## Project Development Phase Model Performance Test

Date	25 March 2025
Team ID	PNT2025TMID06686
Project Name	Global Food Production Trends and Analysis:A Comprehensive Study from 1961 to 2023 Using Power Bl
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	24 column and 11912 Rows.
2.	Data Preprocessing	File Home Help Table tools Column tools  Name Rice Production ( \$% Format Whole number \$\$ \$ \$ 9 \$ 0 \$ \$ Data category Uncategorized \$\$ Structure \$\$ Formatting \$\$ Properties
3.	Utilization of Data Filters	We had shorted the data by giving the data type text, whole no. and the decimal no.

4.	DAX Queries Used	Categorizing Regional
٦.	DAX Queries oseu	
		Production Contribution
		Regional_Production_Categor
		y = SWITCH(
		TRUE(),
		[Region] IN {"Europe",
		"Asia"}, "High Contribution",
		[Region] IN {"North
		America", "South America"},
		"Moderate Contribution",
		[Region] IN {"Africa",
		"Oceania"}, "Low
		Contribution",
		"Unknown"

```
-- Identifying High-Production
Top_Fruit_Production =
SWITCH(
  TRUE(),
  [Fruit] = "Grapes", "Highest
Production - 43 Billion
Tonnes",
  [Fruit] = "Apples", "High
Production",
 [Fruit] = "Bananas",
"Moderate Production",
  [Fruit] = "Oranges",
"Significant Production",
  "Other Fruits"
)
-- Maize Production Growth
Trend (Post-1980s)
Maize_Growth_Trend =
SWITCH(
  TRUE(),
  [Year] < 1980, "Stable/Low
Growth",
  [Year] >= 1980 && [Year] <
 2000, "Moderate Growth",
[Year] >= 2000, "Consistent
High Growth"
)
-- Total Food Production
Category Based on Volume
Food_Production_Volume =
SWITCH(
  TRUE(),
  [Production_Tonnes] > 40,
"Very High Production",
  [Production Tonnes] > 20,
"High Production",
  [Production Tonnes] > 10,
"Moderate Production",
  "Low Production"
)
-- Market Impact Based on
High-Yield Fruits
Market_Impact = SWITCH(
  TRUE(),
  [Fruit] = "Grapes",
"Abundant Supply - Potential
Price Drop",
```

[Fruit] IN {"Apples", "Bananas", "Oranges"}, "Stable Market - Consistent Demand", "Other Fruits", "Varied Impact" ) -- Strategic Decision-Making Category for ABC Company Strategic\_Insights = SWITCH( TRUE(), [Region] IN {"Europe", "Asia"} && [Production\_Tonnes] > 20, "Key Market for Expansion", [Region] IN {"North America", "South America"} && [Production\_Tonnes] > 10, "Emerging Market - Growth Potential", [Region] IN {"Africa", "Oceania"} && [Production\_Tonnes] < 10, "Developing Market - Limited Influence", "Unknown Strategy" 5. Dashboard design

281800... 2,68,56,...

6	Report Design	Report  The total rice production globally from 1961 to 2023 is 289 billion transes.  The total wheat production globally from 1961 to 2023 is 280 billion transes.  The total expression globally from 1961 to 2023 is 2 billion transes.  The total expression globally from 1961 to 2023 is 2 billion transes.  The total expression globally from 1961 to 2023 is 2 billion transes.  Wheat, make, and fasi lead in the production of green coffee, with Africa being the top produce followed by America.  Wheat, make, and rice production have all shown a sleady increase from 1961 to 2023, with wheat production showing the most significant for production showing the most significant for production showing the top production showing the special production solutions.  Apples seconds, bransars, and congress are produced in verying quantities by different entities, with countries like Europe and Asia showing significant production with the years, with notable jumps around the late 1900s and continuing into the 2000s.  Graves have the highest total production of 3 billion transes, followed by apples (8 billion transes), and cranges (26 billion transes).
		tonnes), and dranges (26 billion tonnes).