Project Development Phase
Model Performance Test

Date	8 March 2025
Team ID	PNT2025TMID01422
Project Name	Global Food Production Trends and Analysis
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	No. Of Rows – 11912 No. Of Columns - 25
2.	Data Preprocessing	Fixed column name gaps, Converted numerical columns to Whole Number, Adjusted outliers
3.	Utilization of Data Filters	Year Slicer, Country Slicer

4.	DAX Queries Used	Country Rank =
		RANKX(ALL('world_food_production_cleaned'[Entity]),
		[Total Production], DESC, DENSE)
		
		Production Share % =
		DIVIDE(
		[Total Production],
		CALCULATE([Total Production],
		ALL('world_food_production_cleaned'[Entity])),
		0
		) * 100
		
		Top Crop =
		VAR CropList = {
		"Apples Production (tonnes)",
		"Bananas Production (tonnes)",
		"Rice Production (tonnes)",
		"Wheat Production (tonnes)"
		}
		
		VAR MaxCrop =
		MAXX(

```
      ADDCOLUMNS(
        SUMMARIZE('world_food_production_cleaned',
'world_food_production_cleaned'[Entity]),
        "Production",
        VAR CropValues = {
          SUM('world_food_production_cleaned'[Apples
Production (tonnes)]),
          SUM('world_food_production_cleaned'[Bananas
Production (tonnes)]),
          SUM('world_food_production_cleaned'[Rice
Production (tonnes)]),
          SUM('world_food_production_cleaned'[Wheat
Production (tonnes)])
        }
        RETURN MAXX(CropValues, [Value])
      ),
      [Production]
  )

RETURN MaxCrop

Total Production =
SUM('world_food_production_cleaned'[Apples Production
(tonnes)]) +
SUM('world_food_production_cleaned'[Avocados
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Bananas
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Cocoa beans
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Coffee, green
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Grapes Production
(tonnes)]) +
SUM('world_food_production_cleaned'[Maize Production
(tonnes)]) +
SUM('world_food_production_cleaned'[Meat, chicken
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Oranges
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Palm oil Production
(tonnes)]) +
SUM('world_food_production_cleaned'[Peas, dry
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Potatoes
Production (tonnes)]) +
SUM('world_food_production_cleaned'[Rice Production
(tonnes)]) +
```

		SUM('world_food_production_cleaned'[Rye Production (tonnes)]) + SUM('world_food_production_cleaned'[Soybeans Production (tonnes)]) + SUM('world_food_production_cleaned'[Sugar cane Production (tonnes)]) + SUM('world_food_production_cleaned'[Sunflower seed Production (tonnes)]) + SUM('world_food_production_cleaned'[Sweet potatoes Production (tonnes)]) + SUM('world_food_production_cleaned'[Tea Production (tonnes)]) + SUM('world_food_production_cleaned'[Tomatoes Production (tonnes)]) + SUM('world_food_production_cleaned'[Wheat Production (tonnes)]) + SUM('world_food_production_cleaned'[Yams Production (tonnes)])
5.	Dashboard design	No of Visualizations -8 (1) Slicer (2) Card (3) Guage Chart (4) Bar Chart (5) Area Chart (6) Ribbon Chart (7) Donut Chart (8) Text box
6	Report Design	No of Visualizations – 7 (1) Slicer (2) Card (3) Pie Chart (4) Donut Chart (5) Table (6) Line Chart (7) Text box