

2026 INTERNSHIP REPORT

Submitted to : Smart Internz ,Smart Bridge company

Track : Data Analytics with Tableau

Project Title :

Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis

Submitted by:

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Project Description:

Introduction :

Economic freedom is the fundamental right of every human to control his or her own labor and property. In an economically free society, individuals are free to work, produce, consume, and invest in any way they please. In economically free societies, governments allow labor, capital, and goods to move freely, and refrain from coercion or constraint of liberty beyond the extent necessary to protect and maintain liberty itself.

For much of human history, most individuals have lacked economic freedom and opportunity, condemning them to poverty and deprivation.

Today, we live in the most prosperous time in human history. Poverty, sicknesses, and ignorance are receding throughout the world, due in large part to the advance of economic freedom. In 2022, the principles of economic freedom that have fueled this monumental progress are once again measured in the Index of Economic Freedom, an annual guide published by The Heritage Foundation, Washington's No. 1 think tank.

We measure economic freedom based on 12 quantitative and qualitative factors, grouped into four broad categories, or pillars, of economic freedom:

1. Rule of law (property rights, government integrity, judicial effectiveness)
2. Government size (government spending, tax burden, fiscal health)
3. Regulatory efficiency (business freedom, labor freedom, monetary freedom)
4. Open markets (trade freedom, investment freedom, financial freedom)

Pre requisites

For Completing this project these are some of the prerequisites needed

- A system with a minimum 4GB RAM and 128GB Hard Disk
- Good Internet Connection
- Google Drive / Any of the Database Server with Management Studio
- MySQL:

Prior Knowledge

- To Complete this project, one must understand the below concepts and able to work with the tools

Project Objectives

By the end of this project, you will:

- Able to Connect Tableau with different data sources
- Know fundamental concepts and techniques used for Data Visualization.
- Gain a broad understanding about data and different types of charts.
- Have knowledge on developing Visualizations, Dashboards and Story.
- Able to Integrate the developed dashboard and story with the web application

Project Flow:

To accomplish this, we have to complete all the activities listed below,

1 Data collection

Activity -1: Collect the dataset or create the dataset

2 Database /Spreadsheet Connection

Activity-2.1: Understand the dataset

Activity-2.2: Import Dataset into Database and connect Tableau Desktop to Database

3. Data Visualization

Activity-3.1: 2022 Economic freedom score

Activity-3.2: Top 40 ranking countries in the index

Activity-3.3: Bottom ranking countries in the index

Activity-3.4: Index score based on unemployment rate

Activity-3.5: Index score based on population

Activity-3.6: Index score based on 5 year on GDP growth rate(%)

Activity-3.7: Inflation rate in different countries

Activity-3.8: Correlation between inflation and unemployment

Activity-3.9: Correlation between GDP(PPP) and monetary freedom

Activity-3.10: Top 40 countries by GDP growth rate

Activity-3.11: Index score based on financial freedom

4.Dashboard

Activity-4.1: Develop the Dashboard

5.Story

Activity-5.1:Develop the Storyboard

6.Publishing to the Tableau Public & Web Application Integration

Activity-6.1: Publishing dashboard and reports to tableau public

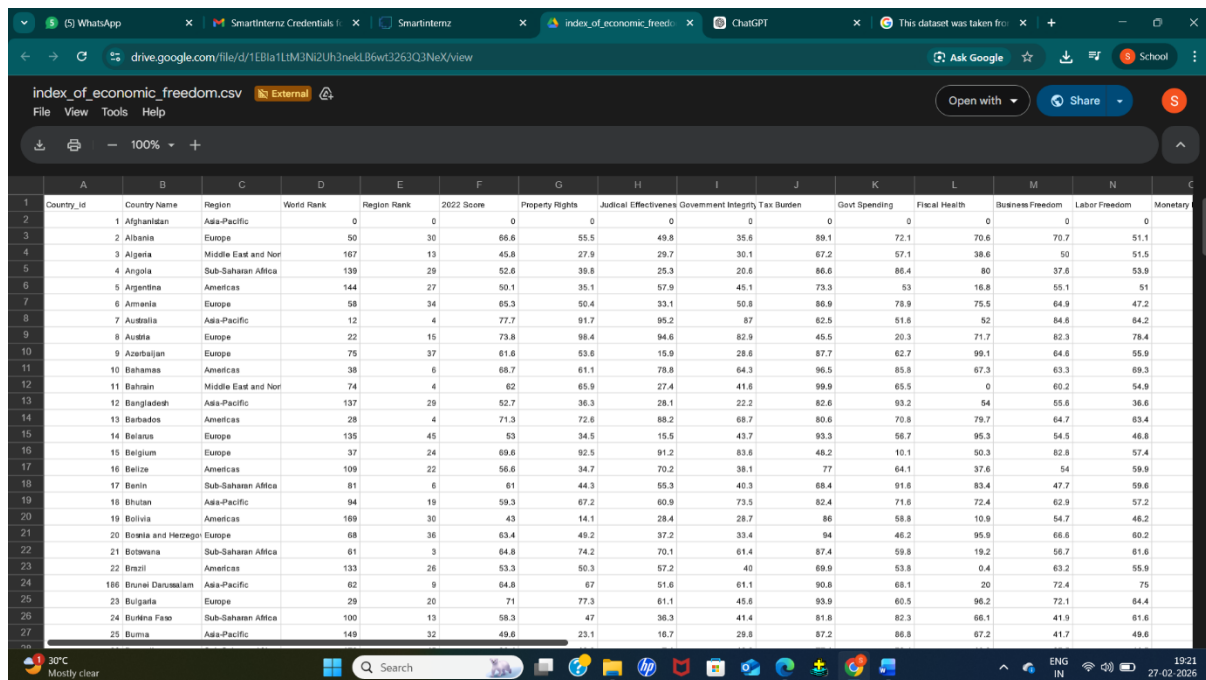
Activity-6.2: Integrating with Web with Embed code

Activity-6.3: Develop a web application using HTML, CSS or Using Bootstrap and Integrate the Visualizations, Dashboard and Story with the Web Application

1.Data Collection

Activity-1 : Collect the dataset or create the dataset

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.



The screenshot shows a Google Drive interface with a spreadsheet titled 'index_of_economic_freedom.csv'. The spreadsheet contains data for 25 countries, ranked by their 2022 Economic Freedom Score. The columns include Country_id, Country Name, Region, World Rank, Region Rank, 2022 Score, Property Rights, Judicial Effectiveness, Government Integrity, Tax Burden, Govt Spending, Fiscal Health, Business Freedom, Labor Freedom, and Monetary. The data is sorted by the 2022 Score in descending order.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Country_id	Country Name	Region	World Rank	Region Rank	2022 Score	Property Rights	Judicial Effectiveness	Government Integrity	Tax Burden	Govt Spending	Fiscal Health	Business Freedom	Labor Freedom	Monetary
1	1	Afghanistan	Asia-Pacific	0	0	0	0	0	0	0	0	0	0	0	0
2	2	Albania	Europe	50	30	66.6	55.5	49.8	35.6	59.1	72.1	70.6	70.7	51.1	
3	3	Algeria	Middle East and North Africa	167	13	45.8	27.9	29.7	30.1	67.2	57.1	38.6	50	51.5	
4	4	Angola	Sub-Saharan Africa	139	29	52.6	39.6	25.3	20.6	86.6	86.4	80	37.6	53.9	
5	5	Argentina	Americas	144	27	50.1	35.1	57.9	45.1	73.3	53	16.8	55.1	51	
6	6	Armenia	Europe	58	34	65.3	50.4	33.1	50.8	86.9	78.9	75.5	64.9	47.2	
7	7	Australia	Asia-Pacific	12	4	77.7	91.7	95.2	87	82.5	51.8	82	84.8	84.2	
8	8	Austria	Europe	22	15	73.8	89.4	94.6	82.9	45.5	20.3	71.7	82.3	78.4	
9	9	Azerbaijan	Europe	75	37	61.6	53.6	15.9	28.6	87.7	62.7	99.1	64.6	55.9	
10	10	Bahamas	Americas	38	6	68.7	61.1	78.8	64.3	96.5	85.8	87.3	63.3	89.3	
11	11	Bahrain	Middle East and North Africa	74	4	62	65.9	27.4	41.6	99.9	65.5	0	60.2	54.9	
12	12	Bangladesh	Asia-Pacific	137	29	52.7	36.3	28.1	22.2	82.6	93.2	94	55.8	36.6	
13	13	Barbados	Americas	28	4	71.3	72.6	88.2	68.7	80.6	70.8	79.7	64.7	63.4	
14	14	Belarus	Europe	135	45	53	34.5	15.5	43.7	93.3	56.7	95.3	54.5	46.8	
15	15	Belgium	Europe	37	24	69.6	92.5	91.2	83.6	48.2	10.1	50.3	82.8	57.4	
16	16	Belize	Americas	109	22	56.6	34.7	70.2	38.1	77	64.1	37.6	54	59.9	
17	17	Benin	Sub-Saharan Africa	81	6	61	44.3	55.3	40.3	68.4	91.6	83.4	47.7	59.6	
18	18	Bhutan	Asia-Pacific	94	19	59.3	67.2	60.9	73.5	82.4	71.6	72.4	62.9	57.2	
19	19	Bolivia	Americas	169	30	43	14.1	28.4	28.7	86	58.8	10.9	54.7	48.2	
20	20	Bosnia and Herzegovina	Europe	68	36	63.4	49.2	37.2	33.4	94	48.2	95.9	66.6	60.2	
21	21	Botswana	Sub-Saharan Africa	61	3	64.8	74.2	70.1	61.4	87.4	59.8	19.2	58.7	61.6	
22	22	Brazil	Americas	133	26	53.3	50.3	57.2	40	69.9	53.8	0.4	63.2	55.9	
23	23	Brunei Darussalam	Asia-Pacific	62	9	64.8	67	51.6	61.1	90.8	68.1	20	72.4	75	
24	24	Bulgaria	Europe	29	20	71	77.3	61.1	45.6	93.9	60.5	96.2	72.1	64.4	
25	25	Burkina Faso	Sub-Saharan Africa	100	13	58.3	47	36.3	41.4	81.8	82.3	66.1	41.9	61.6	
26	26	Burundi	Sub-Saharan Africa	149	32	49.6	23.1	16.7	29.8	87.2	86.8	67.2	41.7	49.6	

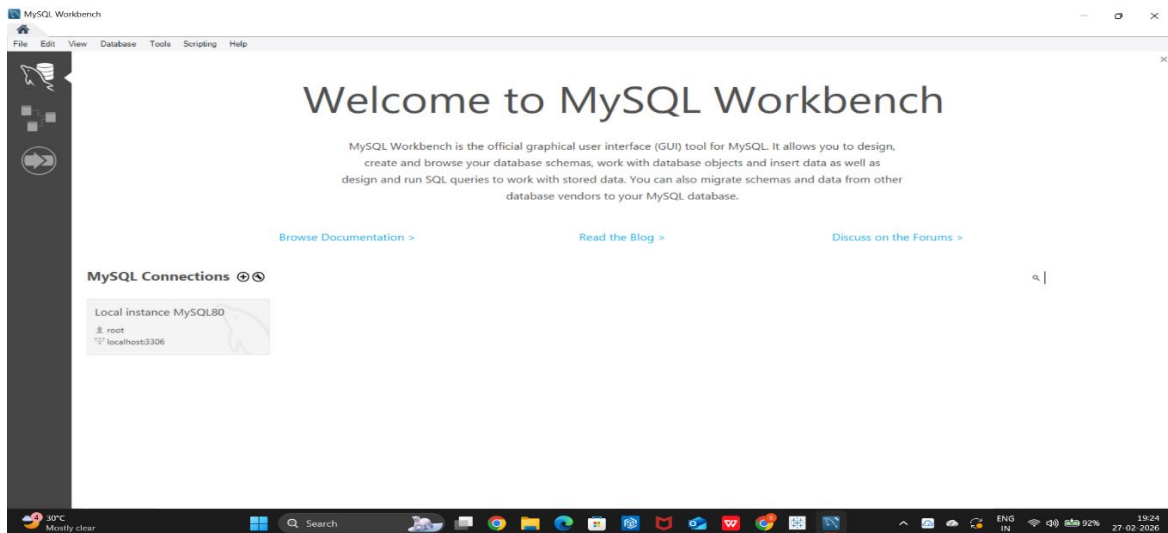
2.Database /Spreadsheet Connection

A database is an organized collection of data that allows efficient storage, access, and management. To store data in a database, you typically use a Database Management System (DBMS) such as MySQL, PostgreSQL, or SQLite.

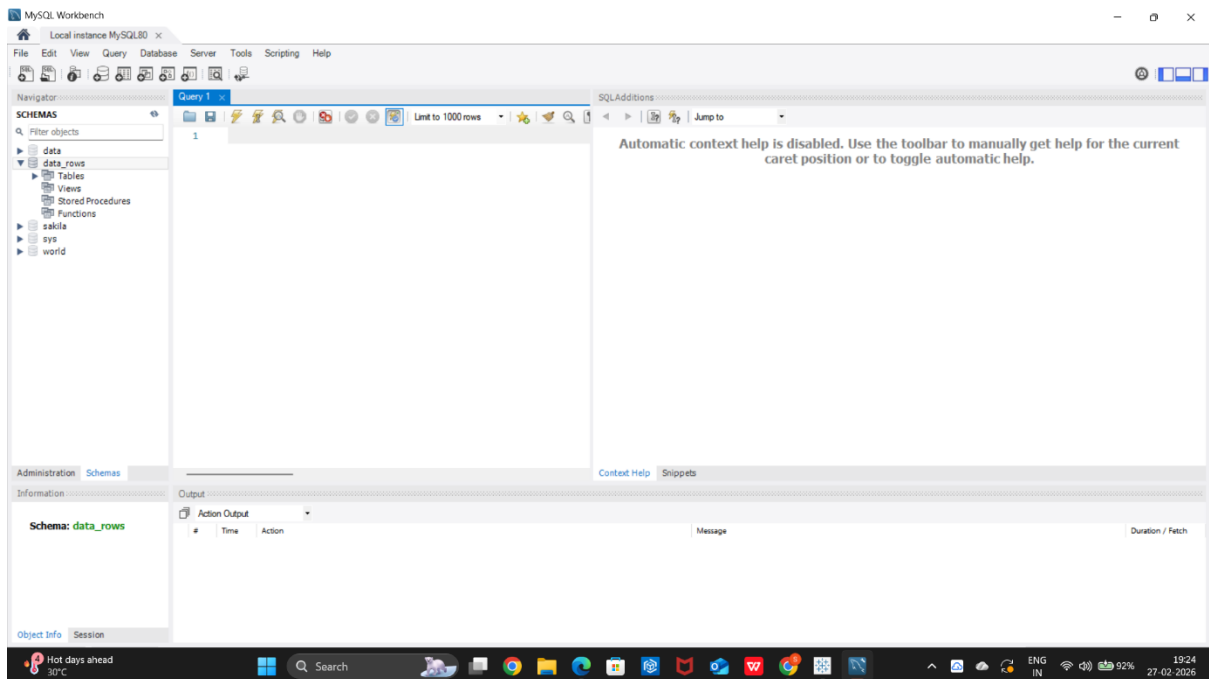
Activity-2.1 Understand the dataset

This dataset was taken from heritage.org '2022 Index of economic freedom' to know more about the data

Activity-2.2: Import Dataset into the database



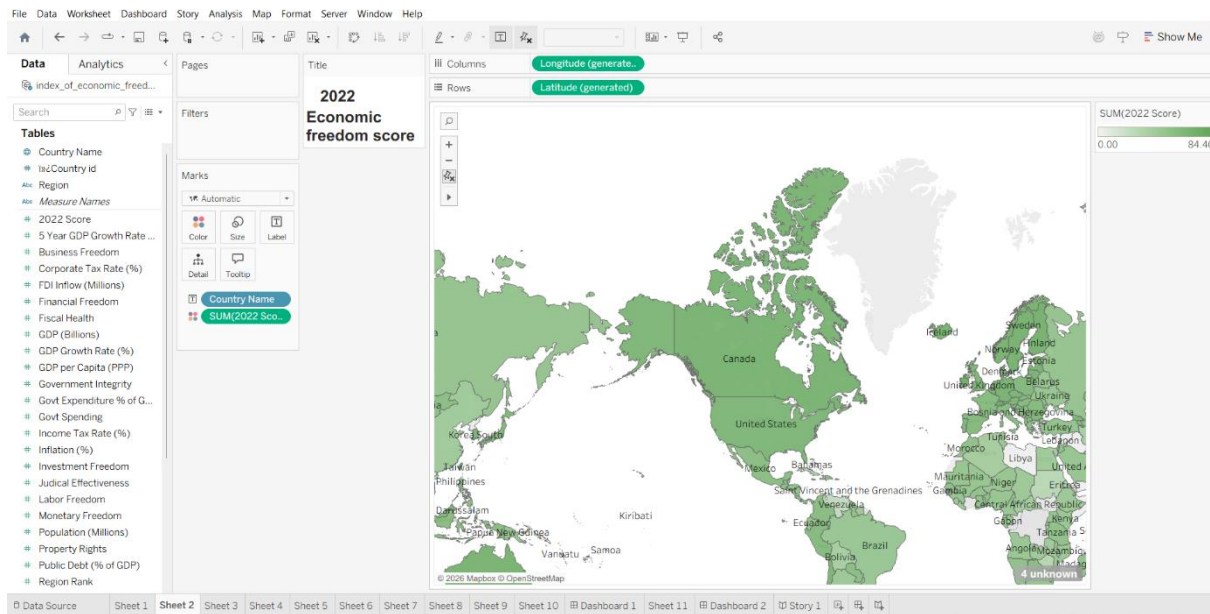
First we need to create a schema with data rows and we need to import the data into MYSQL workbench in css format



3.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

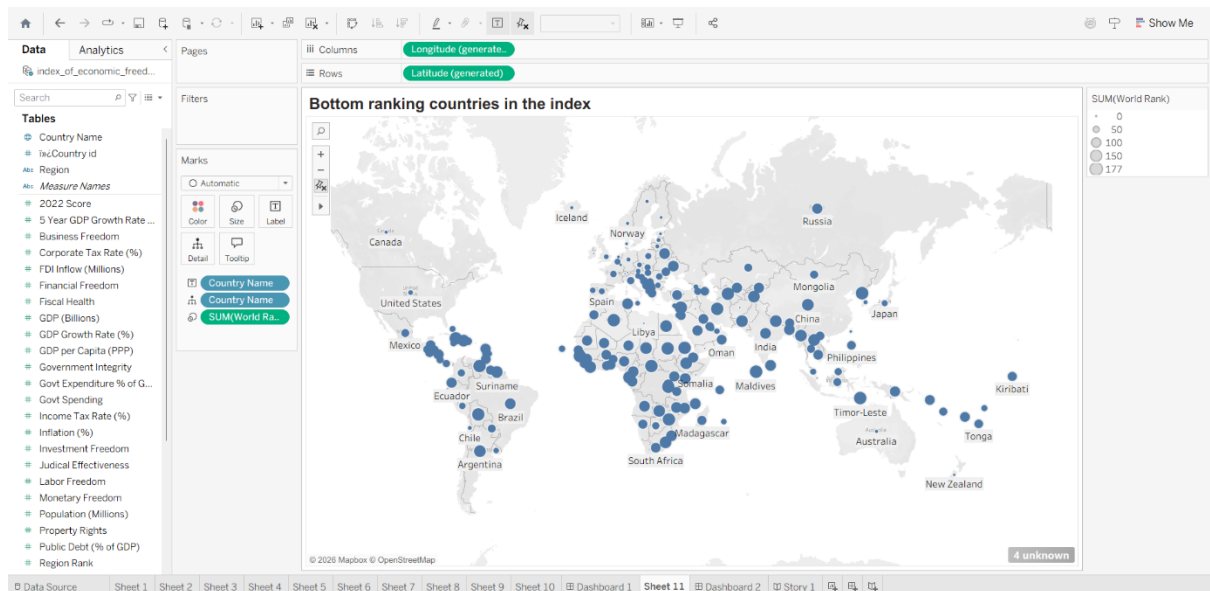
Activity-3.1: 2022 Economic freedom score



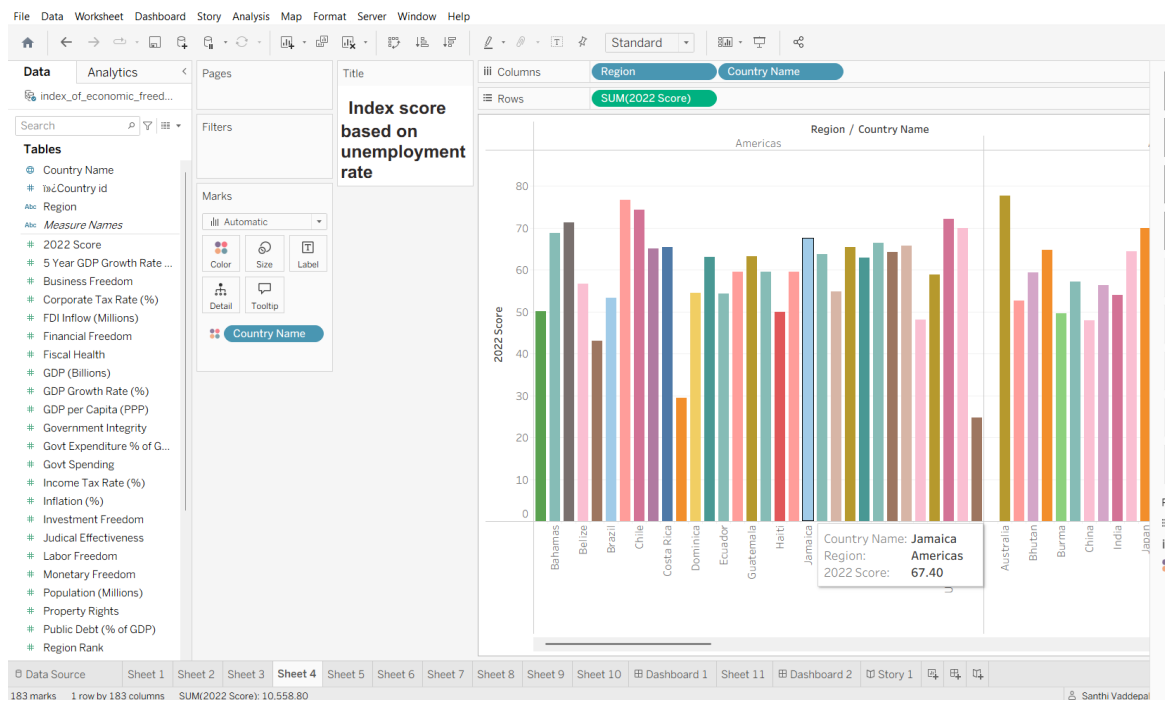
Activity-3.2 : Top 40 ranking countries in the index



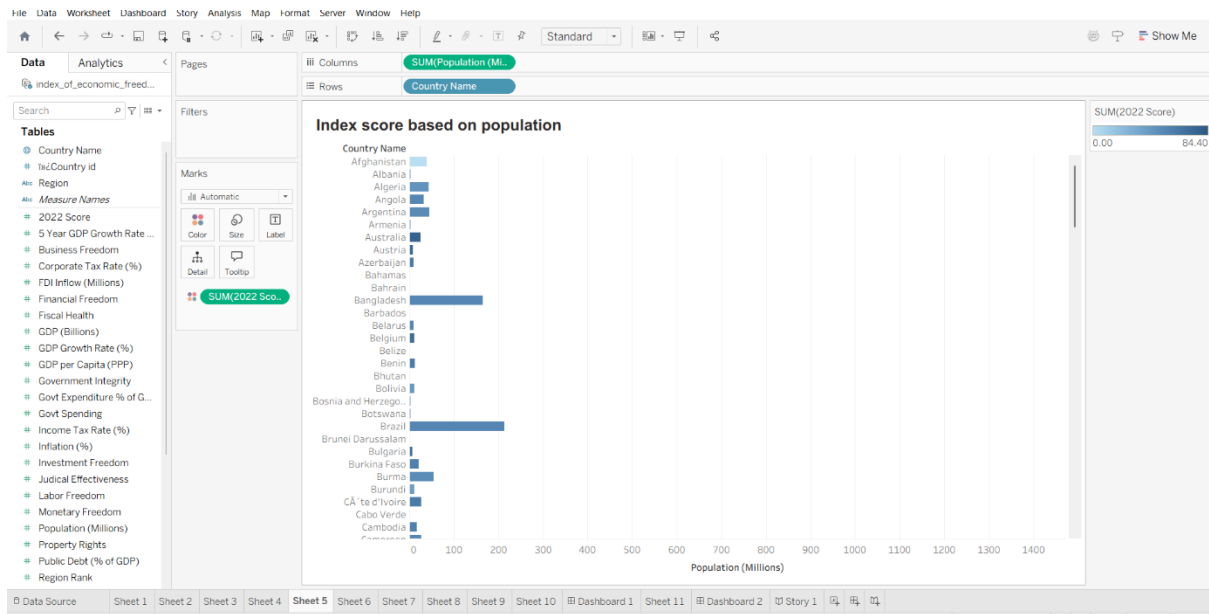
Activity-3.3: Bottom ranking countries in the index



Activity-3.4: Index score based on unemployment rate



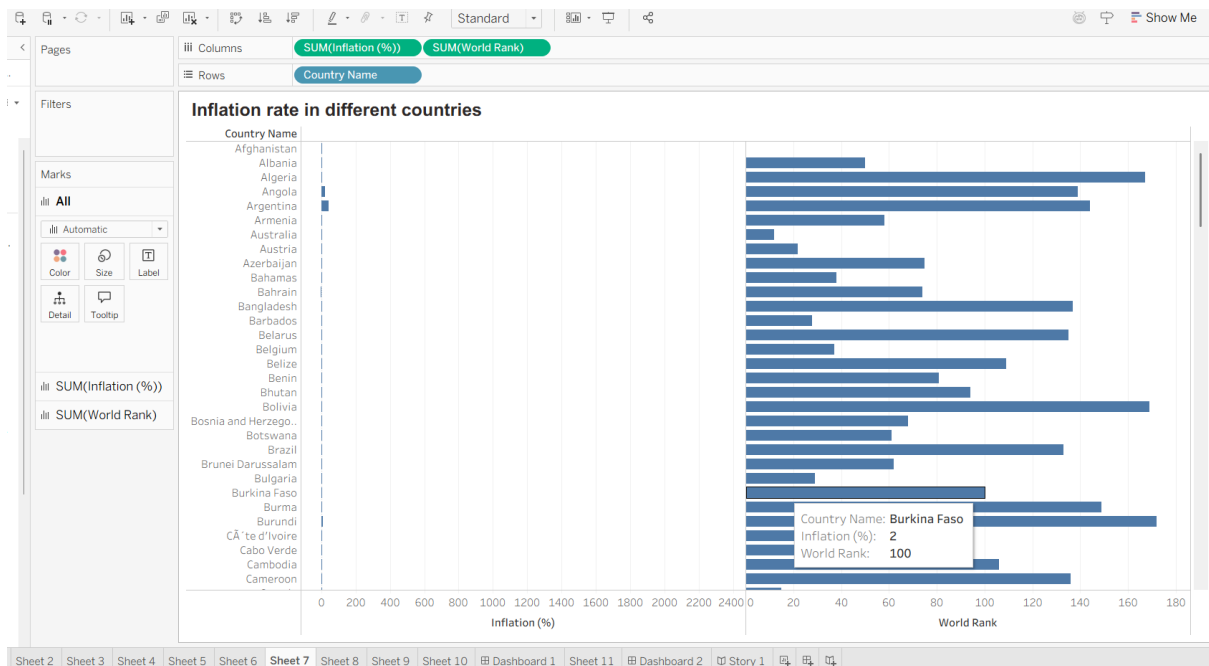
Activity-3.5: Index score based on population



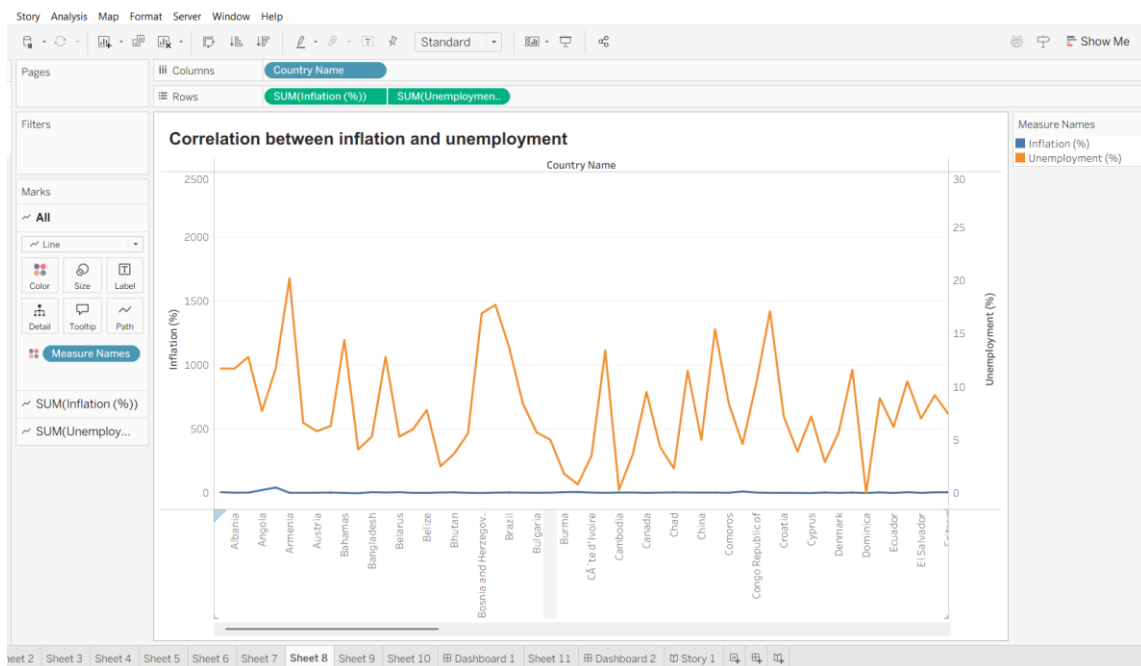
Activity-3.6: Index score based on 5 year on GDP growth rate(%)



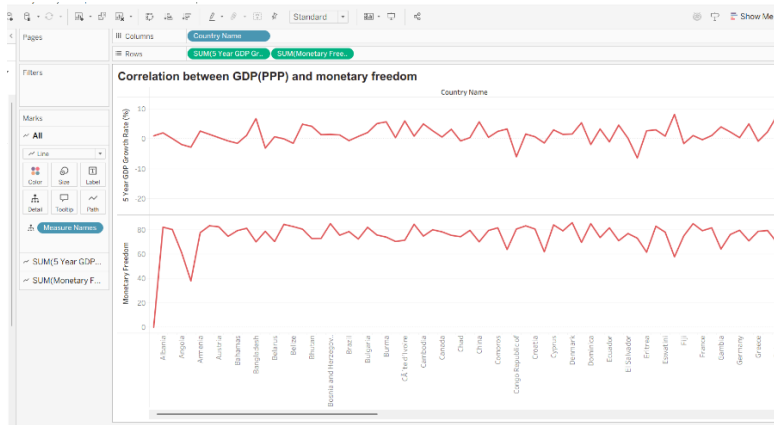
Activity-3.7: Inflation rate in different countries



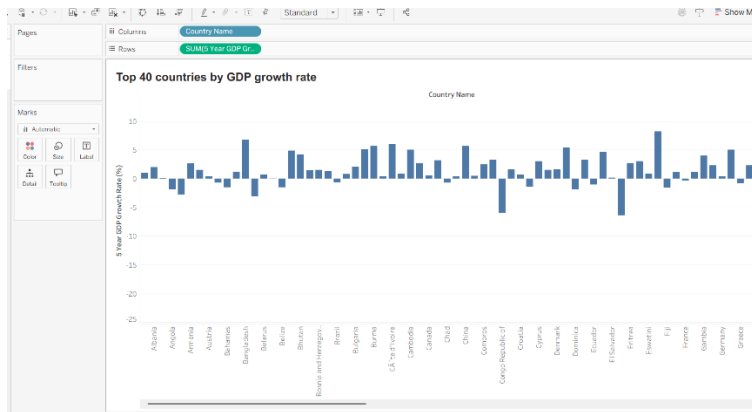
Activity-3.8: Correlation between inflation and unemployment



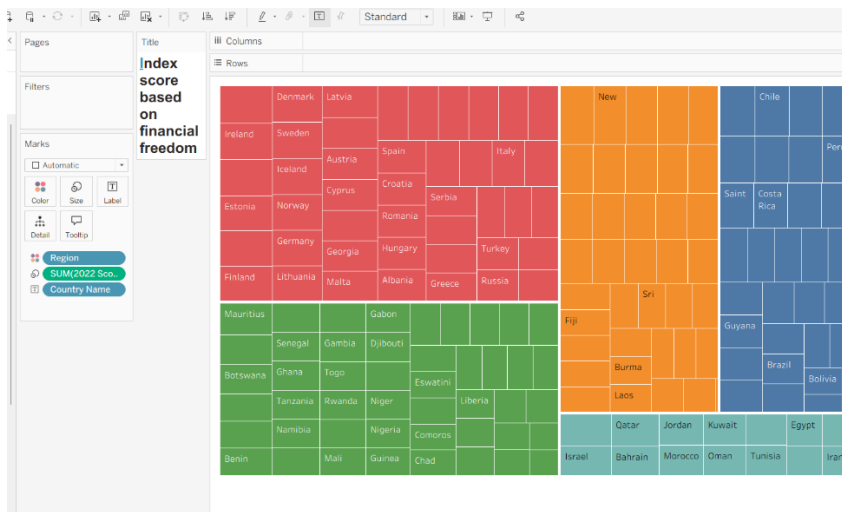
Activity-3.9: Correlation between GDP(PPP) and monetary freedom



Activity-3.10: Top 40 countries by GDP growth rate

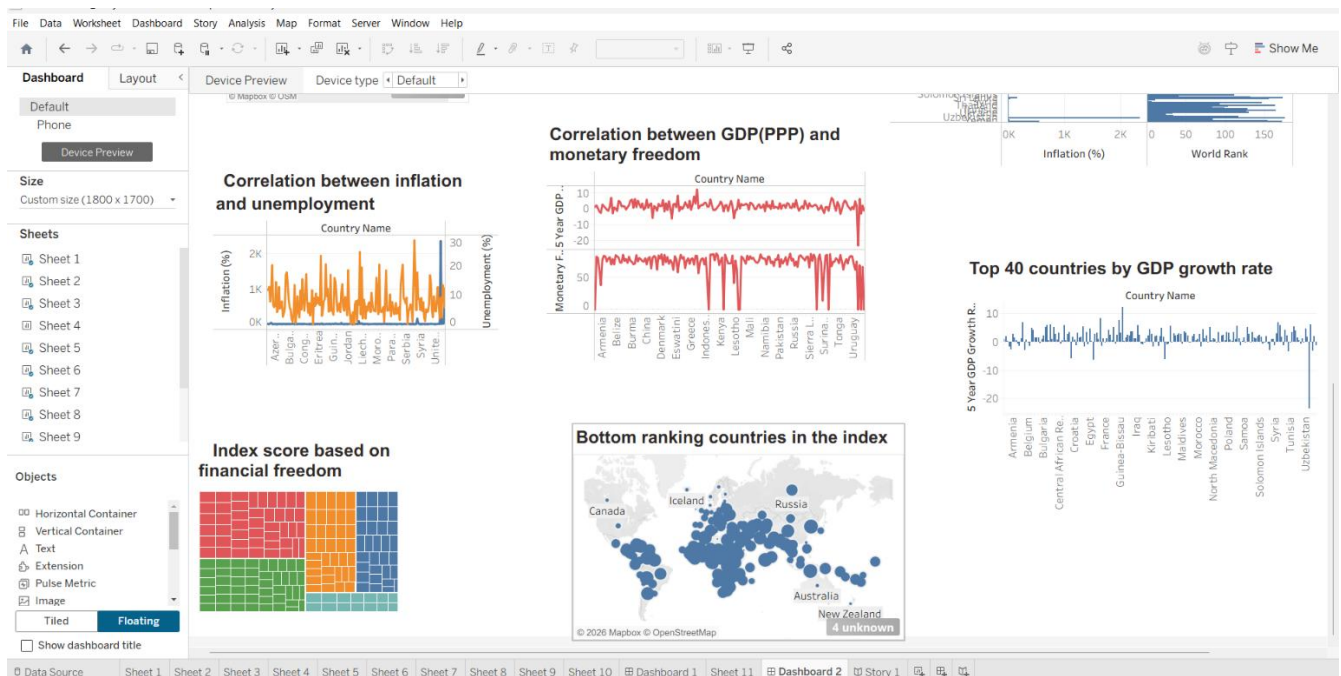
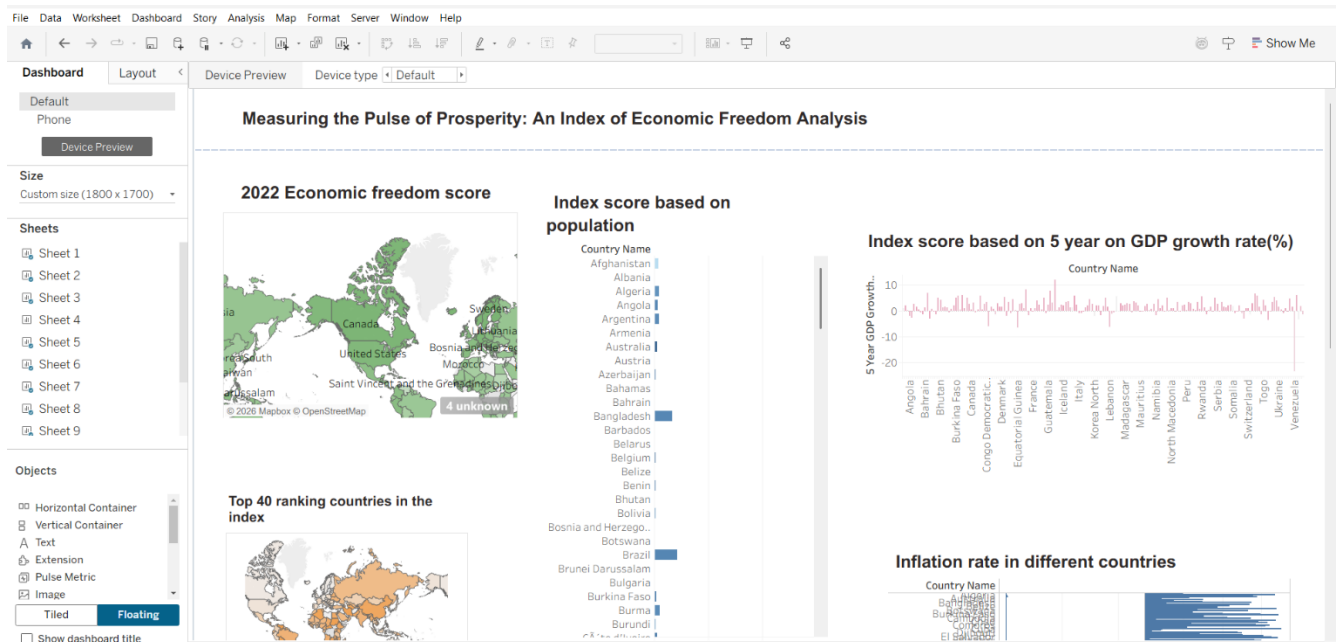


Activity-3.11: Index score based on financial freedom

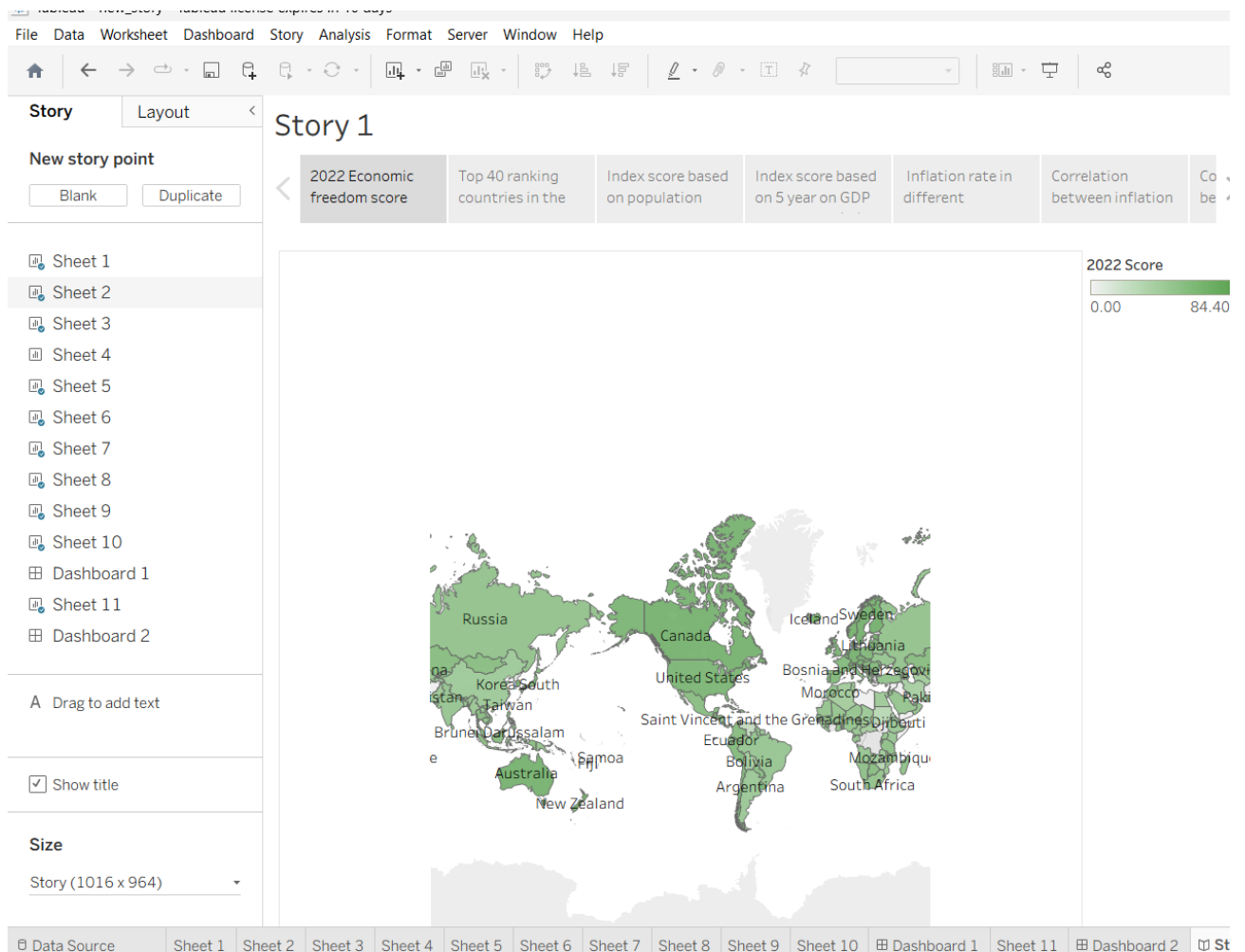


4. Dashboard : Develop the dashboard

Once you have created views on different sheets in Tableau, you can pull them into a dashboard.

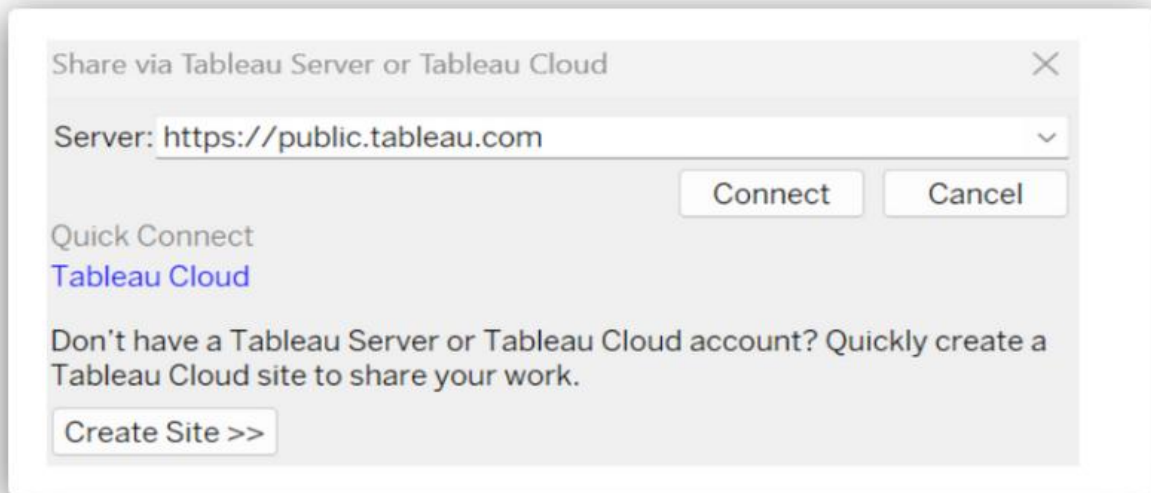


5.Story : Develop the Storyboard



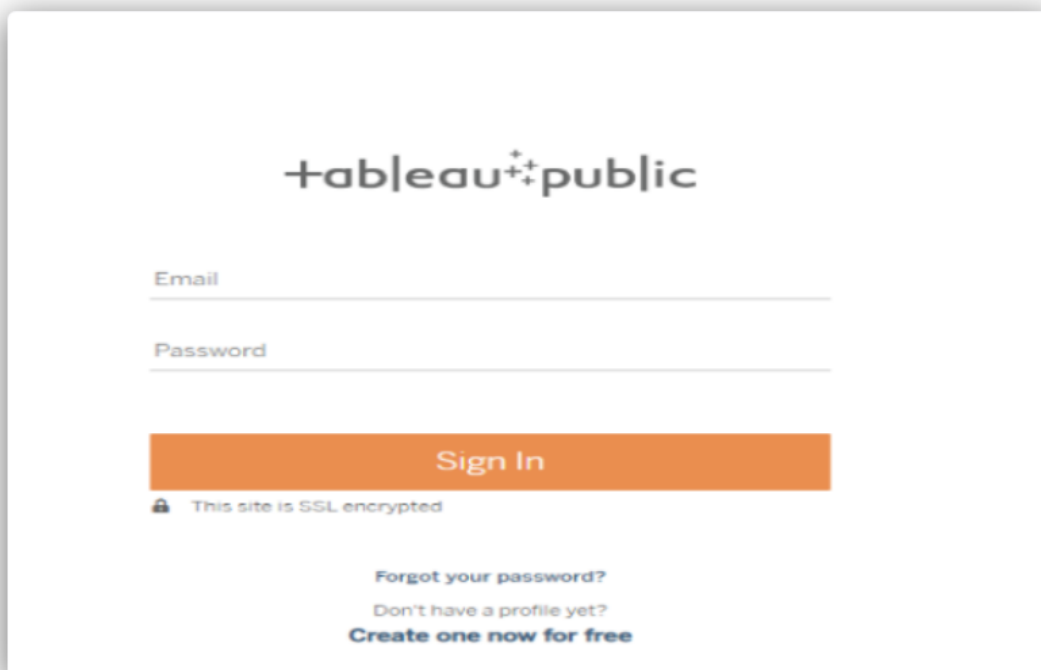
6.Publishing to the Tableau Public & Web Application Integration

Step 1: Go to Dashboard/story, click on share button on the top ribbon



Give the server address of your tableau public account and click on connect.

Step 2: Once you click on connect it will ask you for tableau public user name and password

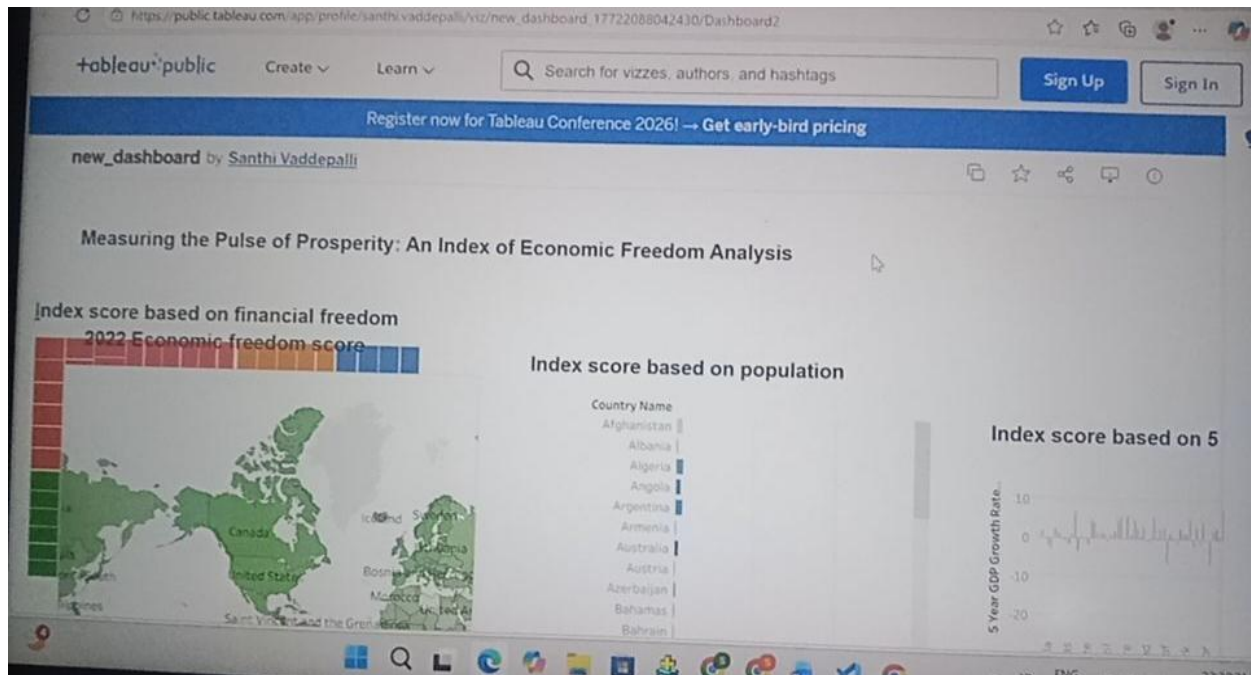


Once you login into your tableau public using the credentials, the particular visualization will be published into tableau public

Note: While publishing the visualization to the public, the respective sheet will get published when you click on share option.

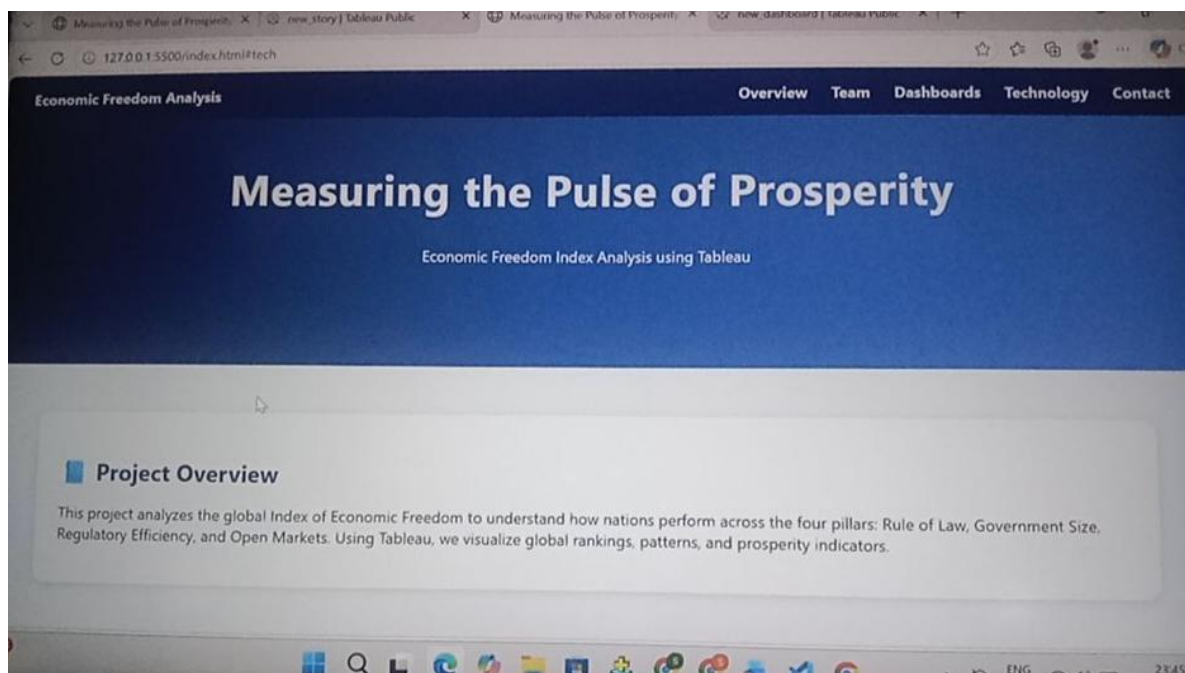
6. Publishing to the Tableau Public & Web Application Integration

Activity-6.1: Publishing dashboard and reports to tableau public



Activity-6.2: Integrating with Web with Embed code

Activity-6.3: Develop a web application using HTML, CSS or Using Bootstrap and Integrate the Visualizations, Dashboard and Story with the Web Application



Web Integration Link: [Measuring the Pulse of Prosperity - Economic Freedom Analysis](#)

Dash Board Link: [new_dashboard | Tableau Public](#)

Story Board Link: [new_story | Tableau Public](#)

Demo video Link: <https://photos.app.goo.gl/d47NbPSP8iRaGTPS7>