DataCamp – Analyze International Debt Statistic

<u>DataCamp</u> is an online learning platform that helps students build data skills at their own pace. DataCamp courses include non-coding essentials like BI tools to data science and machine learning.

Overview

This data set is provided by DataCamp where they took it the data set from The World Bank. A country may also take debt to manage its economy. For example, infrastructure spending is one costly ingredient required for a country's citizens to lead comfortable lives. The World Bank is the organization that provides debt to countries.

We are going to analyze international debt data collected by The World Bank. The dataset contains information about the amount of debt (in USD) owed by developing countries across several categories, like **country_name**, **country_code**, **indicator_name**, **indicator_code**, and **debt**. We are going to find the answers to questions like:

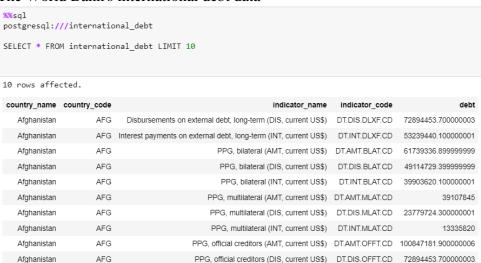
- What is the total amount of debt that is owed by the countries listed in the dataset?
- Which country owns the maximum amount of debt and what does that amount look like?
- What is the average amount of debt owed by countries across different debt indicators?

Tool

The tool that I use for this analysis is SQL that has been provided by DataCamp in their website.

Analyze

• The World Bank's international debt data



For the first let's we see the data in the table for the first ten rows. From the first ten rows, we can see the amount of debt owed by Afghanistan in the different debt indicators.

• Finding the number of Distinct Countries

```
%%sql
SELECT
   COUNT(DISTINCT country_name) AS total_distinct_countries
FROM international_debt;

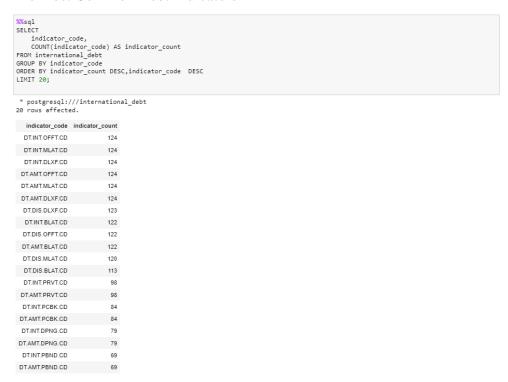
* postgresql:///international_debt
1 rows affected.

total_distinct_countries

124
```

We can see there are a total of 124 countries present on the table.

• The most Common Debt Indicators



As we can see there are a 25 debt indicators from this data set. And there are a total of six debt indicators in which all the countries listed in our dataset have taken debt. The indicator DT.AMT.DLXF.CD is also there in the list.

• Country with the Highest Debt

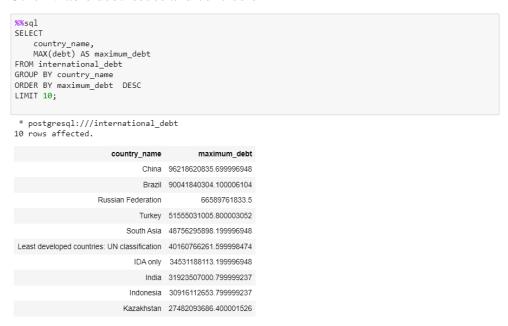
So, it was China with the highest debt in this data set.

• Average amount of Debt across Indicators

```
SELECT
    indicator_code AS debt_indicator,
    indicator_name,
AVG(debt) AS average_debt
FROM international_debt
GROUP BY debt_indicator, indicator_name
ORDER BY average_debt DESC
LIMIT 10:
* postgresql:///international_debt
10 rows affected.
   debt indicator
                                                                               indicator name
                                                                                                       average debt
 DT.AMT.DLXF.CD
                                   Principal repayments on external debt, long-term (AMT, current US$) 5904868401.499193612
DT.AMT.DPNG.CD Principal repayments on external debt, private nonquaranteed (PNG) (AMT, current US$) 5161194333.812658349
 DT.DIS.DLXF.CD
                                        Disbursements on external debt, long-term (DIS, current US$) 2152041216.890243888
 DT.DIS.OFFT.CD
                                                     PPG, official creditors (DIS, current US$) 1958983452.859836046
 DT AMT PRVT CD
                                                         PPG private creditors (AMT current US$) 1803694101 963265321
 DT.INT.DLXF.CD
                                      Interest payments on external debt, long-term (INT, current US$) 1644024067.650806481
  DT.DIS.BLAT.CD
                                                                PPG, bilateral (DIS, current US$) 1223139290.398230108
 DT.INT.DPNG.CD
                   Interest payments on external debt, private nonguaranteed (PNG) (INT, current US$) 1220410844.421518983
 DT.AMT.OFFT.CD
                                                          PPG, official creditors (AMT, current US$) 1191187963.083064523
DT.AMT.PBND.CD
                                                                 PPG, bonds (AMT, current US$) 1082623947.653623188
```

We can see that the indicator DT.AMT.DLXF.CD tops the chart of average debt. This category includes repayment of long term debts. Countries take on long-term debt to acquire immediate capital.

Other Viable debt issues and conclusion



It was the top 10 country with the most debt to The World Bank.