

# PROJECT ON INTERNATIONAL DEBT STATISTICS

SmartBridge (SmartInternz) Data Analytics Externship

Team-591167



## Abstract:

International Debt Statistics are indispensable tools for understanding the intricate interplay of our interconnected global landscape. In an era marked by escalating interdependence among nations, the significance of accurate and comprehensive data cannot be overstated. These statistics play a pivotal role in facilitating well-informed decision-making, policy formulation, and addressing pressing global challenges.

The data provided by International Debt Statistics enable us to uncover global trends, patterns, and key insights that guide us in navigating the complexities of the international financial landscape. By examining external debt levels, financial flows, and related indicators, these statistics shed light on the dynamics of debt sustainability, economic development, and debt management strategies.

Researchers, policymakers, economists, and stakeholders benefit from the wealth of information presented in these statistics, utilizing them to identify countries facing high debt burdens, assess vulnerability to external shocks, and develop effective debt management policies.

Furthermore, International Debt Statistics offer a broader perspective on global financial stability, supporting evidence-based research and fostering informed dialogue among decision-makers. In an ever-evolving economic landscape, the regular updates to these statistics provide up-to-date insights into international debt trends, ensuring that they remain a trusted and essential resource for understanding the complexities of global finance.

#### **Overview:**

International Debt Statistics serves as a comprehensive and invaluable resource, meticulously documenting the intricate landscape of external debt and financial flows on a global scale. Its significance extends to policymakers, economists, researchers, and a myriad of stakeholders with vested interests in comprehending the dynamic and evolving sphere of international debt.

Published by the esteemed World Bank, this compilation leverages data from diverse sources, ranging from national governments to central banks and international organizations. It delves into both the stock – the total outstanding debt – and the flow – the dynamics of new borrowing and debt repayment – of external debt for individual nations and regional aggregates.

International Debt Statistics casts a wide net, encapsulating diverse debt-related indicators, such as the debt's composition by creditor type, currency, and maturity. It also unveils crucial details like debt service payments, debt-to-GDP ratios, and debt sustainability analysis. These data are artfully presented through tables, charts, and graphs, facilitating easy comparisons and visualizations of the debt profiles of nations across the globe.

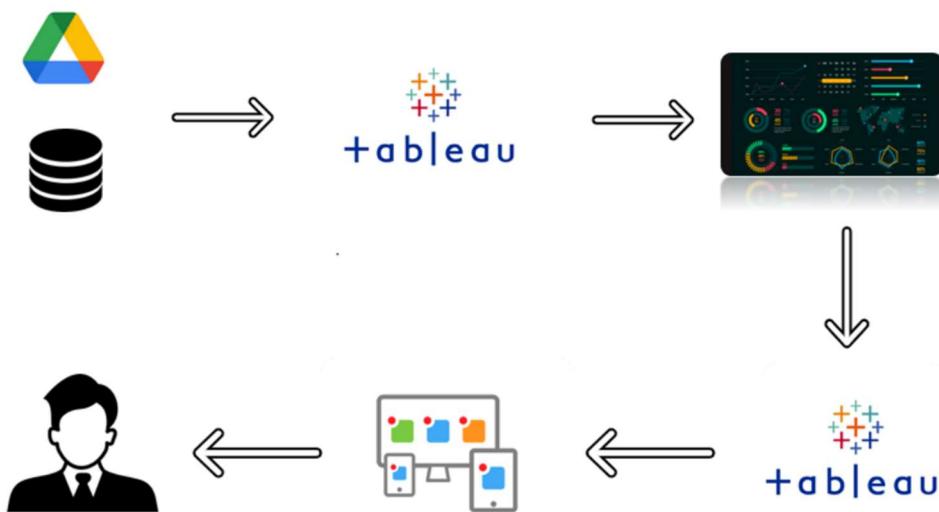
The publication's global perspective enables users to witness shifts and trends over time and conduct insightful cross-country analyses. It stands as a sentinel, revealing countries grappling with mounting debt burdens, susceptibility to external shocks, and potential issues in achieving debt sustainability. Armed with comprehensive and dependable data, it lends its support to well-informed policy formulation and decision-making, both at the national and international levels.

Beyond its role as a repository of raw data, International Debt Statistics offers perceptive analysis and commentary on the emergence of debt trends and their far-reaching implications. It illuminates critical themes relating to debt sustainability, strategies for managing debt, and the influence of debt on economic development. Furthermore, it provides a platform for the discussion of policy considerations and offers recommendations for countries aiming to prudently navigate the complexities of debt management.

The fluid nature of global debt markets and the constant evolution of the economic landscape compel International Debt Statistics to remain continuously updated with the latest data. Its credibility as a dependable information source bolsters evidence-based research, catalyzes constructive dialogues among policymakers, and deepens the comprehension of global financial stability.

In summation, International Debt Statistics stands as an expansive compendium offering a meticulous overview of global external debt levels and the associated financial dynamics. It weaves together a rich tapestry of data, analysis, and insights, serving as an essential tool to empower policymakers, economists, and researchers in tackling the multifaceted challenges of international debt.

## Technical Architecture:



## Project Flow:

### 1. Define Problem / Problem Understanding:

- Specify the business problem: Clearly define the problem you aim to address through your project.
- Business requirements: List the specific requirements your project must meet to solve the problem.
- Literature Survey: Research existing solutions, methodologies, or related work.
- Social or Business Impact: Identify how solving the problem will impact society or business.

### 2. Data Collection & Extraction from Database:

- Collect the dataset: Gather the necessary data for your project.
- Connect dataset with Tableau: Integrate the collected data with Tableau for visualization.

### 3. Data Preparation:

- Prepare the Data for Visualization: Clean, preprocess, and format the data to make it suitable for visualization.

### 4. Data Visualizations:

- Create a specified number of unique visualizations to represent the data effectively.

### 5. Dashboard:

- Design a responsive dashboard to display your visualizations in an organized and user-friendly manner.

### 6. Story:

- Create a specified number of scenes in your story to guide users through the data and insights.

## **7. Performance Testing:**

- Evaluate the performance of your Tableau project.
- Measure the amount of data rendered to the database.
- Assess the utilization of data filters within your visualizations.
- Count the number of calculation fields and visualizations/graphs used.

## **8. Web Integration:**

- Embed the dashboard and story into a user interface (UI) using Flask or other web technologies.

## **9. Project Demonstration & Documentation:**

- Record an explanation video that covers your project from start to finish.
- Create comprehensive project documentation detailing the step-by-step development procedure, including data sources, data cleaning, visualization creation, and web integration.

### **Milestone 1: Define Problem / Problem Understanding**

#### **Activity 1: Specify the Business Problem**

In the context of our project, the business problem entails the need to leverage International Debt Statistics to provide valuable insights and knowledge to organizations and governments. This involves making this complex financial data accessible and understandable to various stakeholders.

#### **Activity 2: Business Requirements**

For our project, the business requirements include:

- **Data Collection and Extraction:** The initial requirement is to collect data from various sources relevant to international debt statistics. This data should be reliable and regularly updated.
- **Data Cleaning and Preparation:** The collected data must undergo rigorous cleaning and preprocessing to remove inconsistencies, missing values, and to transform it into a format suitable for analysis. The integrity and quality of the data are of utmost importance.
- **Data Analysis:** Our objective is to analyze this data effectively to uncover meaningful insights. This will involve applying statistical techniques, data visualization, and potentially machine learning to gain a deeper understanding of international debt trends.
- **Report Creation:** The results of our data analysis should be presented in a comprehensive report. This report must include visually appealing visualizations, data tables, and be organized in a way that is easily understood by our target audience, which could include policymakers, financial analysts, and researchers.

#### **Activity 3: Literature Survey**

In the context of our International Debt Statistics project, the literature survey involves reviewing existing research and publications that have utilized or analyzed the data provided. Key areas of focus for this project's literature survey include:

1. **Debt Trends and Economic Impacts:** Research should explore how international debt levels impact economic development, investment, and poverty reduction in different countries.
2. **Debt Composition and Creditor Types:** We will study the composition of external debt and the roles played by multilateral institutions, bilateral lenders, and private creditors in shaping debt profiles.
3. **Debt Vulnerability and Prevention:** Scholars will analyze early warning indicators of debt crises and develop policy recommendations for managing debt vulnerabilities.
4. **Debt Management Strategies:** Our study will assess the strategies employed by countries to handle external debt effectively, including debt issuance practices and debt restructuring mechanisms.
5. **Comparative Analysis:** We will utilize International Debt Statistics to make regional and cross-country comparisons, identifying patterns and factors influencing debt dynamics.
6. **Financial Stability and Risk Assessment:** Our project will delve into the potential risks associated with high debt levels and their impact on financial stability, analyzing the link between external debt and financial crises.

#### **Activity 4: Social or Business Impact**

For our International Debt Statistics project, both social and business impacts are of significance:

##### **Social Impact:**

- **Informed Policy Decisions:** Providing accessible debt data enables policymakers to make informed decisions that benefit their nations.
- **Transparency and Accountability:** Accessible data promotes transparency in financial transactions and enhances government accountability.
- **Public Awareness and Advocacy:** Availability of debt information can empower citizens and NGOs to advocate for responsible financial management.
- **Research and Academic Engagement:** Our project can foster academic research, enriching the understanding of global financial dynamics.
- **International Cooperation and Assistance:** By providing data to international financial institutions, our project can foster cooperation in addressing debt-related challenges.

##### **Business Impact:**

- **Risk Assessment and Investment Decisions:** Businesses can leverage debt data to assess risks and make informed investment decisions.
- **Market Analysis and Expansion Opportunities:** Our project enables businesses to analyze debt trends in different markets, helping them identify expansion opportunities.
- **Credit Risk Assessment and Trade Financing:** Accessible debt data aids in assessing the credit risk of international trade partners.
- **Debt Management and Financial Planning:** Businesses can optimize debt management strategies with the insights provided.

- **Policy and Regulatory Environment:** Businesses can better navigate international financial regulations and adapt their strategies accordingly.
- **Collaboration with International Financial Institutions:** Our project can facilitate collaboration between businesses and international financial institutions in addressing global financial challenges.

These adapted activities help to clarify how your project aligns with the defined problem, business requirements, and its potential social and business impacts.

### **Milestone 2: Data Collection & Extraction from Database**

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.

#### **Activity 1: Collect the dataset**

Dataset Collected from Kaggle and Official World Bank site.

**Link:** <https://www.kaggle.com/datasets/theworldbank/international-debt-statistics>

|                   |                                     |                  |                         |           |
|-------------------|-------------------------------------|------------------|-------------------------|-----------|
| IDSCountry        | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 80 KB     |
| IDSCountry-Series | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 64 KB     |
| IDSData           | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 15,424 KB |
| IDSEXCEL          | <input checked="" type="checkbox"/> | 04-11-2023 18:54 | Microsoft Excel Work... | 4,273 KB  |
| IDSFootNote       | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 236 KB    |
| IDSSeries         | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 243 KB    |
| IDSSeries-Time    | <input checked="" type="checkbox"/> | 04-11-2023 18:40 | Microsoft Excel Com...  | 1 KB      |

#### **Activity 1.1: Understand the data**

#### **Activity 2: Connect Dataset to Tableau**

The screenshot shows the Tableau Public interface with the following details:

- File:** Tableau Public - Book1
- Connections:** A single connection named "IDSData" is listed under "Text file".
- Files:** Several CSV files are listed, including "IDSCountry.csv", "IDSCountry-Series.csv", "IDSData.csv", "IDSFootNote.csv", "IDSSeries-Time.csv", and "IDSSeries.csv".
- Notes:** A note indicates that the data was "Cleaned with Data Interpreter".
- Review the results:** A link to review the results of the cleaning process is provided.

## Milestone 3: Data Preparation

### Activity 1: Prepare the Data for Visualization

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency.

#### Activity 1.1: Preparing a Data Module

| Name           | IDSCountry.csv | Fields | Type | Field Name    | Physical Table | Remote Field... |
|----------------|----------------|--------|------|---------------|----------------|-----------------|
| IDSCountry.csv |                |        |      | Country Code  | IDSCountry.csv | Country Code    |
|                |                |        |      | Short Name1   | IDSCountry.csv | Short Name      |
|                |                |        |      | Table Name    | IDSCountry.csv | Table Name      |
|                |                |        |      | Long Name     | IDSCountry.csv | Long Name       |
|                |                |        |      | 2-Alpha Code  | IDSCountry.csv | 2-alpha code    |
|                |                |        |      | Currency Unit | IDSCountry.csv | Currency Unit   |
|                |                |        |      | Special Notes | IDSCountry.csv | Special Notes   |
|                |                |        |      | Region1       | IDSCountry.csv | Region          |
|                |                |        |      | Income Group1 | IDSCountry.csv | Income Group    |
|                |                |        |      | WB-2 code     | IDSCountry.csv | WB-2 code       |

| IDSCountry.csv | Abc IDSCountry.csv | Abc IDSCountry.csv | Abc IDSCountry.csv               | Abc IDSCountry.csv | Abc IDSCountry.csv     | Abc IDSCountry.csv | At IDSCountry.csv |
|----------------|--------------------|--------------------|----------------------------------|--------------------|------------------------|--------------------|-------------------|
| Country Code   | Short Name1        | Table Name         | Long Name                        | 2-Alpha Code       | Currency Unit          | Sp                 |                   |
| AFG            | Afghanistan        | Afghanistan        | Islamic State of Afghanistan     | AF                 | Afghan afghani         | Fi                 |                   |
| AGO            | Angola             | Angola             | People's Republic of Angola      | AO                 | Angolan kwanza         |                    |                   |
| ALB            | Albania            | Albania            | Republic of Albania              | AL                 | Albanian lek           |                    |                   |
| ARG            | Argentina          | Argentina          | Argentine Republic               | AR                 | Argentine peso         | N                  |                   |
| ARM            | Armenia            | Armenia            | Republic of Armenia              | AM                 | Armenian dram          |                    |                   |
| AZE            | Azerbaijan         | Azerbaijan         | Republic of Azerbaijan           | AZ                 | New Azeri manat        |                    |                   |
| BDI            | Burundi            | Burundi            | Republic of Burundi              | BI                 | Burundi franc          |                    |                   |
| BEN            | Benin              | Benin              | Republic of Benin                | BJ                 | West African CFA franc |                    |                   |
| BFA            | Burkina Faso       | Burkina Faso       | Burkina Faso                     | BF                 | West African CFA franc |                    |                   |
| BGD            | Bangladesh         | Bangladesh         | People's Republic of Banglade... | BD                 | Bangladeshi taka       | Fi                 |                   |
| BGR            | Bulgaria           | Bulgaria           | Republic of Bulgaria             | BG                 | Bulgarian lev          | Ti                 |                   |
| BIH            | Bosnia and Herz... | Bosnia and Her...  | Bosnia and Herzegovina           | BA                 | Bosnia and Herzegov... |                    |                   |
| BLR            | Belarus            | Belarus            | Republic of Belarus              | BY                 | Belarusian rubel       | In                 |                   |
| BI_7           | Relyea             | Relyea             | Relyea                           | BI_7               | Relyea dollar          |                    |                   |

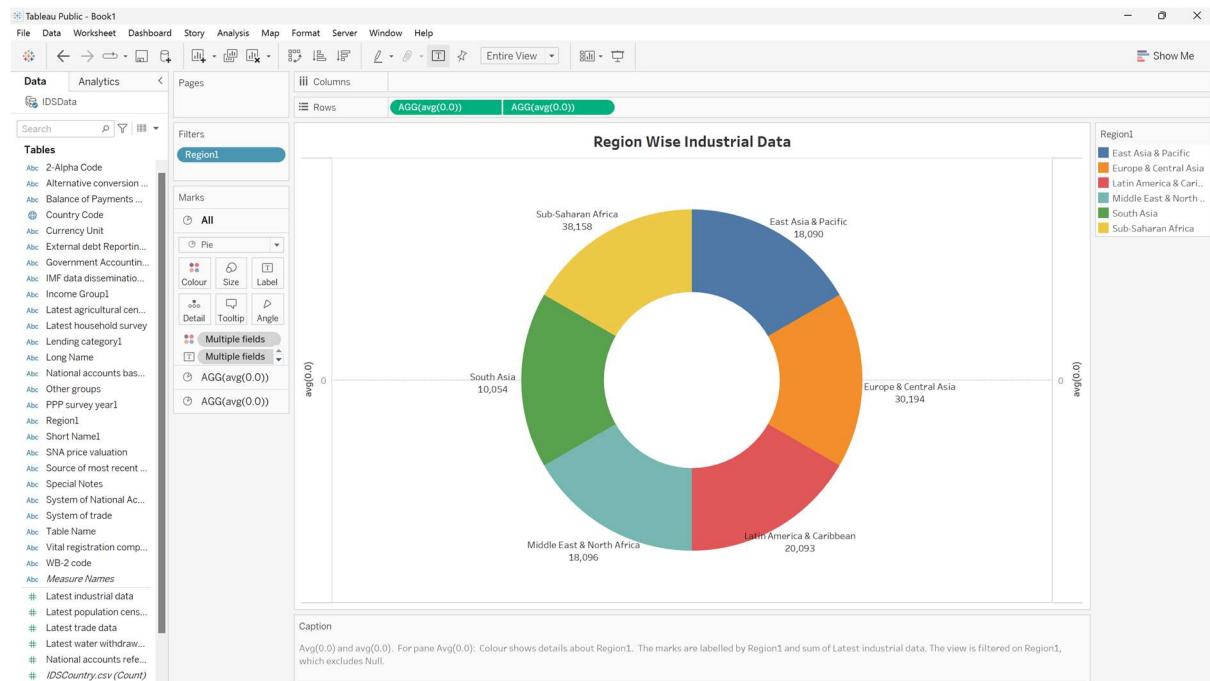
## Milestone 4: Data Visualization

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.

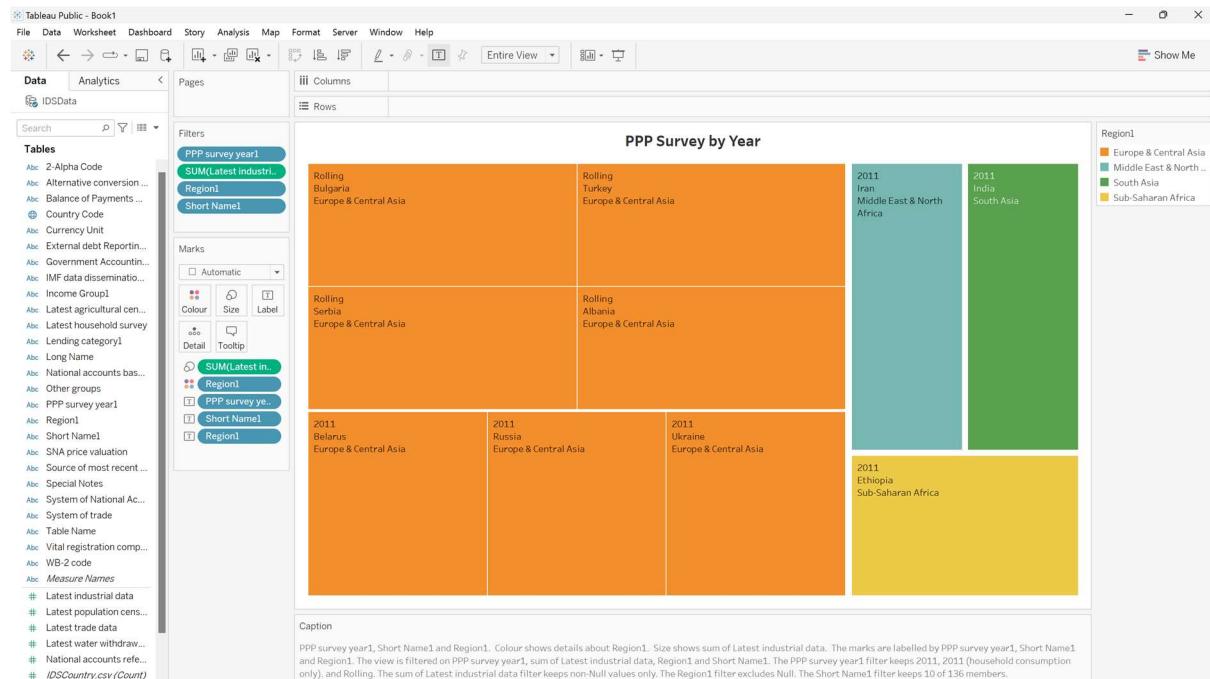
### Activity 1: No of Unique Visualizations

The number of unique visualizations that can be created with a given dataset. Some common types of visualizations that can be used to analyze the Rice production include bar charts, line charts, heat maps, scatter plots, pie charts, maps, etc. These visualizations can be used to compare performance, track changes over time, show distribution, and relationships between variables.

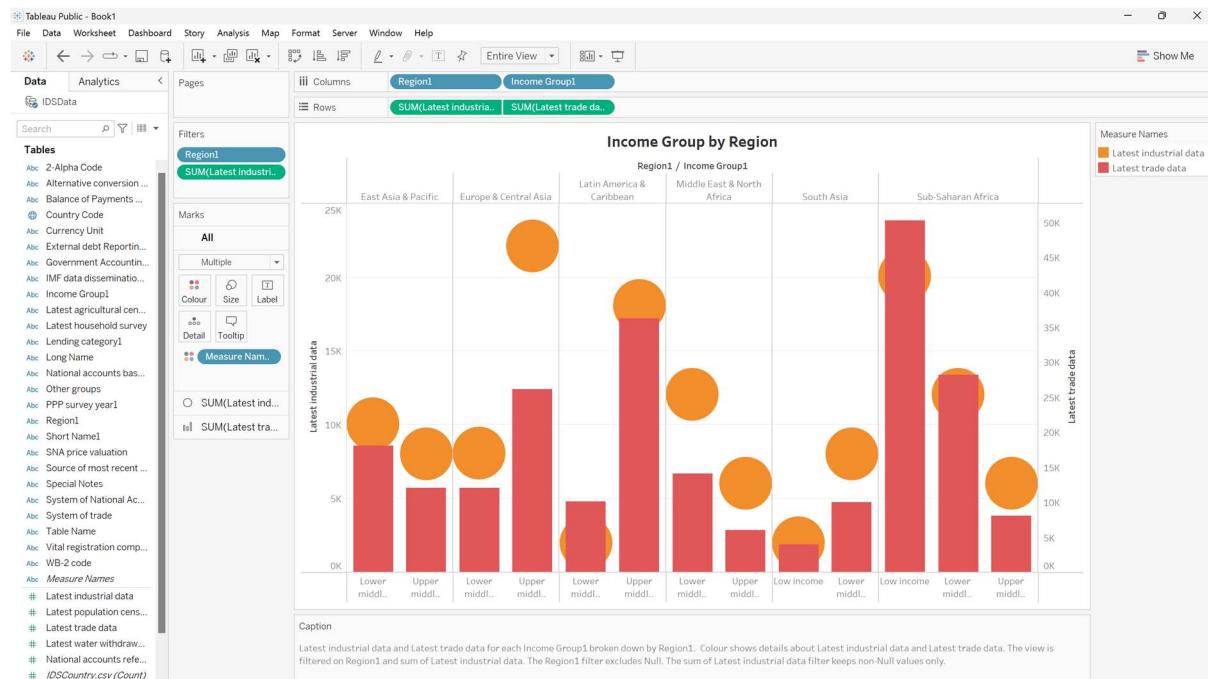
## Activity 1.1: Region Wise Industrial Data



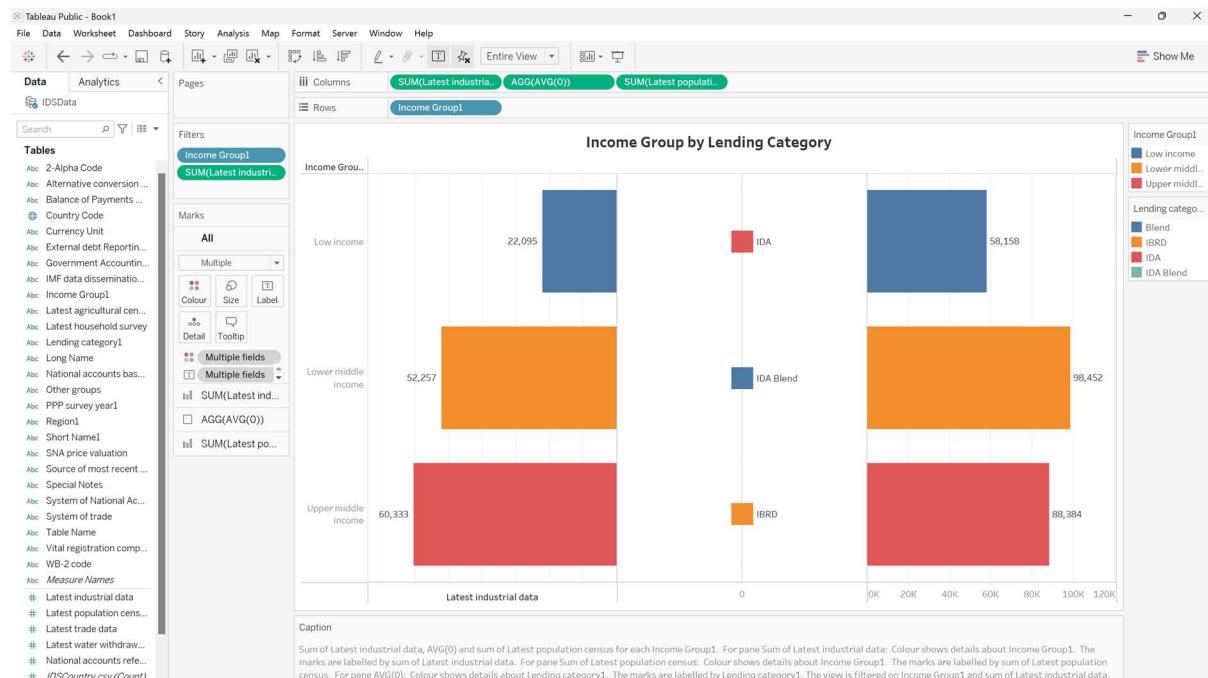
## Activity 1.2: PPP Survey by Year



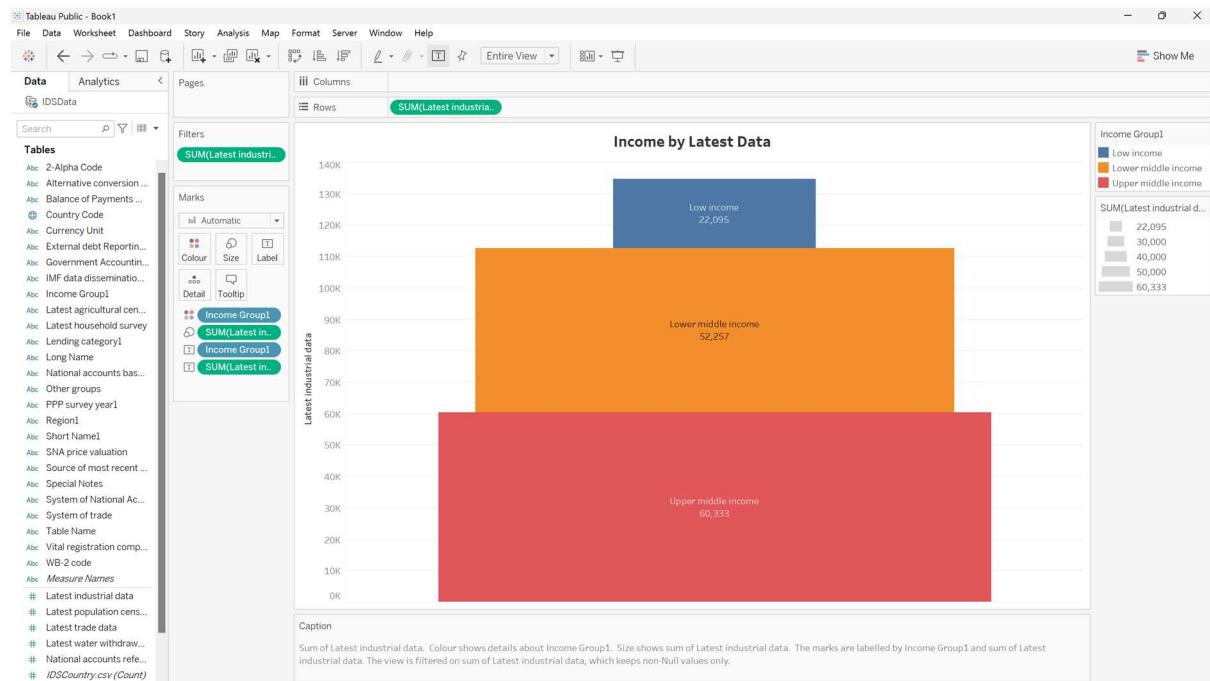
## Activity 1.3: Income Group by Region



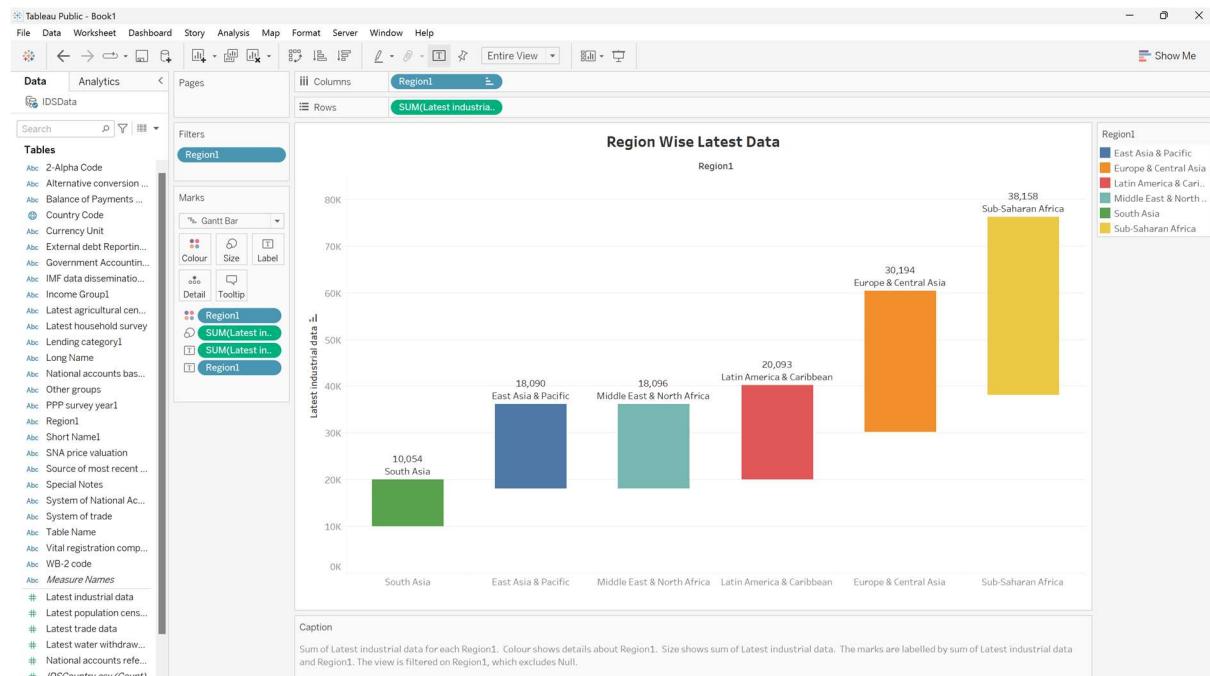
## Activity 1.4: Income Group by Lending Category



## Activity 1.5: Income by Latest Data



## Activity 1.6: Region Wise Latest Data



## Milestone 5: 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.

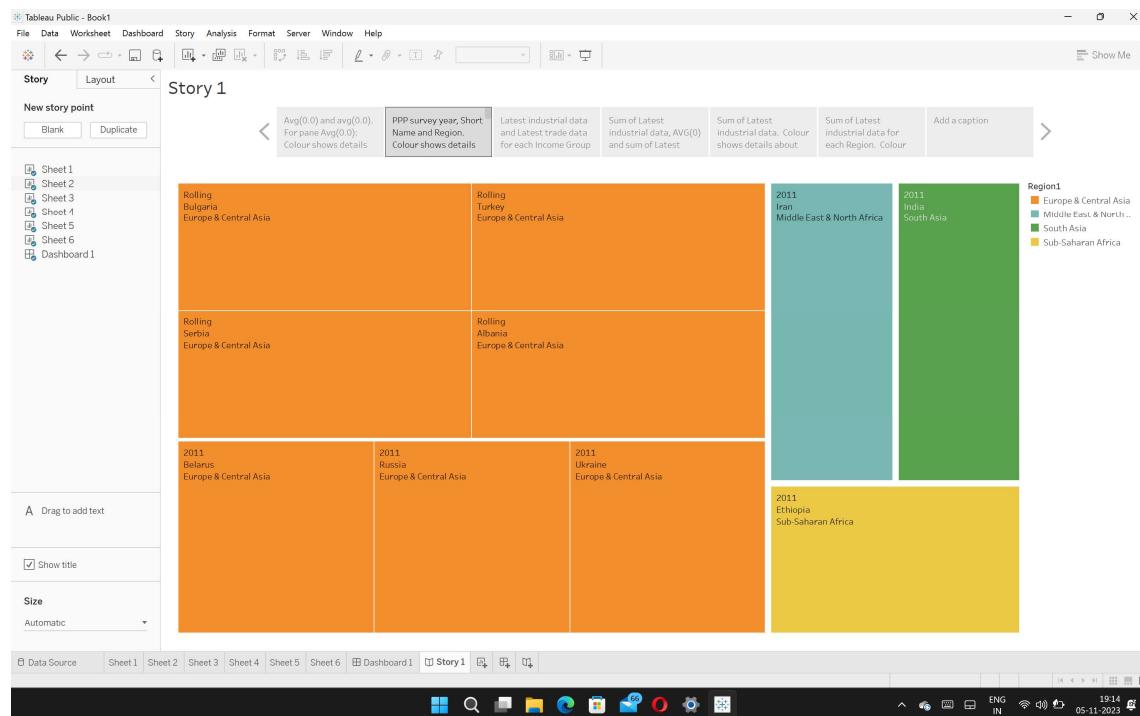
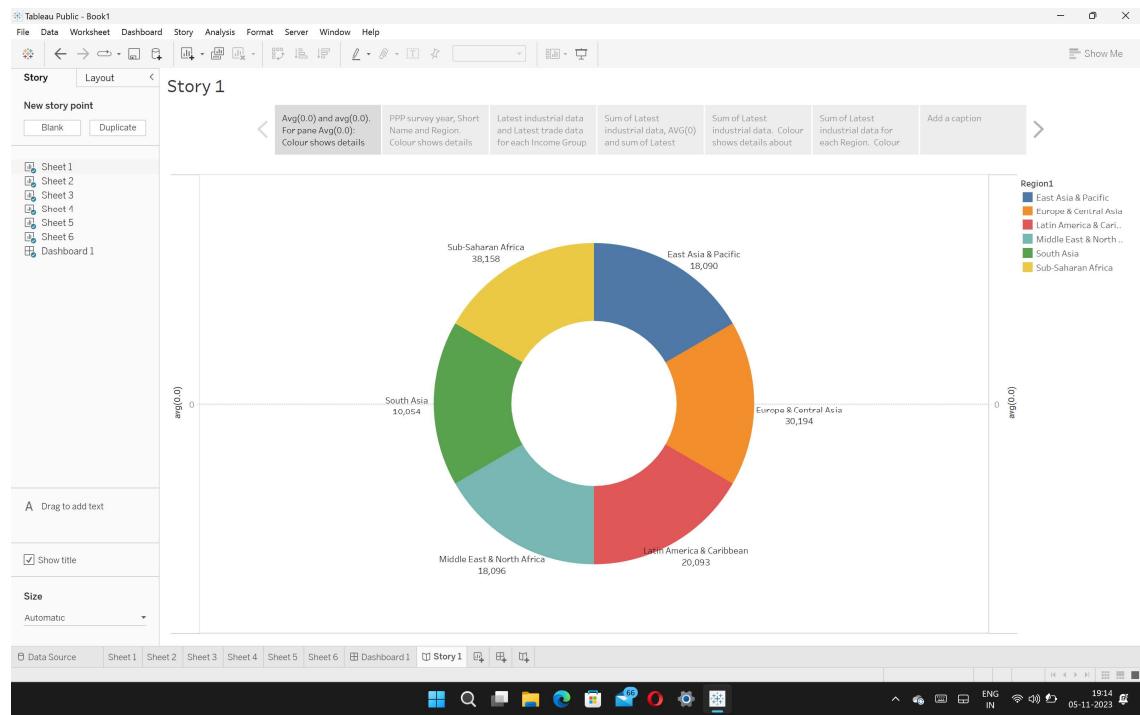
### Activity 1: Responsive and Design of Dashboard

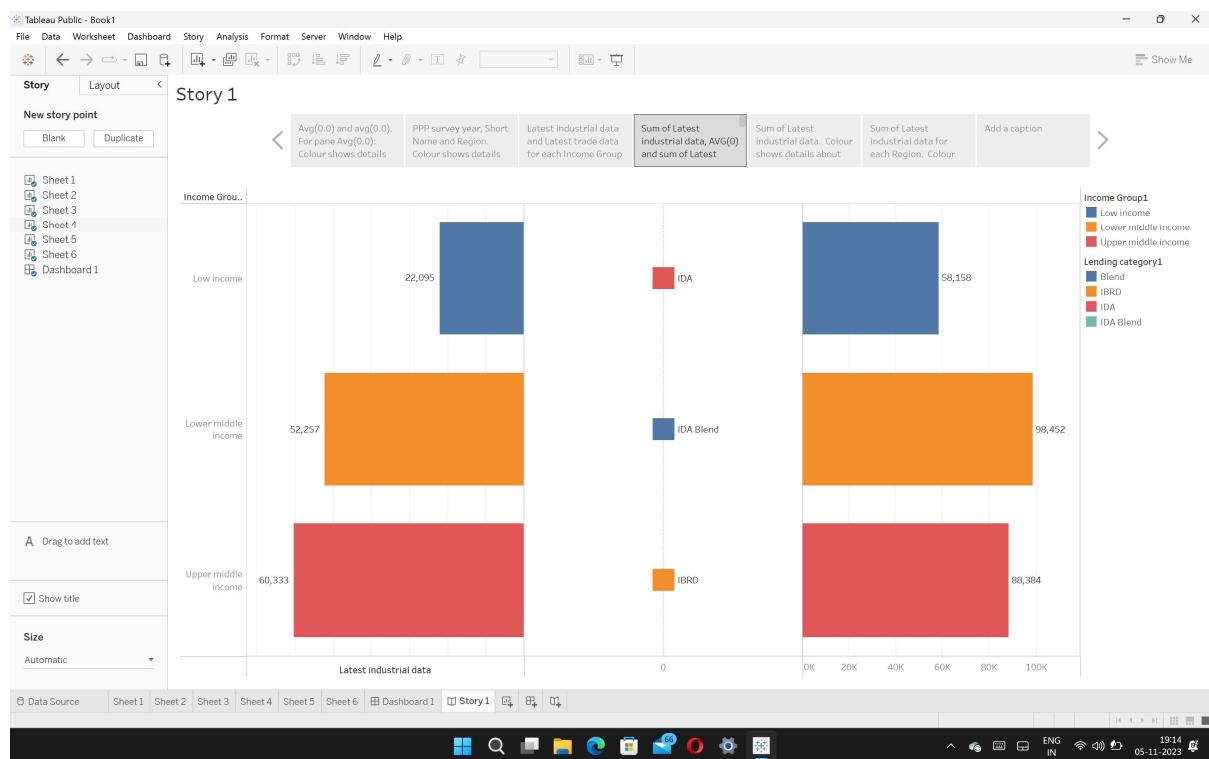
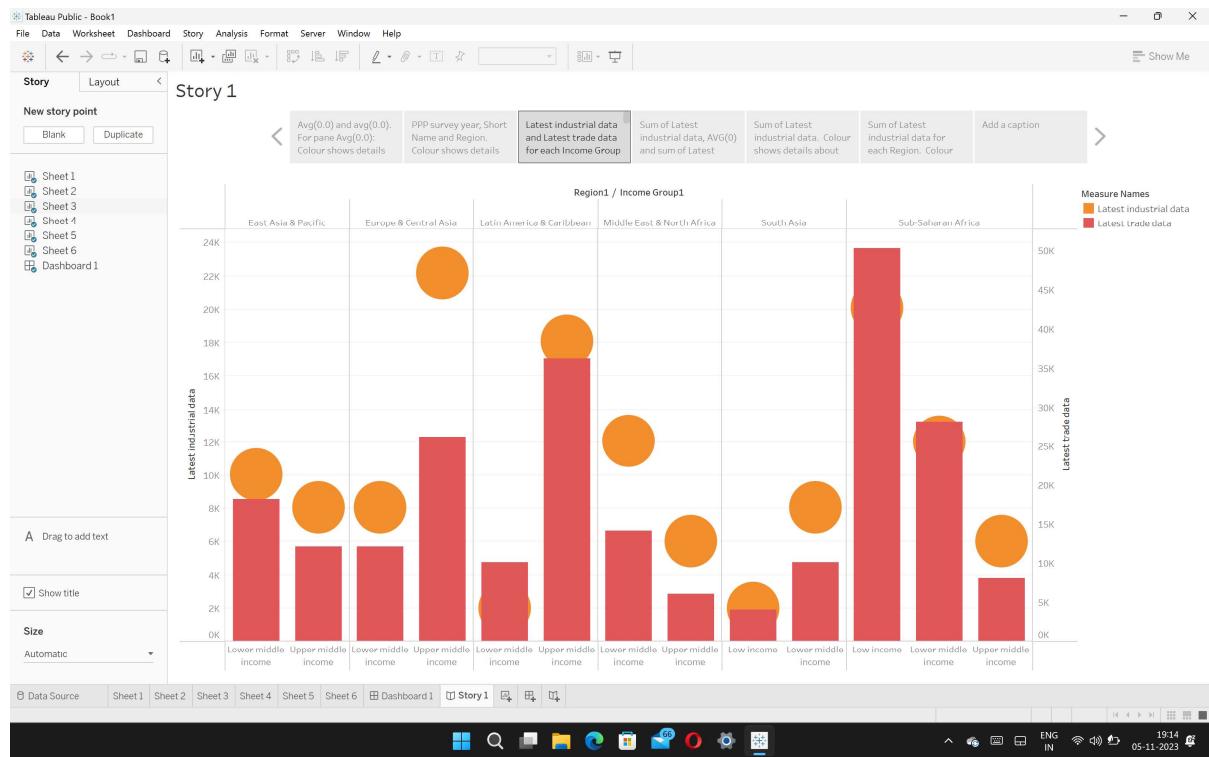


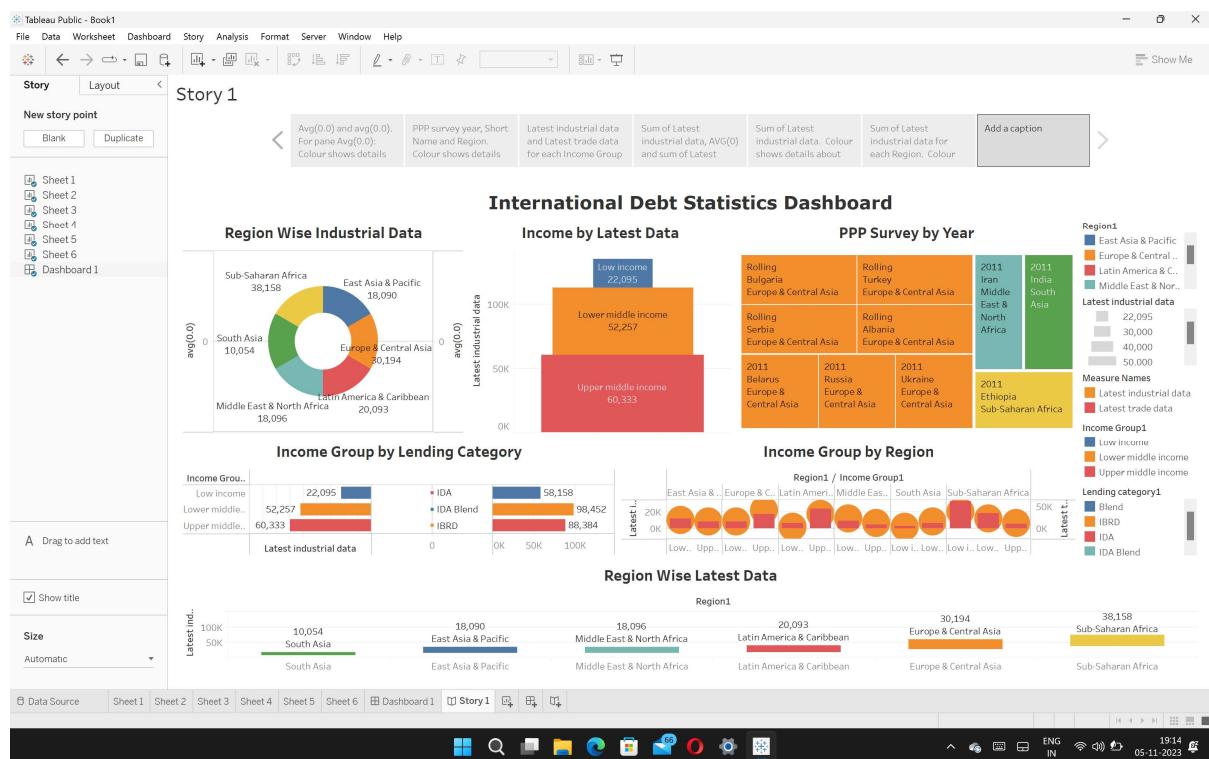
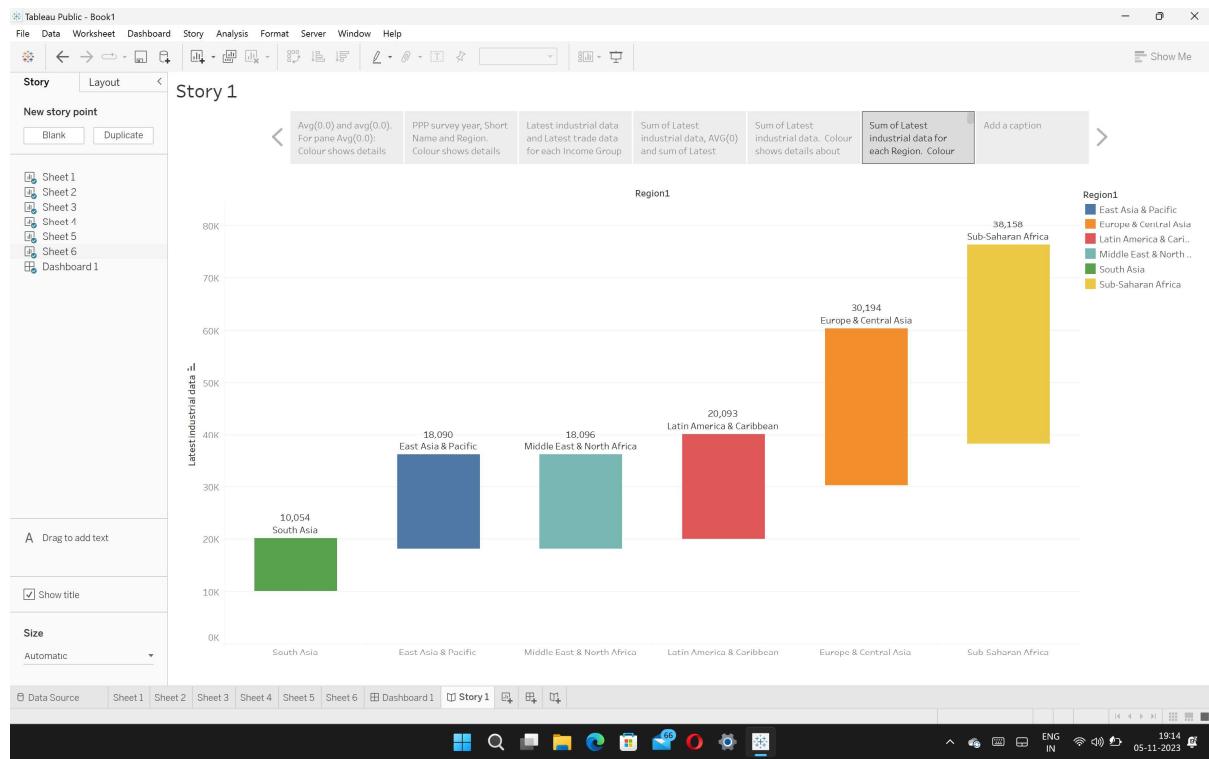
## Milestone 6: Story

A data story is a way of presenting data and analysis in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.

## **Activity 1: No of Scenes of Story**







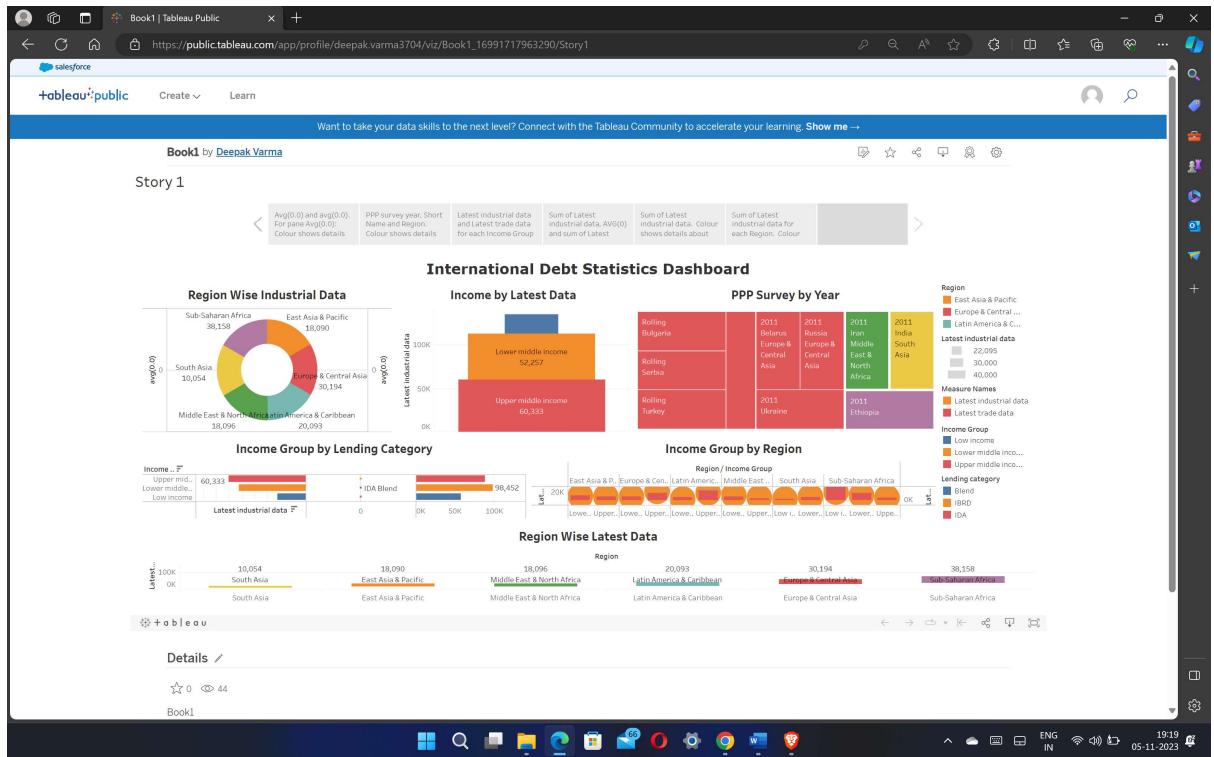
## Milestone 8: Performance Testing

## Milestone 9: Web integration

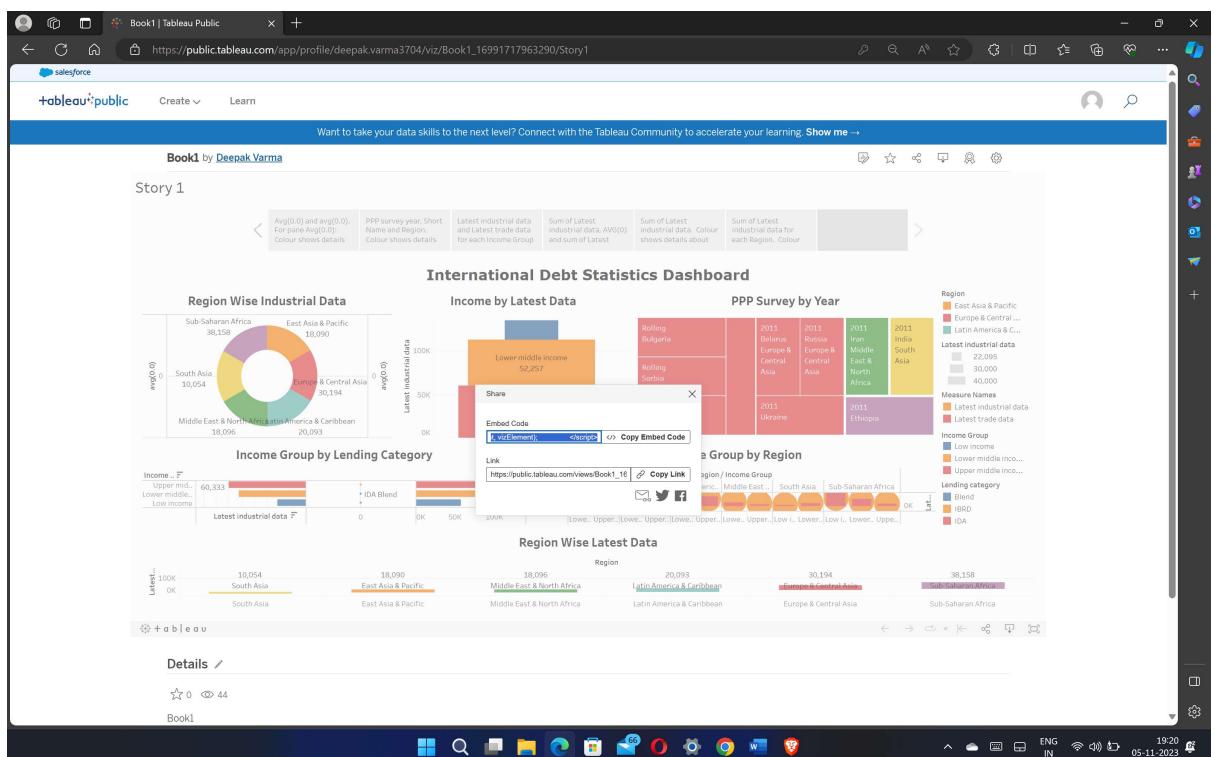
Integrating dashboard/reports/stories to web

### Activity 1: Dashboard and Story embed with UI

1. Publish your sheet in your Tableau Public account.



2. Get the shareable link.



### 3. Embed it in your HTML code.

File Edit Selection View Go Run Terminal Help ↶ ↷ Search

Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More

index.html ×

C:\Users\deepa\OneDrive\Desktop\DA Project\Website> index.html > ...

```
127     <div class="icon"><i class="bx bx-file"></i></div>
128     <h4 class="title"><a href="#">Debt Sustainability</a></h4>
129     <p class="description">Explore reports on the sustainability of debt in different regions, including recommendations for policymakers and investors.</p>
130   </div>
131 </div>
132
133 <div class="col-md-6 col-lg-3 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="200">
134   <div class="icon-box icon-box-green">
135     <div class="icon"><i class="bx bx-tachometer"></i></div>
136     <h4 class="title"><a href="#">Data Insights</a></h4>
137     <p class="description">Access a comprehensive database of economic data, financial indicators, and debt statistics for informed decision-making.</p>
138   </div>
139 </div>
140
141 <div class="col-md-6 col-lg-3 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="200">
142   <div class="icon-box icon-box-blue">
143     <div class="icon"><i class="bx bx-world"></i></div>
144     <h4 class="title"><a href="#">Global Impact</a></h4>
145     <p class="description">Discover the global impact of debt on various sectors, including healthcare, education, and infrastructure development.</p>
146   </div>
147 </div>
148 </div>
149 </div>
150
151 <div class="tableauPlaceholder" id="viz1699176985226" style="position: relative"><noscript><a href="#">
162   <!-- ... (Continued) ... -->
163 </footer><!-- End Footer -->
164
165 <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>
166
167 <!-- Footer Scripts -->
168
169 <!-- Global JS Files -->
```

File Edit Selection View Go Run Terminal Help ↶ ↷ Search

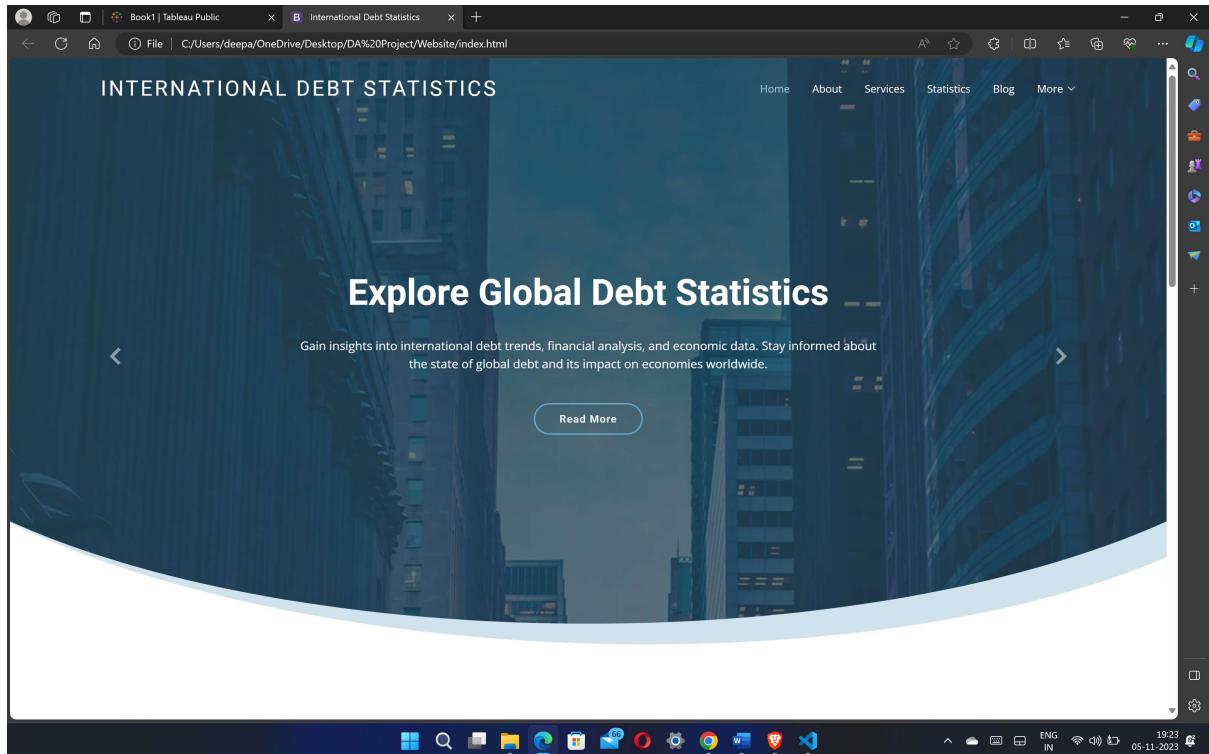
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index.html ×

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166
167 <!-- Footer Scripts -->
168
169 <!-- Global JS Files -->
```

## Activity 1.1: Web Integration



# INTERNATIONAL DEBT STATISTICS

## Economic Challenges

Our reports provide in-depth analysis of debt sustainability, debt relief programs, and their implications on developing and developed nations.

Read More

### Economic Analysis

Insights into global economic challenges and trends, helping you understand the impact of debt on countries' financial stability.

### Debt Sustainability

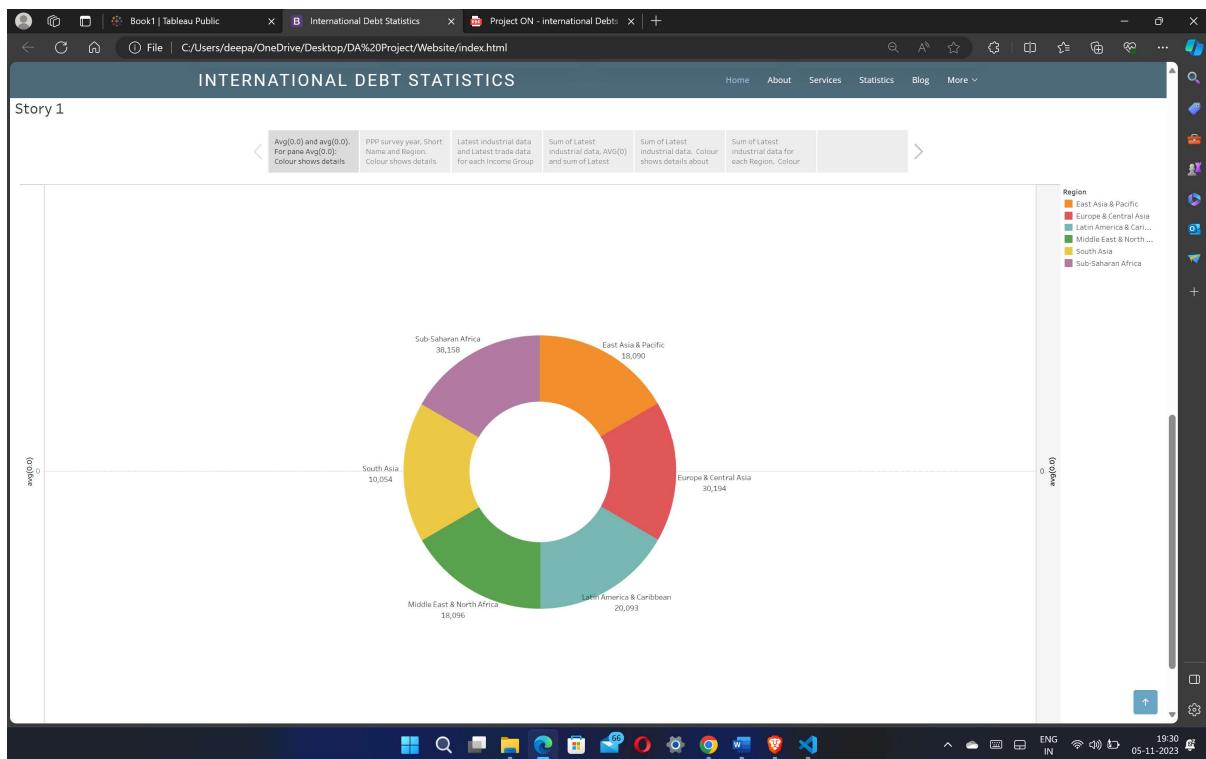
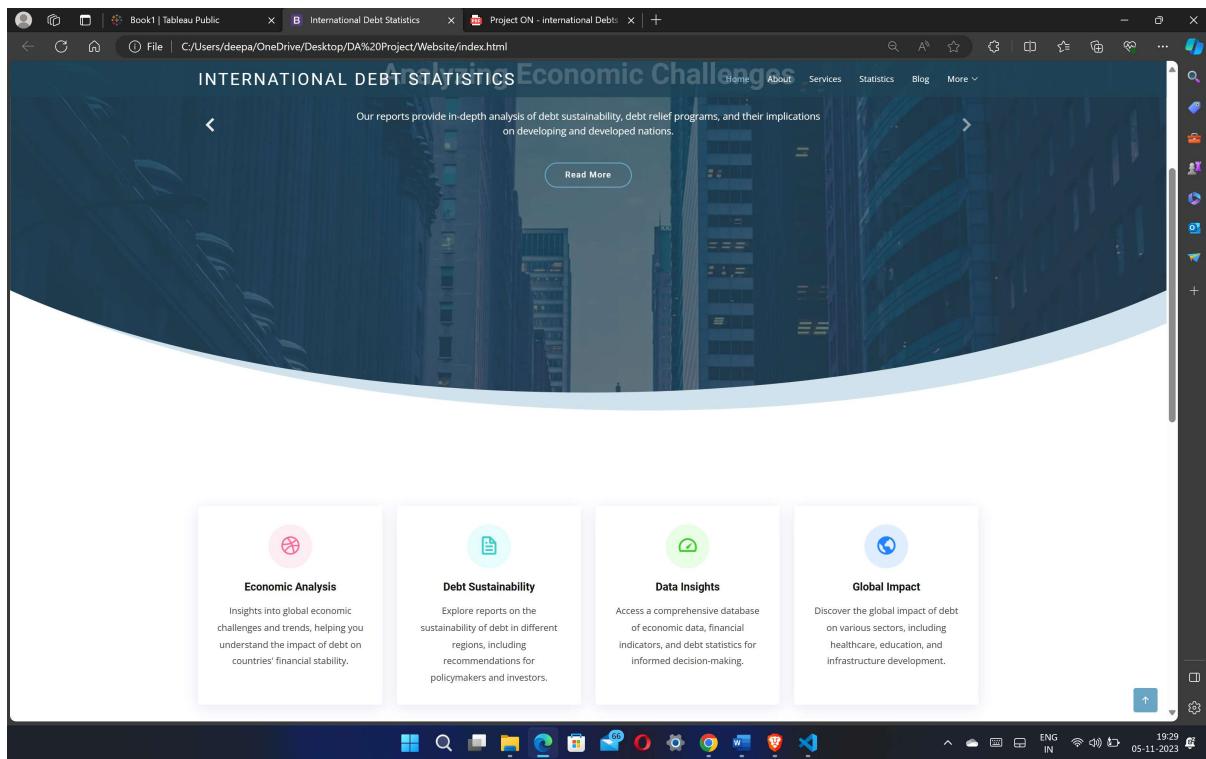
Explore reports on the sustainability of debt in different regions, including recommendations for policymakers and investors.

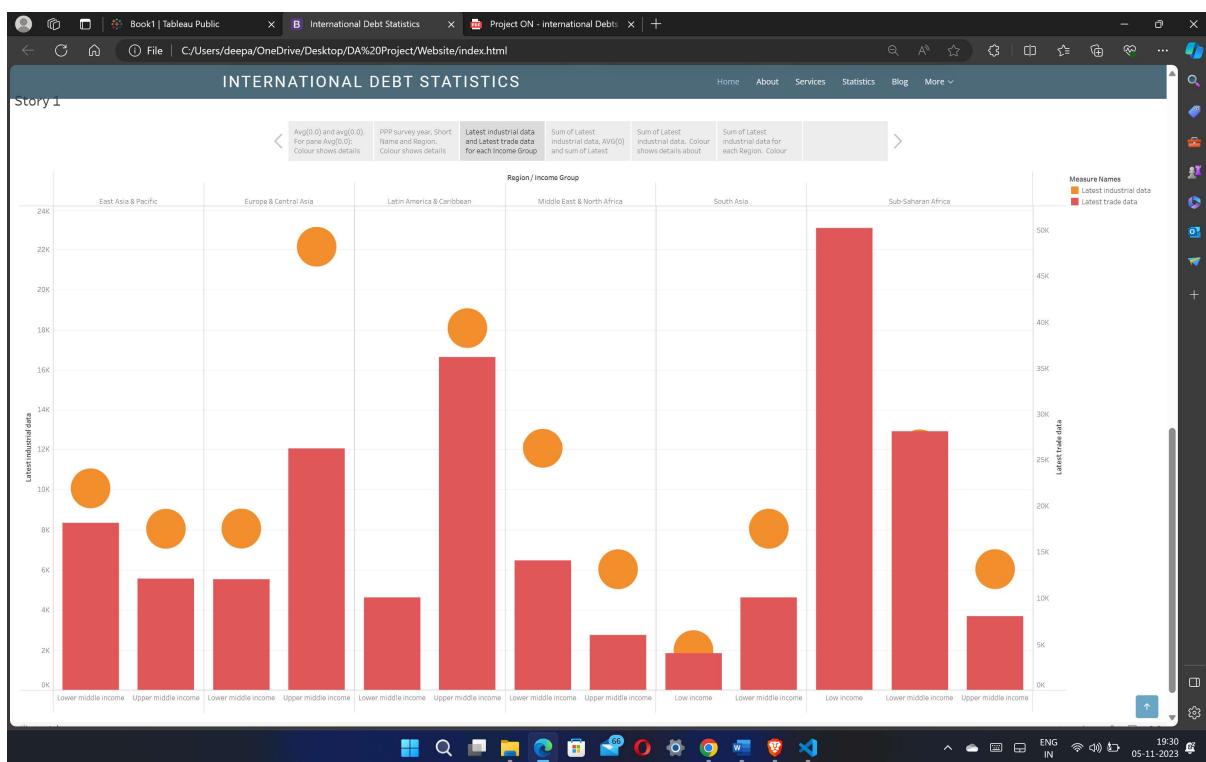
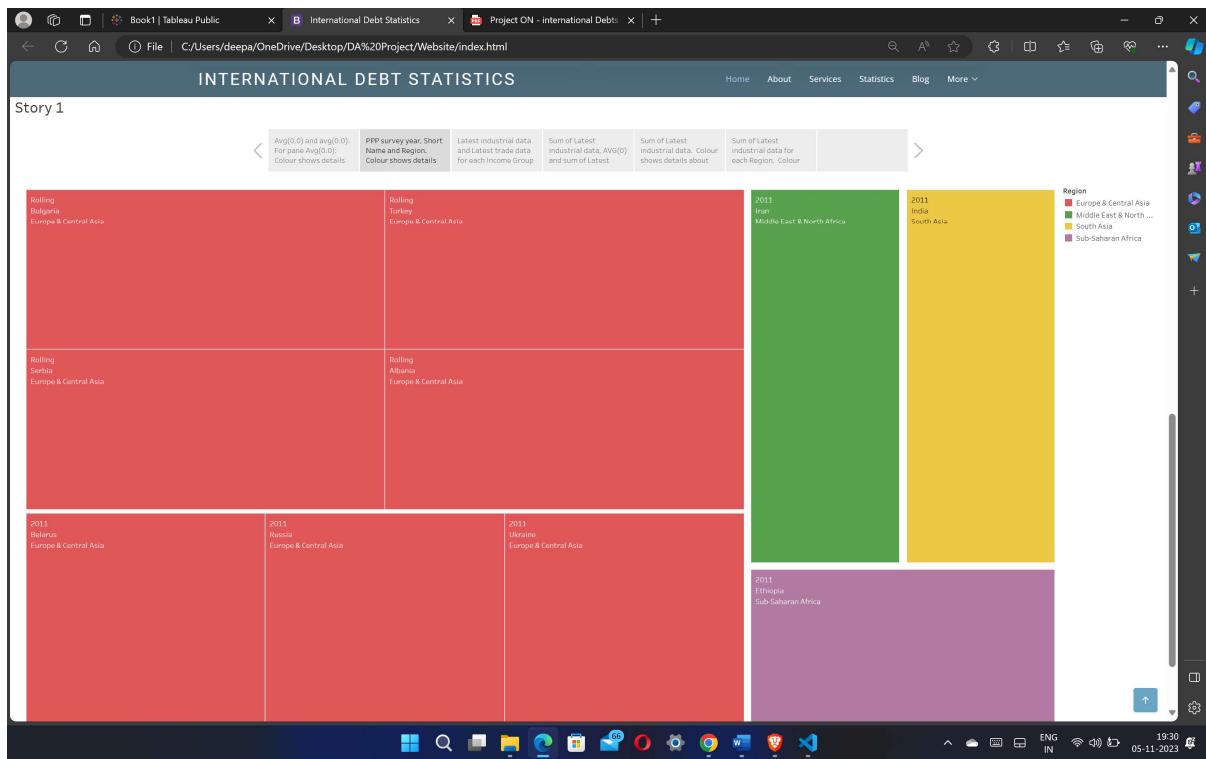
### Data Insights

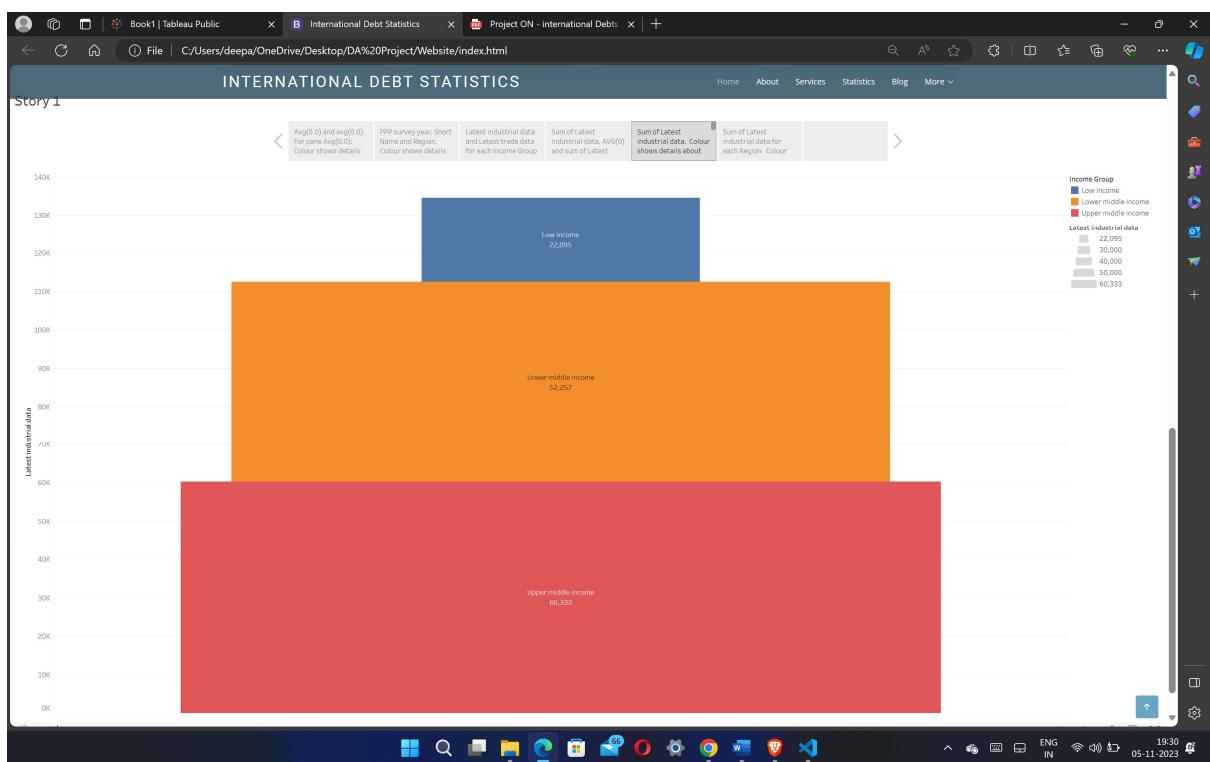
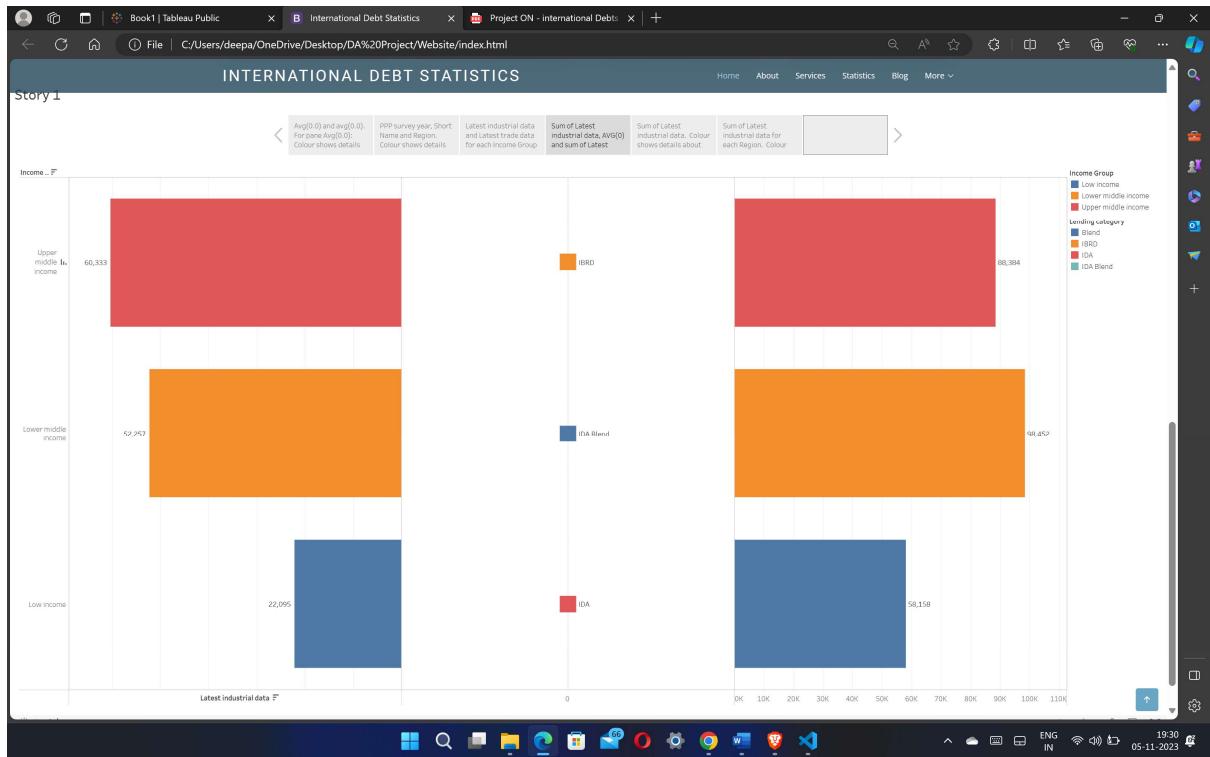
Access a comprehensive database of economic data, financial indicators, and debt statistics for informed decision-making.

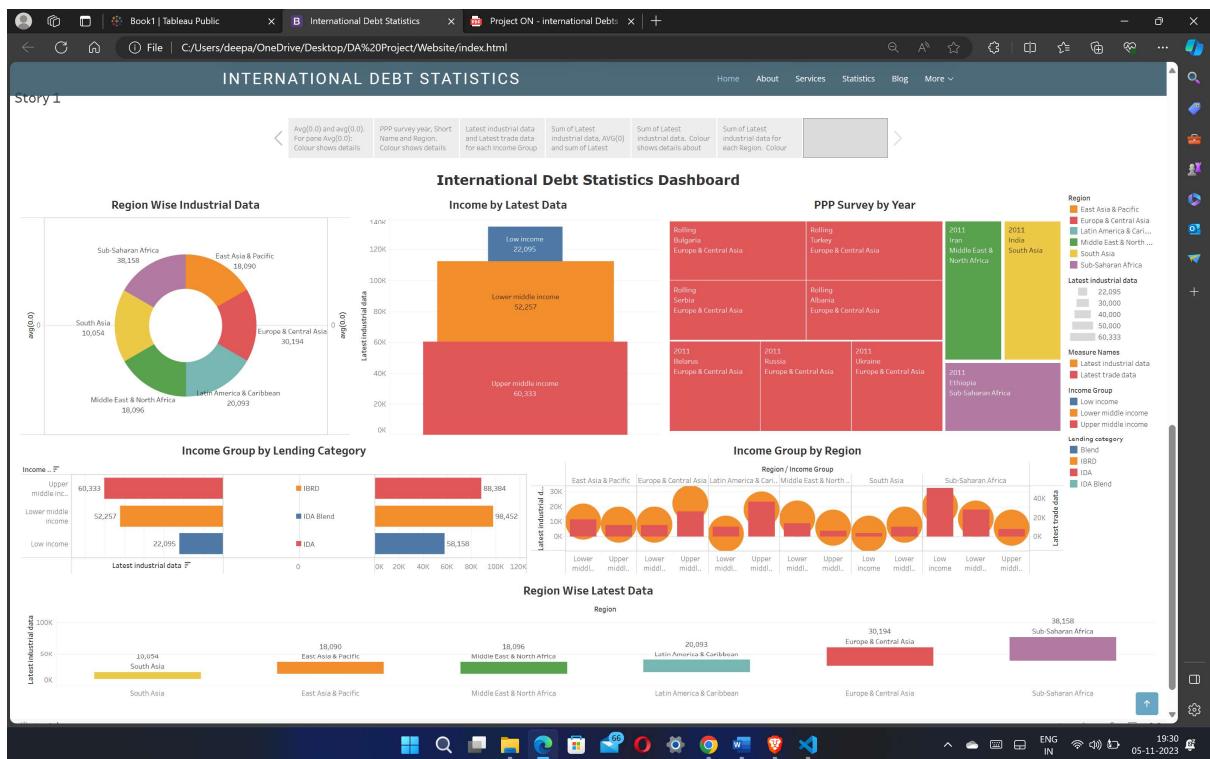
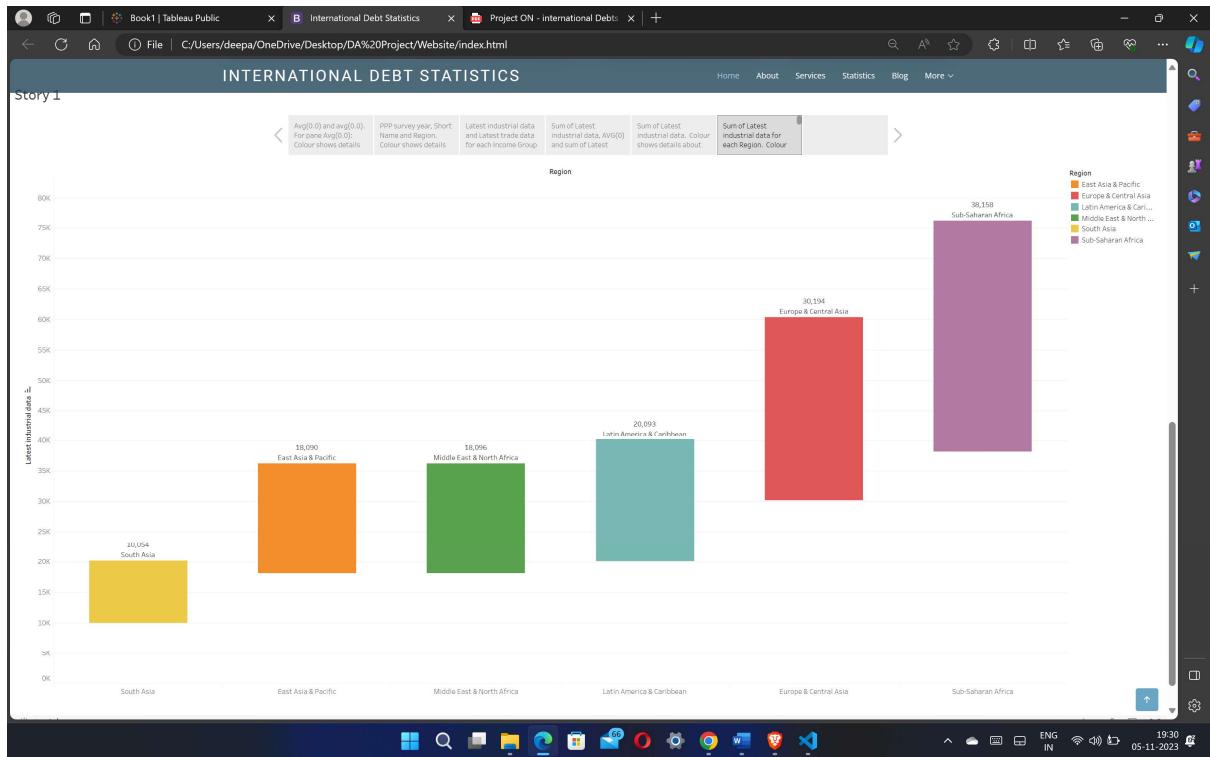
### Global Impact

Discover the global impact of debt on various sectors, including healthcare, education, and infrastructure development.









## Activity 1.2: Flask Deployment:

The screenshot shows a terminal window with the following output:

```
PS C:\Users\deepa\OneDrive\Desktop\DA Project\Website> python -u "c:\Users\deepa\OneDrive\Desktop\DA Project\Website\sap.py"
* Serving Flask app 'sap'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 522-330-076
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/aos/aos.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/bootstrap/bootstrap.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/animate/animate.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/bootstrap-icons/bootstrap-icons.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/boxicons/css/boxicons.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/glightbox/css/glightbox.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/css/style.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/swiper/swiper-bundle.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/swiper/swiper-bundle.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/waypoints/noframework.waypoints.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/purecounter/purecounter_vanilla.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/aos.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/bootstrap/bootstrap.bundle.min.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/all-in-one-fancybox.min.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/listotope/listotope.pkgd.min.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/vendor/php-email-form/validate.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:47] "GET /assets/js/main.js HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:48] "GET /assets/img/favicon.png HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:54] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [05/Nov/2023 20:29:54] "GET /assets/vendor/animate/animate.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:54] "GET /assets/vendor/bootstrap/bootstrap.min.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:54] "GET /assets/vendor/aos/aos.css HTTP/1.1" 404 -
127.0.0.1 - - [05/Nov/2023 20:29:54] "GET /assets/css/style.css HTTP/1.1" 404
```