Kosovo Malaysia Maldives Nigeria Philippines Rwanda Sierra Leone Sri Lanka Sudan Timor-Leste Tunisia Ukraine United Arab Emirates Uzbekistan Venezuela Vietnam Zimbabwe
Data Source
on and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2
Story 3
Story 4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2022 Econom...
Top 40 ...
Bottom Rank ...
Index score vs ...
Index vs ...
Index vs ...
Index vs 5Y GDP
Inflation Rate
Inflation and ...
GDP(PPP) and...
Top 40 by GDP
Bottom 40 by ...
A Drag to add text
Show title
Size
Automatic
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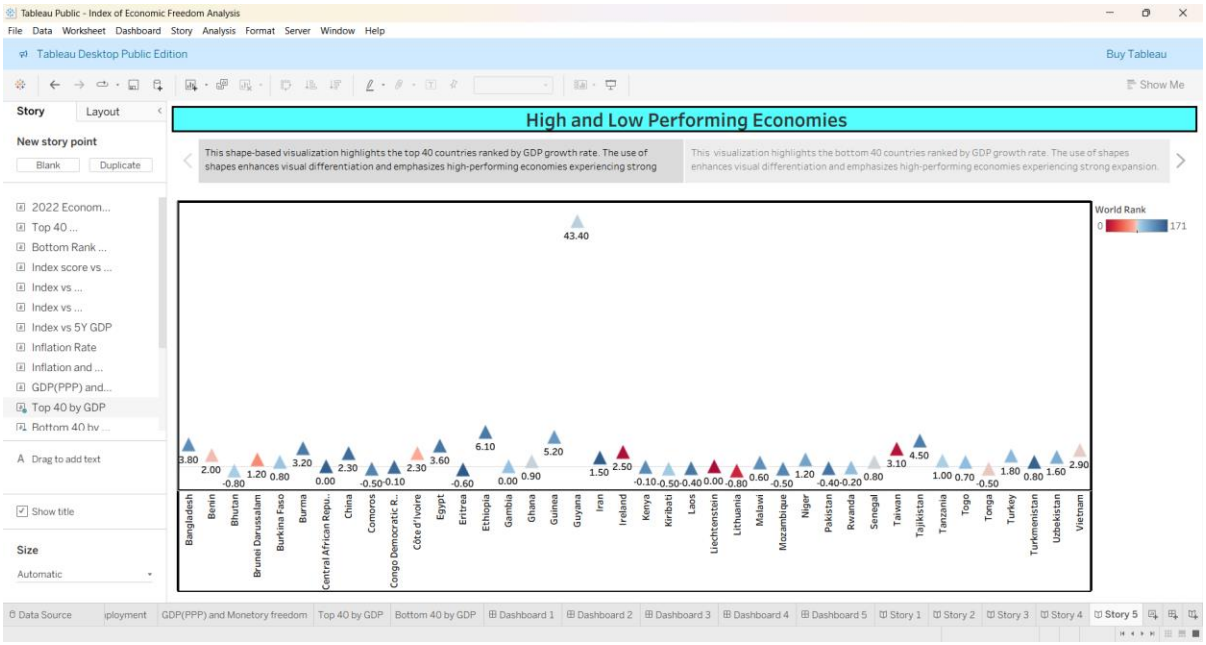
This line chart analyzes how GDP (PPP) levels relate to monetary freedom. It provides insight into how income levels and monetary policy effectiveness are interconnected.
Measure Names
GDP per Capita (...
Monetary Freed...
83.20 70.00 72.70 72.80 78.40 78.20 70.00 80.50 85.70 81.50 77.90 64.10 70.80 56.20 79.30 70.00 86.20 84.20 69.10 80.70 41.10 61.70 83.60 77.20 84.30 72.40 81.80 72.00 71.40 75.60 74.40 84.20 81.60 85.40 73.80 72.70 78.20 68.80 66.40 0.00 0.00 0.00
Afghanistan Australia Bangladesh Bhutan Bolivia Brazil Canada China Croatia Denmark Ecuador Eswatini Gambia Ghana Haiti Iceland India Italy Jordan Kazakhstan Kiribati Lebanon Liberia Malaysia Maldives Micronesia Moldova New Zealand Nicaragua Papua New Guinea Paraguay Rwanda Saint Vincent and th... Serbia Spain Tanzania Turkmenistan Uganda Venezuela Vietnam Zambia Zimbabwe
Data Source
on and Unemployment
GDP(PPP) and Monetory freedom
Top 40 by GDP
Bottom 40 by GDP
Dashboard 1
Dashboard 2
Dashboard 3
Dashboard 4
Dashboard 5
Story 1
Story 2
Story 3
Story 4

Story 5



Dataset link: [index_of_economic_freedom.csv - Google Drive]

Tableau Public Link: [Profile - yuvasree.k3344 | Tableau Public]

Tableau Public workbook link: [Index of Economic Freedom Analysis | Tableau Public]

8. ADVANTAGES & DISADVANTAGES

Advantages:

- Interactive visual analysis
- Clear global comparison
- Data-driven insights

- User-friendly dashboards

Disadvantages:

- Limited to available dataset year
- Dependent on data accuracy
- Does not predict future trends

9. CONCLUSION

The project successfully analyzes global economic freedom indicators and their relationship with national prosperity. The visual dashboards clearly demonstrate how factors like inflation, GDP, and governance influence economic performance. This study provides valuable insights for policy makers and researchers to understand economic strengths and weaknesses.

10.FUTURE SCOPE

- Add multi-year trend analysis
- Include predictive analytics
- Integrate real-time data APIs
- Develop advanced machine learning models
- Expand to regional policy simulation

11.APPENDIX

Source Code: HTML & CSS for web integration

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Measuring the Pulse of Prosperity</title>

<link
    href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600;700&display=swap
    " rel="stylesheet">

<style>
body {
  margin: 0;
  font-family: 'Poppins', sans-serif;
  background: #f4f7fb;
}

header {
  background: linear-gradient(135deg, #1f77b4, #247ba0);
  color: white;
  text-align: center;
  padding: 80px 20px;
}
```

```
header h1 {
   font-size: 42px;
   margin-bottom: 15px;
}

header p {
   font-size: 18px;
}

.section {
   width: 90%;
   max-width: 1300px;
   margin: 60px auto;
   text-align: center;
}

.section h2 {
   color: #0b3d91;
   margin-bottom: 30px;
}

footer {
   background: #0b3d91;
   color: white;
   text-align: center;
   padding: 20px;
   margin-top: 40px;
}
</style>
</head>

<body>

<header>
   <h1>Measuring the Pulse of Prosperity</h1>
   <p> An Index of Economic Freedom Analysis</p>
   <p><strong>Created by K Yuvasree</strong></p>
   <p>SmartInternz Internship Project – 2026</p>
</header>

<section style="width:90%; max-width:900px; margin:50px auto; text-align:center;">
   <h2 style="color:#0b3d91;">About the Author</h2>
   <p>
      Hello! I am <strong>K Yuvasree</strong>, a Data Analytics Intern at SmartInternz.
      This project explores global economic freedom metrics through interactive
      Tableau visualizations, dashboards, and storytelling insights.
   </p>
```

```
</section>

<section class="section">
  <h2>Explore the Complete Workbook</h2>

  <!--TABLEAU EMBED CODE STARTS HERE -->

  <div class='tableauPlaceholder' id='viz1771486609865' style='position: relative'>
    <noscript>
      <a href='#'>
        <img alt="

    src='https://public.tableau.com/static/images/In/IndexofEconomicFreedomAnalysis_17714827896390/2022EconomicFreedomScore/1_rss.png'
        style='border: none' />
      </a>
    </noscript>

    <object class='tableauViz' style='display:none;'>
      <param name='host_url' value='https://public.tableau.com/' />
      <param name='embed_code_version' value='3' />
      <param name='site_root' value='' />
      <param name='name'
    value='IndexofEconomicFreedomAnalysis_17714827896390/2022EconomicFreedomScore' />
      <param name='tabs' value='yes' />
      <param name='toolbar' value='yes' />
      <param name='static_image'
    value='https://public.tableau.com/static/images/In/IndexofEconomicFreedomAnalysis_17714827896390/2022EconomicFreedomScore/1.png' />
      <param name='animate_transition' value='yes' />
      <param name='display_static_image' value='yes' />
      <param name='display_spinner' value='yes' />
      <param name='display_overlay' value='yes' />
      <param name='display_count' value='yes' />
      <param name='language' value='en-GB' />
    </object>
  </div>

  <script type='text/javascript'>
    var divElement = document.getElementById('viz1771486609865');
    var vizElement = divElement.getElementsByTagName('object')[0];
    vizElement.style.width = '100%';
    vizElement.style.height = '900px';
    var scriptElement = document.createElement('script');
    scriptElement.src = 'https://public.tableau.com/javascripts/api/viz_v1.js';
    vizElement.parentNode.insertBefore(scriptElement, vizElement);
  </script>

  <!--TABLEAU EMBED CODE ENDS HERE -->
```

```
</section>

<footer>
   © 2026 K Yuvasree | Measuring the Pulse of Prosperity <br>
   SmartInternz Internship Project
</footer>

</body>
    </html>
```

Dataset link: index_of_economic_freedom.csv - Google Drive

Tableau Public Link: Profile - yuvasree.k3344 | Tableau Public

Tableau Public workbook link: Index of Economic Freedom Analysis | Tableau Public

Web Integration Live link: **https://yuvasreekanjibedu.github.io/Measuring-the-Pulse-of-Prosperity-An-Index-of-Economic-Freedom-Analysis/**

GitHub Repository Link: **https://github.com/Yuvasreekanjibedu/Measuring-the-Pulse-of-Prosperity-An-Index-of-Economic-Freedom-Analysis**

Demo link in google drive:

https://drive.google.com/file/d/1az0HDAciou0HU3uaXRCmApmmr8_xZHIk/view?usp=sharing

Demo Link in Loom Website:

https://www.loom.com/share/ae9f1e3b4d3a4aa3b294dced0dcf456b