

It's not that we humans only take debts to manage our necessities. 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.

In this notebook, 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. 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?

Below is a snapshot of the database you will be working with:

country_name	country_code	indicator_name	indicator_code	debt
Afghanistan	AFG	"Disbursements on external debt, long-term (DIS, current US\$)"	DT.DIS.DLXF.CD	72894453.7
Afghanistan	AFG	"Interest payments on external debt, long-term (INT, current US\$)"	DT.INT.DLXF.CD	53239440.1
Afghanistan	AFG	"PPG, bilateral (AMT, current US\$)"	DT.AMT.BLAT.CD	61739336.9
Afghanistan	AFG	"PPG, bilateral (DIS, current US\$)"	DT.DIS.BLAT.CD	49114729.4
Afghanistan	AFG	"PPG, bilateral (INT, current US\$)"	DT.INT.BLAT.CD	39903620.1
Afghanistan	AFG	"PPG, multilateral (AMT, current US\$)"	DT.AMT.MLAT.CD	39107845
Afghanistan	AFG	"PPG, multilateral (DIS, current US\$)"	DT.DIS.MLAT.CD	23779724.3
Afghanistan	AFG	"PPG, multilateral (INT, current US\$)"	DT.INT.MLAT.CD	13335820
Afghanistan	AFG	"PPG, official creditors (AMT, current US\$)"	DT.AMT.OFFT.CD	100847181.9

country_name	country_code	indicator_name	indicator_code	debt
Afghanistan	AFG	"PPG, official creditors (DIS, current US\$)"	DT.DIS.OFFT.CD	72894453.7

You will execute SQL queries to answer six questions, as listed in the instructions.

--num_distinct_countries

SELECT

COUNT(DISTINCT country_name) AS total_distinct_countries
FROM international_debt;

total_distinct_countries = 124

--distinct_debt_indicators

SELECT

DISTINCT indicator_code AS distinct_debt_indicators
FROM international_debt;

distinct_debt_indicators. ** (FIRST 9)**

0. DT.DIS.MLAT.CD
1. DT.DIS.PROP.CD
2. DT.AMT.PCBK.CD
3. DT.INT.PCBK.CD
4. DT.DIS.PCBK.CD
5. DT.INT.DLXF.CD
6. DT.AMT.PBND.CD
7. DT.AMT.OFFT.CD
8. DT.INT.BLAT.CD
9. DT.AMT.BLAT.CD

--total_debt

SELECT ROUND(SUM(debt)/1000000,2) AS total_debt
FROM international_debt;

Total Debt 3079734.49

--highest_debt_country

SELECT

country_name,
SUM(debt) AS total_debt
FROM international_debt
GROUP BY country_name

```
ORDER BY total_debt DESC
LIMIT 1;
```

country_name: China
total_debt: 285793494734.2

```
--avg_debt_per_indicator
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;
```

debt_indicator	indicator_name	average_debt
0	DT.AMT.DLXF.CD	Principal repayments on external debt, long-term (AMT, current US\$)
1	DT.AMT.DPNG.CD	Principal repayments on external debt, private nonguaranteed (PNG) (AMT, current US\$)
2	DT.DIS.DLXF.CD	Disbursements on external debt, long-term (DIS, current US\$)
3	DT.DIS.OFFT.CD	PPG, official creditors (DIS, current US\$)
4	DT.AMT.PRVT.CD	PPG, private creditors (AMT, current US\$)
5	DT.INT.DLXF.CD	Interest payments on external debt, long-term (INT, current US\$)
6	DT.DIS.BLAT.CD	PPG, bilateral (DIS, current US\$)
7	DT.INT.DPNG.CD	Interest payments on external debt, private nonguaranteed (PNG) (INT, current US\$)
8	DT.AMT.OFFT.CD	PPG, official creditors (AMT, current US\$)
9	DT.AMT.PBND.CD	PPG, bonds (AMT, current US\$)

```
--highest_principal_repayment
SELECT
    country_name,
    indicator_name
FROM international_debt
WHERE debt = (SELECT MAX(debt)
              FROM international_debt
              WHERE indicator_code = 'DT.AMT.DLXF.CD');
```

country_name: China

indicator_name: Principal repayments on external debt, long-term (AMT, current US\$)