Business Question and Visualization Report

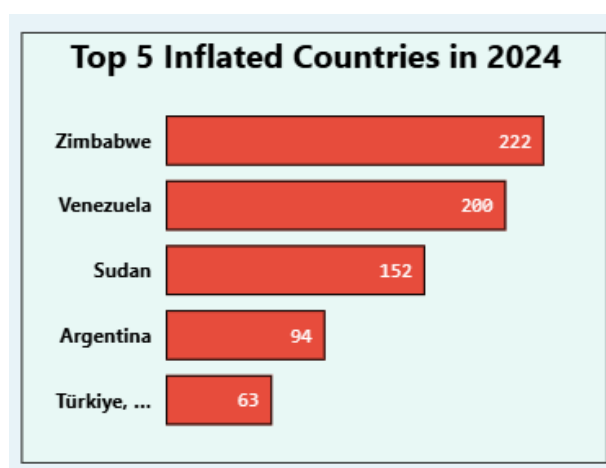| Date	29 July 2025
Project Name	Inflation Analysis
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting

Business Questions and Visualisation

The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Power BI. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualisation that provide insights.

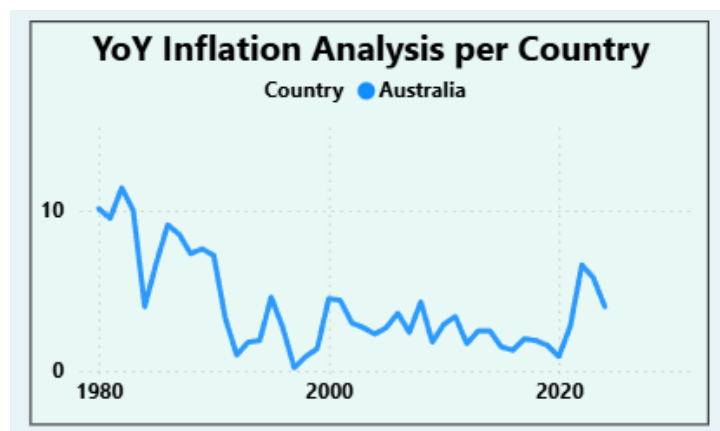## 1. What is the Top 5 Countries with Highest Inflation in 2024?

- **Visualization:** Bar chart showing inflation rates of the top 5 inflated countries in 2024.
- **Insight:** Identify countries with extreme economic instability
- **Screenshot:**

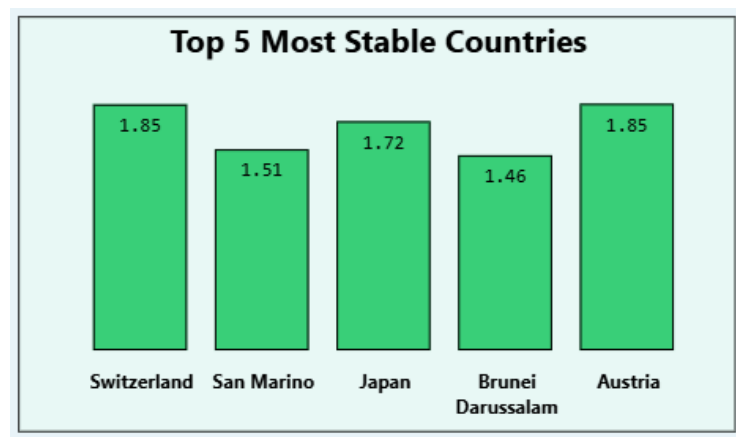## 2. How Has Year-over-Year Inflation Changed Per Country?

- **Visualization**: Line chart showing YoY inflation trends for selected countries.

- **Insight**: Understand inflation volatility and stability over time.

- **User Interaction**: Dropdown to select country.

3.Which Countries Have Had the Most Stable Inflation Rates?
- **Visualization:** Bar chart showing the lowest standard deviation in inflation rates.
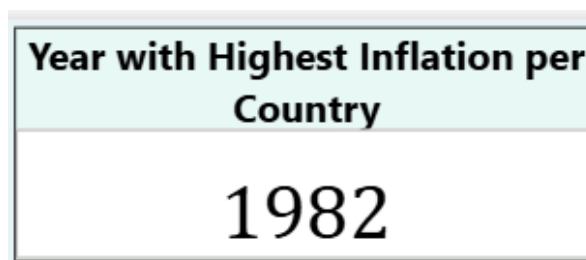- **Insight:** Identify economically stable countries.
- **Screenshot:**

4.How Does Inflation Vary by Region?
- **Visualization:** Interactive Map with slicers by year and region.
- **Insight:** Detect regional inflation patterns.
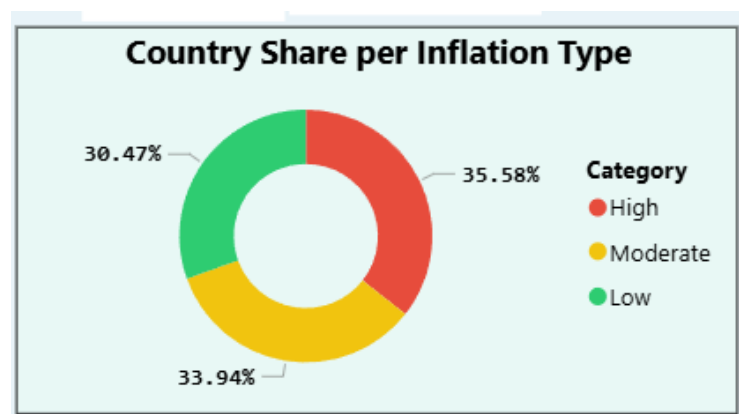- **Screenshot:**

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5. Which Year Had the Highest Inflation for Each Country?
- **Visualization:** Bar chart or matrix indicating peak inflation year per country.
- **Insight:** Spot economic crises or peaks across history.
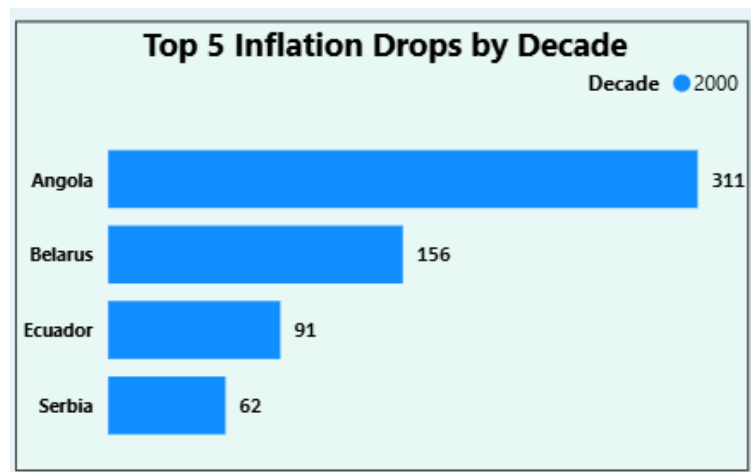- **User Interaction:** Select country to view details.
- **Screenshot:**

6. What is the Distribution of Countries by Inflation Type Over the Years?
- **Visualization**: Stacked bar chart showing country count in categories like low, moderate, high inflation.
- **Insight:** Observe how inflation types are spread across countries by year.
- **Screenshot:**

7. Which Countries Saw the Biggest Drop in Inflation Over the Decade?

- **Visualization**: Bar chart showing countries with most significant inflation declines from start to end of decade.
- **Insight:** Recognize successful monetary policies or recovery trends.
- **Screenshot:**

8. How Did Average Inflation Change Before and After COVID-19?
- **Visualization:** Bar chart comparing pre-COVID (2015–2019) vs. post-COVID (2020–2024) inflation averages.
- **Insight:** Evaluate economic impact of the pandemic globally based on selected country
- **Screenshot:**