International Trade and Development

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	View Dashboard: **Link**

Overview

The **United Nations International Trade and Development Dashboard** is a dynamic, interactive tool that showcases key development indicators across countries and over time. It was created using a Kaggle dataset covering the years **1990–2000**. The main purpose of this dashboard is to enable policymakers, journalists, analysts, and the general public to:

- **Analyze Country-Specific Indicators:**
  Select a country from a drop-down menu and view its **total trade amounts**, **average values for key indicators**, and **Human Development Index (HDI) rank**.

- **Compare Top and Bottom Performers:**
  The dashboard highlights the **top 5 and bottom 5** performers for each indicator, allowing for quick comparison across different countries.

- **Analyze Trends Over Time:**
  A **line chart** lets users filter by country and view total trade trends across years.

- **Identify Development Categories:**
  The **dynamic narrative and tooltips** provide context about a country's education, life expectancy, and income based on its HDI rank.

Customizable View:
Filters enable the user to select **specific years or indicators**, making it a flexible tool for policymakers and journalists who want to dig into the data in more depth.

Technical Summary (For a Tech-Savvy Audience)

To construct this interactive view, we transformed a **flat, raw CSV file** into a **structured schema** designed to maximize reuse and performance. The main transformations included:

- **Creating Dimension Categories:**
  The raw data was split into separate **dimensions for Country, Indicator Categories, and Year**.

- **Designing a Fact Table:**
  The main measures — such as total trade, education, income, life expectancy, and HDI — were kept in a central **Fact table**.

- **Clean-up and Transformation:**
  To resolve duplicates and inconsistent IDs (such as cases where a country appeared more than once), we applied **GROUP BY operations** and kept the maximum or average when appropriate.

- **DAX Measures:**
  We implemented numerous DAX measures to power the interactive elements from averaging indicators to retrieving top and bottom performers, and to generate the **dynamic narrative text** for the tooltips.

- **Page Tooltips and Visual Interaction:**
  We designed custom page tooltips and icon hover effects to provide additional context, guiding the user without overloading the main view.

- **Workarounds and Solutions:**
  During development, we addressed a range of technical issues from **filter context problems** to **duplicate country IDs**, and **interaction settings** to produce a fully functional, interactive, and clear final product.

Final Notes:

This dashboard lets policymakers, journalists, and analysts quickly assess and compare the development profile of different countries. It highlights not just raw numbers but also trends, context, and relationships, making it a powerful tool for **informed decision-making and policy analysis**.