

**Project Development Phase**  
**Model Performance Test**

Date	09 March 2025
Team ID	PNT2025TMID00093
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	<p>Tables Taken:</p> <ul style="list-style-type: none"><li>• Global Inflation Data Table:<ul style="list-style-type: none"><li>- Columns: 10</li><li>- Rows: 1500</li></ul></li><li>• Country Inflation Analysis Table:<ul style="list-style-type: none"><li>- Columns: 15</li><li>- Rows: 800</li></ul></li></ul>
2.	Data Preprocessing	<ul style="list-style-type: none"><li>• Error Handling: Replaced missing or erroneous inflation rates with a default value (0 or mean).</li><li>• Data Types: Changed data types for columns like inflation rate, GDP growth, unemployment rate, etc., in both tables.</li></ul>
3.	Utilization of Data Filters	<p>Filters Used:-</p> <ul style="list-style-type: none"><li>• Top N: Top 5 countries by inflation in a clustered bar chart.</li><li>• Date Range: Filter for Yearly inflation rate trends.</li></ul>

4.	DAX Queries Used	<p>Here are some relevant DAX queries for inflation data analysis:</p> <ul style="list-style-type: none"> <li>• Average_Inflation = AVERAGE('Global Inflation Data'[Inflation Rate])</li> <li>• Total_Unemployment = SUM('Country Inflation Analysis'[Unemployment Rate])</li> <li>• YoY_Inflation_Change = VAR PrevYear = CALCULATE(AVERAGE('Global Inflation Data'[Inflation Rate]),  PREVIOUSYEAR('Global Inflation Data'[Year]))  RETURN AVERAGE('Global Inflation Data'[Inflation Rate]) – PrevYear</li> <li>• GDP_Per_1000 = ([GDP] / 1000) * [Inflation Rate] * 1000</li> </ul>
5.	Dashboard design	<ul style="list-style-type: none"> <li>• Number of Visualizations / Graphs: <ul style="list-style-type: none"> <li>- Card – Sum of Global GDP</li> <li>- Card – Average Global Inflation Rate</li> <li>- Line Chart – Top 5 Countries by Annual Inflation Rate</li> <li>- Clustered Bar Chart – Yearly Inflation Rate by Region</li> <li>- Map – Global Inflation Rates by Country</li> <li>- Slicer – Year and Country for deeper analysis.</li> </ul> </li> </ul>
6	Report Design	<ul style="list-style-type: none"> <li>• Visualizations / Graphs: <ul style="list-style-type: none"> <li>- Card – Sum of Global Inflation</li> <li>- Card – Average Unemployment Rate</li> <li>- Line Chart – Inflation Trends Over Time</li> </ul> </li> </ul>

		<ul style="list-style-type: none"><li>- Clustered Bar Chart – Inflation vs Unemployment Rate</li><li>- Map – Country-wise Inflation Distribution</li><li>- Slicer – Year and Country</li></ul>
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