**Report**

|  |  |
| --- | --- |
| Date | 24 June 2025 |
| Project Name | Power BI Inflation Analysis – Journeying Through Global Economic Terrain |
| Maximum Marks | 5 Marks |

A **report** is a structured document that presents the findings and insights derived from data analysis. It provides a comprehensive view for stakeholders, policymakers, and analysts, enabling informed decisions based on historical trends and measurable indicators. In Power BI, report creation involves loading data, designing visuals, customizing formats, and organizing insights for clarity and depth. This report explores global inflation trends, variations by region, inflation spikes, and category-based summaries using dynamic, interactive visuals.

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

**1. Trends Over Time**:

**Global Inflation Patterns**

* **Decadal Shifts:** Inflation trends globally have shown volatility, particularly during global economic crises such as the 1990s inflation waves, 2008 recession, and COVID-19 pandemic.
* **Modern Spike:** The years **2017–2020** saw unprecedented inflation increases in several developing countries, with hyperinflation in nations like **Venezuela** and **Zimbabwe**.
* **Long-Term Trends:** While developed nations have maintained moderate inflation, many **emerging economies** faced fluctuations driven by unstable currency regimes, political shifts, or trade imbalances.

**2. Performance Comparisons**:

**Countries & Regions**

 **Top Inflation Countries:**  
Venezuela and Congo show **extremely high adjusted inflation**, with values exceeding 1,000 units in some years.  
Other high-inflation countries include **Nicaragua, Bolivia, Angola**, and **Zimbabwe**.

 **Continental Trends:**

* **Africa:** Mixed patterns. Countries like Egypt and Nigeria showed moderate inflation with occasional spikes.
* **Asia:** Stable in developed parts; **South Asia** experienced volatile inflation (e.g., Sri Lanka).
* **Americas:** Both North and South America contain extremes—Canada (low), Venezuela (hyperinflation).
* **Europe:** Majority of countries show **stable and low inflation** with exceptions like Ukraine during conflict periods.

**3. Category-Wise Distribution: Inflation Rate Segments**:

Inflation data was categorized into three bands:

* **Low:** < 5% (most developed economies)
* **Moderate:** 5–25% (transitioning economies)
* **High:** > 25% (mostly unstable or post-crisis economies)
* **Donut Chart Observation**  
  Majority of the dataset (~97.7%) lies in the **moderate inflation** range, indicating global efforts toward price stability despite economic pressures.

**4. Visual KPIs and Highlights:**

| **KPI** | **Observation** |
| --- | --- |
| Average Global Inflation | 42.07 |
| Maximum Inflation (Country-Level) | 65.37K (Venezuela) |
| Most Inflation-Stable Countries | Japan, Switzerland, Germany |
| Year with Highest Spike | 2018 |
| Region with Highest Volatility | Africa & Latin America |

**5. Strategic Insights & Recommendations:**

|  |  |
| --- | --- |
| **Observation** | **Insight** |
| High Volatility in Developing Nations | Need for robust monetary and fiscal policy coordination |
| Regional Inflation Disparity | Strategy segmentation should be region- and context-specific |
| Inflation Hotspots | Countries like Venezuela require global economic aid and inflation control frameworks |
| Moderate Band Dominance | A positive sign showing most countries aim for inflation stabilization |

**Recommendations for Decision Makers:**

1. **Monetary Stabilization:**Support high-volatility countries with policy consultancy (e.g., inflation targeting frameworks, FX controls).
2. **Data-Driven Governance:**Use dashboards to simulate and monitor inflation projections under different economic scenarios.
3. **Support for Emerging Economies:**Deploy central bank reserves, aid packages, and currency swaps to prevent hyperinflation in fragile economies.
4. **Standardized Reporting:**International institutions should adopt global CPI dashboards using tools like Power BI for better surveillance.