Project Development Phase Model Performance Test

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| Date | 25 March 2025 |
| Team ID | PNT2025TMID06677 |
| 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 model performance testing template.

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| **S.No.** | **Parameter** | **Screenshot / Values** |
| 1. | Data Rendered | 24 column and 11912 Rows. |
| 2. | Data Preprocessing |  |
| 3. | Utilization of Data Filters | We had shorted the data by giving the data type text, whole no. and the decimal no. |
| 4. | DAX Queries Used | -- Categorizing Regional Production Contribution Regional\_Production\_Categor y = SWITCH(  TRUE(),  [Region] IN {"Europe", "Asia"}, "High Contribution",  [Region] IN {"North America", "South America"}, "Moderate Contribution",  [Region] IN {"Africa", "Oceania"}, "Low Contribution",  "Unknown"  ) |

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|  |  | -- Identifying High-Production Fruits  Top\_Fruit\_Production = SWITCH(  TRUE(),  [Fruit] = "Grapes", "Highest Production - 43 Billion Tonnes",  [Fruit] = "Apples", "High Production",  [Fruit] = "Bananas", "Moderate Production", [Fruit] = "Oranges", "Significant Production",  "Other Fruits"  )  -- Maize Production Growth Trend (Post-1980s) Maize\_Growth\_Trend = SWITCH(  TRUE(),  [Year] < 1980, "Stable/Low Growth",  [Year] >= 1980 && [Year] < 2000, "Moderate Growth",  [Year] >= 2000, "Consistent High Growth"  )  -- Total Food Production Category Based on Volume Food\_Production\_Volume = SWITCH(  TRUE(),  [Production\_Tonnes] > 40, "Very High Production",  [Production\_Tonnes] > 20, "High Production",  [Production\_Tonnes] > 10, "Moderate Production",  "Low Production"  )  -- Market Impact Based on High-Yield Fruits Market\_Impact = SWITCH(  TRUE(),  [Fruit] = "Grapes",  "Abundant Supply - Potential Price Drop", |

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|  |  | [Fruit] IN {"Apples", "Bananas", "Oranges"}, "Stable Market - Consistent Demand",  "Other Fruits", "Varied Impact"  )  -- Strategic Decision-Making Category for ABC Company Strategic\_Insights = SWITCH(  TRUE(),  [Region] IN {"Europe", "Asia"} && [Production\_Tonnes] > 20, "Key Market for Expansion",  [Region] IN {"North America", "South America"} && [Production\_Tonnes] > 10, "Emerging Market - Growth Potential",  [Region] IN {"Africa", "Oceania"} && [Production\_Tonnes] < 10, "Developing Market - Limited Influence",  "Unknown Strategy"  ) |
| 5. | Dashboard design |  |

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| 6 | Report Design |  |