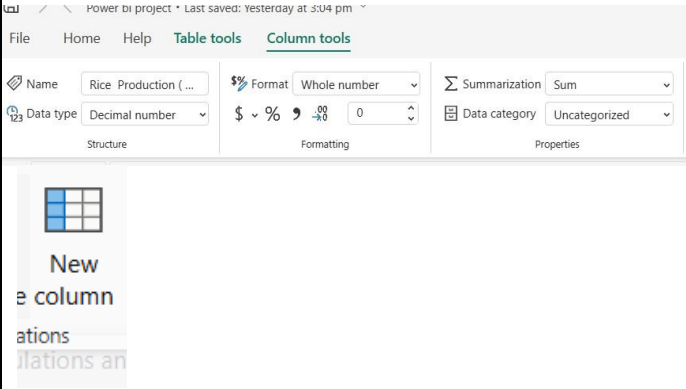


Project Development Phase Model Performance Test

Date	25 March 2025
Team ID	PNT2025TMID06795
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.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	24 column and 11912 Rows.
2.	Data Preprocessing	 <p>The screenshot shows the Power BI Column Tools ribbon. The 'Name' field is 'Rice Production (...)'. The 'Data type' is set to 'Decimal number'. The 'Format' is set to 'Whole number'. The 'Summarization' is set to 'Sum'. The 'Data category' is set to 'Uncategorized'. Below the ribbon, there is a 'New' button and a 'column' button.</p>
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	<pre>-- 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")</pre>

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

