**Trade Analysis Project using Tableau**

1. **Topic**

* Analysis of Trade, Tariff, and Economic Indicators for Arabic Countries (1988–2021).

1. **Objective**

* Provide insights into export/import trends, duty-free trade, tariff impacts, and trade-related KPIs using Tableau.

1. **Datasets and Sources Used**
2. **Kaggle Dataset**: Covers detailed trade and tariff data for all countries from 1988 to 2021.

- Key Columns:

* + - Country Name (Kaggle), Year1
    - Export (US$ Thousand), Import (US$ Thousand)
    - Tariff Metrics: AHS Simple/Weighted Averages, Duty-Free Shares, MFN Rates
    - Revealed Comparative Advantage (RCA), World Growth (%), Country Growth (%)

1. **WDI Dataset** (World Development Indicators): Focuses on economic and social indicators for Arabic countries from 1988 to 2021.

- Key Columns:

* + - Country Name, Indicator Name, Year, Indicator Value

1. **Data Preparation**

* Filtered Data:
  + Kaggle Dataset: All countries.
  + WDI Dataset: Arabic countries only.
* Relationships Created in Tableau:
  + Joined datasets using Country Name and Year as common fields.
* Pivot years in WDI Dataset:
  + Making pivot column for year and the other for the indicator value.

1. **Questions**

* How has the export and import performance of Arabic countries changed over time?
* Which products or countries have the highest revealed comparative advantage (RCA)?
* What is the relationship between tariff rates (AHS) and trade volume?
* How do specific indicators (e.g., GDP, trade balance) correlate with export/import growth?
* Which countries have the largest duty-free trade, and how does it evolve?

1. **KPIs**

Trade Balance = Export - Import

Trade Volume = Export + Import

Tariff Dependency (%) = (AHS Dutiable Imports + MFN Dutiable Imports) / (Export + Import) \* 100

Growth Rate (%) = Country Growth (%) + World Growth (%)

1. **Dashboard Features Used**
   * + - “Update Country Parameter from Bar Chart” to filter Export/Import Trends Chart by click.
       - “Select Years Range” to filter all dashboard charts when specify years range.