Project Development Phase Model Performance Test

Date	12 March 2025	
Team ID	PNT2025TMID02739	
Project Name	Global Food Production Trends and Analysis AComprehensive Study from 1961 to 2023 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

```
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)]),
        {\sf 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)]) +
{\sf 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 (tonnes)]) +	Production

		SUM('world_food_production_cleaned'[Rye
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