Report

Date	24 September 2024
Team ID	**SWUID20250172189**
Project Name	**Power BI Inflation Analysis**
Maximum Marks	5 Marks

A report is a comprehensive document that provides a detailed and structured account of data analysis, findings, and insights. It is typically used for in-depth analysis, documentation, and communication of results. Reports are suitable for a diverse audience, including decision-makers, analysts, and stakeholders who need a comprehensive understanding of the data.

Designing a report in Power BI involves connecting to data sources, creating visualizations like charts and graphs, customizing their appearance and interactivity, organizing them logically on the canvas, formatting elements for consistency and clarity, and optionally creating dashboards for a summarized view. Throughout the process, it's essential to consider the audience's needs and ensure the report effectively communicates insights from the data. Finally, iterate based on feedback to continually improve the report's design and usefulness.

Observations drawn from reports in Power BI can provide valuable insights into business performance and trends.

1. Average Inflation Rate by Region

- The world map shows the **average inflation rate** across continents.

- Larger circles represent higher average inflation.

- **Africa and South America** show relatively larger inflation circles, indicating higher average inflation rates in these regions.

2. Inflation Rate by Country

- A **table** lists countries with their inflation rate in the year **1980** along with the **change in inflation**.

- For example:

  - **Tonga** had the highest rate listed here at **7.3%** in 1980.

  - Most countries show a decrease of **-0.38%**, suggesting a common decline in that year.

3. Sum of Inflation Rate by Country

- **Venezuela**, **Congo (Democratic Republic)**, and **Nicaragua** are the top 3 countries with the **highest total inflation**.

- Venezuela stands out with the **largest share** (over 50% in the pie chart and 92K in the bar chart).

4. Inflation by Category

- Inflation is divided into four categories:

  - **Hyperinflation**

  - **High Inflation**

  - **Moderate Inflation**

  - **Low Inflation**

- Most of the total inflation is in the **Hyperinflation** category, with over **0.31 million** in value.

- This indicates that a few countries are experiencing extreme inflation levels.

Key Insights

- **Venezuela** leads in total inflation rate, highlighting a severe economic situation.

- The **global distribution** of inflation varies, with **Africa and South America** showing higher average rates.

- A significant portion of inflation comes from countries facing **hyperinflation**.