## Project Development Phase Model Performance Test

Date	10 March 2025
Team ID	PNT2025TMID02625
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.

	Parameter	Screenshot / Values		
· 1.	Data Rendered	The dataset has <b>11,912 entries</b> with <b>24 columns</b> .		
		Columns include:		
		<ul> <li>Entity (Country or region)</li> </ul>		
		• Year (1961 to 2023)		
		,		
		<ul> <li>Production quantities for various crops and</li> </ul>		
		food products, such as:		
		·		
		<ul> <li>Maize, Rice, Wheat, Tomatoes, Tea,</li> </ul>		
		Sweet potatoes, Sunflower seeds o		
		•		
		Sugar cane, Soybeans, Rye, Potatoe		
		Oranges, Peas ○ Palm oil,		
		Grapes, Coffee, Cocoa beans,		
		• • • • • • • • • • • • • • • • • • • •		
		Chicken meat, Bananas, Avocados,		
		Apples		
		After transforming data it only consists 4 columns.		
		After transforming data it only consists 4 columns.		
2	Data Proprocessing			
2.	Data Preprocessing	File Home Help Table tools		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New		
2.	Data Preprocessing	File Home Help Table tools		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  New Quick New New measure measure column table  Structure  Relationships		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New New Mew Calculations  Structure  Structure  Relationships  Calculations  Structure  Food Category  Production Value  Service  Service  Food Category  Production Value  Source  S		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Marriage relationships  Structure  Structure  Food Category  Serrois  Serrois  Serrois  2014 Peas, dry Production (tonnes)  25483-296  Slovakia 2014 Peas, dry Production (tonnes)  2589237.72		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Manage relationships Relationships Relationships  Structure  Structure  Food Category Sierra Leone  2014  Peas, dry Production (tonnes)  2015  Slovakia  2014  Peas, dry Production (tonnes)  2015  Slovakia  2014  Peas, dry Production (tonnes)  2015  Slovakia  2016  Peas, dry Production (tonnes)  2017  Peas, dry Production (tonnes)  2018  3000  3000		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New New Rew Tectionships Relationships Relationship		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  Name Data  New Quick New New Measure column table  Structure  Structure  Food Category  Peas, dry Production (tonnes)  Sicra Leone  2014 Peas, dry Production (tonnes)  2548329237.72  Slovenia  Somalia Island Developin  2014 Peas, dry Production (tonnes)  Somalia South Africa  2014 Peas, dry Production (tonnes)  109722  Somalia  2014 Peas, dry Production (tonnes)  109722  Somalia  2014 Peas, dry Production (tonnes)  109722  Peas, dry Production (tonnes)  101492  Peas, dry Production (tonnes)		
2.	Data Preprocessing	File Home Help Table tools    Name Data		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  New Quick New New Mew Measure measure column table  Relationships Seroia Sievra Leone 2014 Peas, dry Production (tonnes) 25483-926 Sievralia 2014 Peas, dry Production (tonnes) 259237.72  Sievralia 2014 Peas, dry Production (tonnes) 3000 Small Island Developin 2014 Peas, dry Production (tonnes) 3000 Small Island Developin 2014 Peas, dry Production (tonnes) 41040 South Africa		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Manage relationships Structure  Structure  Structure  Structure  New Quick New New Mew measure measure column table Calculations Sierra Leone 2014 Peas, dy Production (tonnes) Sievakia 2014 Peas, dy Production (tonnes) 25482-326 Sievakia 2014 Peas, dy Production (tonnes) 2589237.72 Somalia 2014 Peas, dy Production (tonnes) 3000 Small Island Developin 2014 Peas, dy Production (tonnes) 1972.2 Somblia 2014 Peas, dy Production (tonnes) 101482 South America (FAO) 2014 Peas, dy Production (tonnes) 1944.8 South America (FAO) 2014 Peas, dy Production (tonnes) 1944.8 South Korea 2014 Peas, dy Production (tonnes) 1943.9 South Korea 2014 Peas, dy Production (tonnes) 1136.8 South Sudan 2014 Peas, dy Production (tonnes) 1175511.8		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New New Relationships  Structure  Structure  Food Category  Fo		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New New Relationships Relationships Structure  Fentity Year Fend Category Production Color Society Society Feas, dry Production (tonnes) 25488-296 Sicrea Leone 2014 Peas, dry Production (tonnes) 25498-296 Sicrea Leone 2014 Peas, dry Production (tonnes) 2659237.72 Sicrea Sicrea Relationships Society Feas, dry Production (tonnes) 169722 Somalia 2014 Peas, dry Production (tonnes) 169722 South Africa 2014 Peas, dry Production (tonnes) 101482 South America (FAO) 2014 Peas, dry Production (tonnes) 101482 South America (FAO) 2014 Peas, dry Production (tonnes) 1136.8 South Korea 2014 Peas, dry Production (tonnes) 1136.8 South Sudan 2014 Peas, dry Production (tonnes) 1136.8 South Sudan 2014 Peas, dry Production (tonnes) 1176511.8 South-eastern Asia (FA 2014 Peas, dry Production (tonnes) 1176511.8 South-eastern Asia (FA 2014 Peas, dry Production (tonnes) 1176511.8 South-eastern Africa (FAO) 2014 Peas, dry Production (tonnes) 179057.172 Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 179057.172 Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 3982.4		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Marriage relationships Structure  Food Category Serra Leone Slovakia Slovakia Slovakia Slovakia Slovakia South America South America South America South America South America South America South		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Marriage relationships Structure  Food Category Serra Leone Slovakia Slovakia Slovakia Slovakia Slovakia South America South America South America South America South America South America South		
2.	Data Preprocessing	File Home Help Table tools  Name Data    Structure   Name Data   Name Point   Name		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  Name Data  Name Data  Name Data  New Quick New New Measure column table  Calculations  New Culck New Measure column table  Calculations  New Culck New New Measure Column table  Calculations  Sierra Leone 2014 Peas, dry Production (tonnes) 25493-326  Slovakia 2014 Peas, dry Production (tonnes) 25493-3276  Slovakia 2014 Peas, dry Production (tonnes) 3000  Small Island Developin 2014 Peas, dry Production (tonnes) 16972-2  Somalia 2014 Peas, dry Production (tonnes) 110492  South Africa 2014 Peas, dry Production (tonnes) 101492  South America (FAO) 2014 Peas, dry Production (tonnes) 1944.8  South America (FAO) 2014 Peas, dry Production (tonnes) 1136.8  South South Sudan 2014 Peas, dry Production (tonnes) 119057.712  Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 19057.712  Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 1176511.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1211419.8  Spain Southan 2014 Peas, dry Production (tonnes) 1211419.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1211419.8  Spain Si Lanka 2014 Peas, dry Production (tonnes) 138310.544  Sri Lanka 2014 Peas, dry Production (tonnes) 11583.8  Sudan 2014 Peas, dry Production (tonnes) 121693.8  Sudan 2014 Peas, dry Production (tonnes) 121693.8  Sudan 2014 Peas, dry Production (tonnes) 121693.8		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  New Guick New New Measure measure column table Calculations  Structure  Food Category Production (tonnes)  Serola 2014 Peas, dry Production (tonnes) 25493.926  Sierra Leone 2014 Peas, dry Production (tonnes) 25893.927.2  Sievenia 2014 Peas, dry Production (tonnes) 26993.222  Sowenia 2014 Peas, dry Production (tonnes) 3000  Peas, dry Production (tonnes) 16972.2  Somalia 2014 Peas, dry Production (tonnes) 110972.2  Somalia 2014 Peas, dry Production (tonnes) 110972.2  South Africa 2014 Peas, dry Production (tonnes) 110972.2  South America (FAO) 2014 Peas, dry Production (tonnes) 1176511.8  South South America (FAO) 2014 Peas, dry Production (tonnes) 1176511.8  Southern Asia (FAO) 2014 Peas, dry Production (tonnes) 1176511.8  Southern Asia (FAO) 2014 Peas, dry Production (tonnes) 1176511.8  Southern Asia (FAO) 2014 Peas, dry Production (tonnes) 111693.2  Southern Asia (FAO) 2014 Peas, dry Production (tonnes) 111693.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1115493.8  Southern Europe (FAO) 2014 Peas, dry Production		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name		
2.	Data Preprocessing	File Home Help Table tools  Name Data  Name Data  New Quick New New Measure measure column table  Relationships  Relationships  Serola 2014 Peas, dip Production (tonnes) 25483-926  Silovania 2014 Peas, dip Production (tonnes) 16972-2  Singula Island Developin 2014 Peas, dip Production (tonnes) 16972-2  Somalia 2014 Peas, dip Production (tonnes) 11048-2  South Africa 2014 Peas, dip Production (tonnes) 11048-2  South America (RAO) 2014 Peas, dip Production (tonnes) 11168-1  South America (RAO) 2014 Peas, dip Production (tonnes) 1116511.8  South-eastern Asia (RA 2014 Peas, dip Production (tonnes) 119057-712  Southern Africa (RAO) 2014 Peas, dip Production (tonnes) 119057-712  Southern Asia (RAO) 2014 Peas, dip Production (tonnes) 1211419.8  Southern Europe (RAO) 2014 Peas, dip Production (tonnes) 1117691.8  Southern Europe (RAO) 2014 Peas, dip Production (tonnes) 1117691.8  Spain 2014 Peas, dip Production (tonnes) 111793-8  Sudan 2014 Peas, dip Production (tonnes) 12198-888  Sudan 2014 Peas, dip Production (tonnes) 12198-888  Suitaname 2014 Peas, dip Production (tonnes) 12198-888  Switzerland 2014 Peas, dip Production (tonnes) 24008  Switzerland 2014 Peas, dip Production (tonnes) 267808-548		
2.	Data Preprocessing	File Home Help Table tools  Name Data  New Quick New New New Production Value Structure  Food Category Production (tonnes) 2548.3926  Sierra Leone 2014 Peas, dry Production (tonnes) 2548.3926  Slovania 2014 Peas, dry Production (tonnes) 2859.237.72  Silovenia 2014 Peas, dry Production (tonnes) 1697.22  Somalia 2014 Peas, dry Production (tonnes) 1697.22  Somalia 2014 Peas, dry Production (tonnes) 110482  South Africa 2014 Peas, dry Production (tonnes) 101482  South America 2014 Peas, dry Production (tonnes) 11364.8  South America 2014 Peas, dry Production (tonnes) 11364.8  South America 2014 Peas, dry Production (tonnes) 11942.268  South Korea 2014 Peas, dry Production (tonnes) 11957.712  Southern Africa 2014 Peas, dry Production (tonnes) 119651.8  Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 119657.712  Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 1116957.712  Southern Africa (FAO) 2014 Peas, dry Production (tonnes) 111695.713  Southern Europe (FAO) 2014 Peas, dry Production (tonnes) 1211419.8  Spain 2014 Peas, dry Production (tonnes) 1211419.8  Spain 2014 Peas, dry Production (tonnes) 12196.688  Sudan 2014 Peas, dry Production (tonnes) 12196.688  Suriname 2014 Peas, dry Production (tonnes) 12196.688  Switzerland 2014 Peas, dry Production (tonnes) 12196.688  Switzerland 2014 Peas, dry Production (tonnes) 38310.544  Spria 2014 Peas, dry Production (tonnes) 44324.33  Suriname 2014 Peas, dry Production (tonnes) 2678084.54  Spria 2014 Peas, dry Production (tonnes) 2678084.54		

3.	Utilization of Data	Top 7 Production Values
	Filters	Bottom 7 Production Vlaues

		T 400 L .: L L	
		Top 10 Production value by year	
SUMMAR SUM(Data DESC ) RE Data[Enti		1.Top producing Country = VAR TopCountry = TOPN(1, SUMMARIZE(Data, Data[Entity], "TotalProduction", SUM(Data[Production Value])), [TotalProduction], DESC) RETURN CONCATENATEX(TopCountry, Data[Entity], ", ")  2. TOP 5 countries = VAR Topcountries= TOPN(5,	
		SUMMARIZE(	
		Data,	
		Data[Entity],	
		"TotalProduction", SUM(Data[Production	
		Value])	
		), [TatalDradustion]	
		[TotalProduction], DESC	
		) RETURN	
		CONCATENATEX(	
		ADDCOLUMNS( TopCountries, "Rank", RANKX(TopCountries, [TotalProduction], , DESC ), [Rank] & " : " & [Entity], "   "	
		3. Target = SUM(Data[Production Value])*0.2	
5.	Dashboard design	D File v	
		Asia Peru World Argentra Western. Albania Ocianna 400.25bm 2.00T 2.00T 226	
		Sum of Production Value Bottom 5 Production Value by Country Top 5 Production Value	
		300n Sign Sign Sign Sign Sign Sign Sign Sig	
		20th 1960 2000 2000 Entity	

