Project Development Phase
Model Performance Test

Date	12 March 2025
Team ID	PNT2025TMID02813
Project Name	Global Food Production Trends and Analysis AComprehensive Study from 1961 to2023 Using Power BI
Maximum Marks	4

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