


Project Development Phase

Model Performance Test

Date	7 March 2025
Team ID	PNT2025TMID00740
Project Name	Global Food Production and Trend Analysis
Maximum Marks	-

Model Performance Testing:

<u>S.No.</u>	<u>Parameter</u>	<u>Screenshot / Values</u>
1.	Data Rendered	<p>Data is successfully imported, tables are visible, all required columns are present, and visuals correctly display aggregated values.</p> 
2.	Data Preprocessing	Changed the decimal values to whole numbers
3.	Utilization of Data Filters	Filtered Top Production Results whether it is by Year or Entity
4.	DAX Queries Used	<p>Creation of new columns:</p> <pre>1. Beverages Production = 'world food production'[Tea Production (tonnes)]+'world food production'[Coffee, green Production (tonnes)] 2. Cash Crop Production = 'world food production'[Cocoa beans Production (tonnes)]+'world food production'[Sugar cane Production (tonnes)] 3. Fruit Production = 'world food production'[Oranges Production (tonnes)]+'world food production'[Grapes Production (tonnes)]+'world food production'[Bananas Production (tonnes)]+'world food production'[Apples Production (tonnes)]+'world food production'[Avocados Production (tonnes)]</pre>

		<pre>4. Grains Production = 'world food production'[Maize Production (tonnes)] + 'world food production'[Rice Production (tonnes)] + 'world food production'[Wheat Production (tonnes)] + 'world food production'[Rye Production (tonnes)] 5. Pulses Production = 'world food production'[Soybeans Production (tonnes)]+'world food production'[Peas, dry Production (tonnes)] 6. Vegetable Production = 'world food production'[Tomatoes Production (tonnes)]+'world food production'[Sweet potatoes Production (tonnes)]+'world food production'[Potatoes Production (tonnes)]+'world food production'[Yams Production (tonnes)]</pre>
		<p>Creation of New Tables:</p> <pre>1. total_production_per_year = SUMMARIZE('world food production', 'world food production'[Year], "Total Production", SUMX('world food production', 'world food production'[Maize Production (tonnes)] + 'world food production'[Rice Production (tonnes)] + 'world food production'[Yams Production (tonnes)] + 'world food production'[Wheat Production (tonnes)] + 'world food production'[Tomatoes Production (tonnes)] + 'world food production'[Tea Production (tonnes)] + 'world food production'[Sweet potatoes Production (tonnes)] + 'world food production'[Sunflower seed Production (tonnes)] + 'world food production'[Sugar Cane Production (tonnes)] + 'world food production'[Soybeans Production (tonnes)] + 'world food production'[Rye Production (tonnes)] + 'world food production'[Potatoes Production (tonnes)] + 'world food production'[Oranges Production (tonnes)] + 'world food production'[Peas, dry Production (tonnes)] + 'world food production'[Palm oil Production (tonnes)] + 'world food production'[Grapes Production (tonnes)] +</pre>

		<pre>'world food production'[Coffee, green Production (tonnes)] + 'world food production'[Cocoa Beans Production (tonnes)] + 'world food production'[Meat, chicken Production (tonnes)] + 'world food production'[Bananas Production (tonnes)] + 'world food production'[Avocados Production (tonnes)] + 'world food production'[Apples Production (tonnes)]))</pre> <p>2. category_production_per_year = SUMMARIZE('world food production', 'world food production'[Year], "Grains Production", SUM('world food production'[Grains Production]), "Pulses Production", SUM('world food production'[Pulses Production]), "Cash Crops Production", SUM('world food production'[Cash Crop Production]), "Vegetables Production", SUM('world food production'[Vegetable Production]), "Fruit Production", SUM('world food production'[Fruit Production]), "Beverages Production", SUM('world food production'[Beverages Production]), "Meat Production", SUM('world food production'[Meat, chicken Production (tonnes)]))</p>
5.	Dashboard design	<p>12 2 slicers, 6 cards, 1 line chart, 1 column chart, 1 donut chart, 1 funnel chart</p> 
6	Report Design	<p>9 2 slicers, 6 cards and 1 line chart with a brief description of the report</p>

