

**Project Development Phase**  
**Model Performance Test**

Date	9 March 2025
Team ID	PNT2025TMID02626
Project Name	Global Food Production Trend and Analysis A Cprehensive 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	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	<p>Country Rank =  RANKX(ALL('world_food_production_cleaned'[Entity]),  [Total Production], DESC, DENSE)</p> <p>Production Share % =  DIVIDE(  [Total Production],  CALCULATE([Total Production],  ALL('world_food_production_cleaned'[Entity])),  0  ) * 100</p> <p>Top Crop =  VAR CropList = {  "Apples Production (tonnes)",  "Bananas Production (tonnes)",  "Rice Production (tonnes)",  "Wheat Production (tonnes)"  }    VAR MaxCrop =  MAXX(</p>
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		<pre> 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)]) + </pre>
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		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)]) )
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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