



# > Introduction

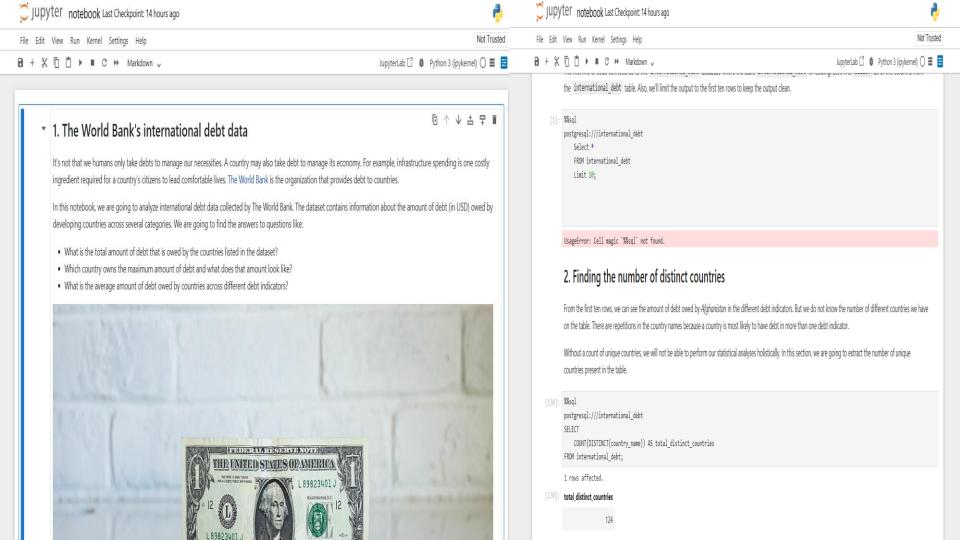
This project aims to Analyze international debt statistics and delve into the key aspects of international debt statistics, providing insights into definitions, trends, and the significance of such analysis in the global economy.

The world's debt situation has become more complicated in recent years. Many countries owe more money, and there are concerns about whether they can pay it back. The COVID-19 pandemic made things worse, causing governments to borrow even more money.

#### **Screenshot:** O Search Arjun Kumar 23SCSE1010368 🇥 Untitled - Power Bl Desktop File Insert Modeling View Optimize Help 🖒 Share 🗸 4 0 SQL Recent Transform Refresh New Quick Publish Prep data for Copilot Format painter data v workbook catalog v sources ~ data 🗸 visual box visuals ~ calculation - measure measure Clipboard Data Queries Insert Calculations Sensitivity Share Copilot Visualizations >> ~ Sum of debt by country\_name Sum of debt by country\_name **Build visual Filters** China Brazil Sum of debt South Asia = Least developed countri... Russian Federation IDA only Turkey Angola Armenia Azerbaijan osnia an... Botswana Brazil India Mexico Indonesia country\_name 0.1T 0.0T 0.2T 0.3T Sum of debt 7 6 ... Sum of debt by country name Values 0.3T Cameroon Sum of debt by country\_name Add data fields here Sum of debt 86.49.12.06.346.60 country\_name Sum of debt 285.79bn (9.28%) 10.35bn (0.34%) -(0.1%) Drill through 280.6... (9.1...) 21.49... (0.7%) Brazil Cross-report Off 26.7... (0....) South Asia 35.... (1...) On Keep all filters Least developed c... 42.... (...) Add drill-through fields here 45... (...) Russian Federation 62.... (2...) IDA only 212... (6....) 70.... (2....) Turkey 86.4... (2....) 191.2... (6.2...) 113.44... (3.68%) - 179.05bn (5.81%) country\_name 133.63bn (4.34%) Page 1

Page 1 of 1

− + 88% []





- International debt is money owed by countries to foreign creditors. It impacts economic policies and financial health. Forms include bonds, loans, and derivatives.
- This project aims to analyze international debt statistics to understand the global debt landscape, identify trends, and provide insights into the debt burden of various countries.
- The project will utilize publicly available data from reputable sources, such as the International Monetary Fund (IMF), the World Bank, and the Organization for Economic Co-operation and Development (OECD).





# Importance of analyzing debt statistics

- Analyzing international debt statistics is crucial for understanding financial stability and economic growth.
- It enables policymakers, researchers, and investors to assess risk levels, make informed decisions, and design effective strategies for debt management and economic recovery.

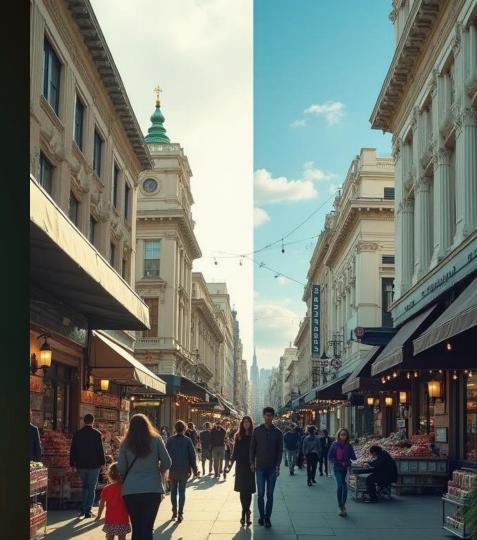
# Debt Types

### ☐ Public vs. private debt

Public debt owed by the government, it typically carries lower interest rate and is considered less risky whereas Private debt owed by individuals or businesses, generally it has higher interest rate and it is associated more risky. Public debt finances goods and services whereas private is used for personal or business expenses.

#### External vs. domestic debt

External debt owed to foreign lenders, denominated in foreign currency and usually subject to higher interest rates whereas Domestic Debt is owed to local citizens or institutions, denominated in local currency and tends to have lower interest rates along with reduced exchange rate risk.



# Some tools used to analyze international debt statistics

- 1. Debt-to-GDP Ratio: Compares a country's debt to its GDP.
- 2. Debt Service Ratio: Measures the percentage of exports used to service debt.
- 3. Current Account Balance: Tracks a country's trade balance and foreign investment.
- 4. Seaborn: Enhanced statistical visualizations with aesthetic themes.
- 5. Plotly: Interactive and animated visualizations. **Pandas**: Data manipulation and analysis.
- 6. Jupyter Notebook : Interactive development environment to run code and display results.
- 7. Power BI: For creating interactive dashboards and additional visualization options.
- 8. GitHub: Version control and project sharing.



# **Conclusions**

In summary, international debt statistics provide invaluable insights into the complexities of global finance.

With rising debt levels and various debt forms, continuous analysis is vital for informed policymaking and international cooperation.

Understanding these dynamics helps in addressing potential risks and enhancing economic stability globally.



### **Team Members:**

Arjun Kumar (23SCSE1010368) **Nitish Chaudhary** (23SCSE1011582) Vidisha Maurya (23SCSE1280005) **Anurag Sharma** (23SCSE1011488)



