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 BI	
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 \$ \	
3.	Utilization of Data Filters	We had shorted the data by giving the data type text, whole no. and the decimal no.	

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4.	DAX Queries Used	Categorizing Regional
		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
Fruits
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" Dashboard design 281800... 2,68,56,...

6	Report Design	
		The total rice production globally from 1961 to 2023 is 299 billion tornes. The total wheel production globally from 1961 to 2023 is 282 billion tornes. The total is approduction globally from 1961 to 2023 is 282 billion tornes. The total is approduction globally from 1961 to 2023 is 2 billion tornes. Africe, America, and Asia lead in the production of green coffee, with Africa being the top producer followed by America. Wheel, mater, and rice production have all short as steady increase from 1961 to 2023, with wheel production showing the most significant rice over the years. Apples, avoacions, brannass, and caranges are produced in valying quantities by different entities, with countries like Europe and Asia showing spinificant production volumes. Maize production has consistently increased over the years, with nobable jumps around the bile 1960s and continuing into the 2006s. Grapes have the rightest total production of 43 billion tornes, followed by applies (36 billion tornes), barranas (32 billion tornes), and crampes (26 billion tornes).