

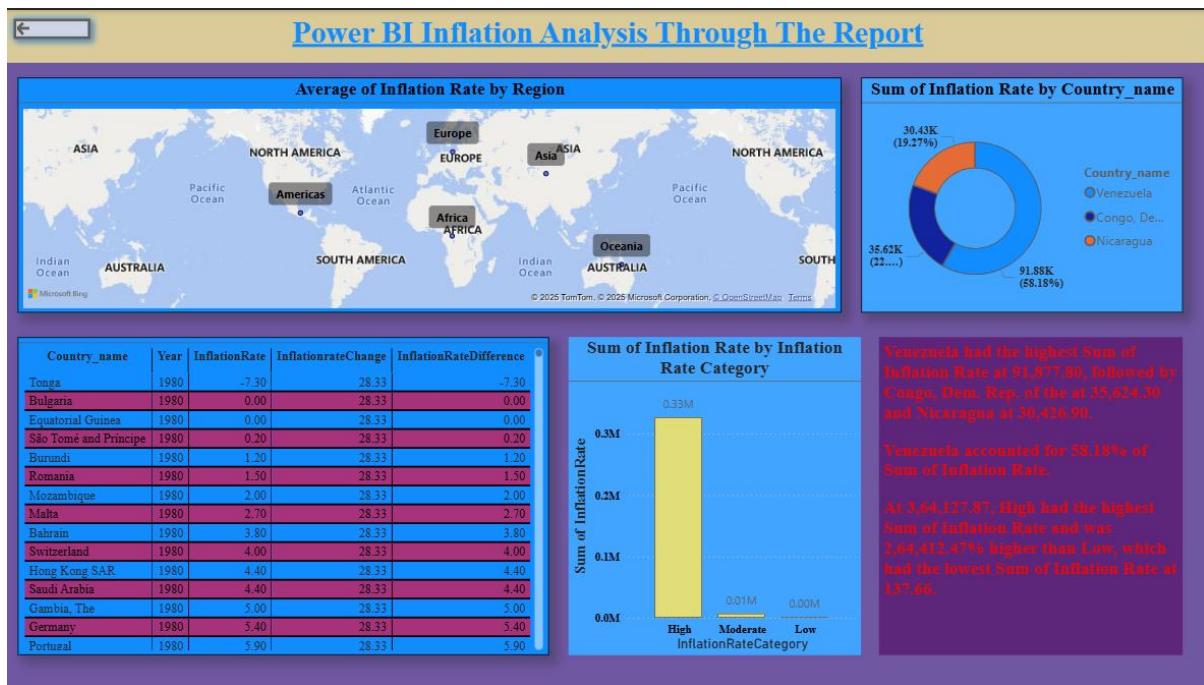
# Report

Date	12 December 2025
Team ID	SWUID20250189320
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
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. Inflation Trends Over Time:

Analyze how inflation rates change annually, identifying periods of hyperinflation, deflation, or stability, as well as long-term trends and cyclical patterns across multiple decades.

#### 2. Cross-Regional and Country Performance:

Compare inflation performance across different regions and countries to pinpoint which areas experience high, moderate, or low inflation, revealing regional disparities or standout economic performers.

#### 3. Category Distribution of Inflation Rates:

Segment inflation years into categories such as high, moderate, or low. This helps stakeholders understand the prevalence of economic stability or volatility in various contexts.

#### 4. Year-wise Comparison (Bar and Scatter Visuals):

1. Bar chart: Displays annual inflation figures, highlighting years with especially high or low inflation.
2. Scatter plot: Shows a close correlation between actual and adjusted inflation rates, validating data quality.

#### 5. Country Selection and Filtering:

1. The dashboard supports interactive filtering, with the current selection isolating India for focused insight.

#### Example:

#### Key Performance Indicators (KPIs) — India

- Average Inflation Rate: 7.50
- Maximum Inflation Rate: 13.50
- Region Count: 1
- Inflation Rate Change by Country: 45 changes across the analysis period

## Breakdown of Dashboard Visuals

- **Annual Inflation Trend in India:**
  - The “Sum of Inflation Rate by Year” line chart for India displays marked peaks and valleys, indicating years with both high and low inflation between 1980 and 2024.
  - Notable spikes over 12% are seen in certain periods, while several years report significantly lower inflation, sometimes below 5%.
- **Distribution of Inflation Rate Categories:**
  - The pie chart reveals that 16.18% of annual data points are categorized as “High” inflation.
  - The "Moderate" inflation category predominates, representing 83.82% of all years.
- **Inflation Rate Change Analysis:**
  - Over 45 yearly changes were tracked in the dashboard, demonstrating consistent monitoring of economic performance.

## Major Observations for India

- India's inflation has shown substantial fluctuation year-to-year, with significant peaks and dips clearly visible on the trend line.
- Most years are classified under moderate inflation, reinforcing economic stability for most of the analysed period.
- Very few years have exhibited extremely high inflation, confirming a relatively contained inflationary environment.
- India's inflation tracking capability is robust, as evidenced by the close alignment of actual and adjusted rates across time.