Project Development Phase Model Performance Test

Date	24 March 2025	
Team ID	PNT2025TMID07288	
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 the model performance testing template.

S.No.	Parameter	Screenshot / Values			
1.	Data Rendered	24 Column and 1912 Rows			
2.	Data Preprocessing	File Home Help Table tools Column tools Name Rice Production (Sy Format Whole number Structure Structure Structure Structure Sy Format Whole number Sy Format Whole number Structure Sum Data category Uncategorized Properties New Column ations			
3.	Utilization of Data Filters	Data filters in the project allow users to analyze food production trends by time, region, crop type, production metrics, climate factors, sustainability indicators, data sources, and custom multi-filter combinations for precise insights.			
4.	DAX Queries Used	1.EVALUATE TOPN(100, 'world food production') (2.Participation_Product = 5) SWITCH(

```
TRUE(),
    SELECTEDVALUE('Operations_FT'[Operation]) =
"Exports",
        DIVIDE(
            [Total Export Value_Per_Product],
            CALCULATE(
                [Total Export Value_Per_Product],
                ALLSELECTED('Operations_FT'[Product]
        ),
    SELECTEDVALUE('Operations_FT'[Operation]) =
"Imports",
        DIVIDE(
            [Total Import Value_Per_Product],
            CALCULATE(
                [Total Import Value_Per_Product],
        ALLSELECTED('Operations_FT'[Product])
            )
        ),
```

```
DIVIDE(
         [Total Export Value_Per_Product] + [Total Import
 Value_Per_Product],
         CALCULATE(
             SUM(`Operations\_FT'[Value]),
             ALLSELECTED('Operations_FT'[Product])
         )
     )
 )
where
 Total Export Value_Per_Product =
 CALCULATE(
     SUM('Operations_FT'[Value]),
                                           (6)
     'Operations_FT'[Operation] =
 "Exports"
 )
And:
 Total Import Value_Per_Product =
 CALCULATE(
                                           (7)
     SUM('Operations_FT'[Value]),
```

