## Project Development Phase Model Performance Test

Date	10 March 2025
Team ID	PNT2025TMID02999
Project Name	Global Malnutition trends:A Power Bl Analysis(1983-2019)
Maximum Marks	

## **Model Performance Testing:**

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	The dataset consists of global malnutrition records from
		1983 to 2019, collected from sources like:
		WHO – World Health Organization reports
		UNICEF – Child nutrition data
		World Bank – Economic & development indicators
l		National Health Surveys – Regional malnutrition statistics
		Key Attributes in the Dataset
		Country/Region – Geographic classification Year
		(1983-2019) – Time-based trends Malnutrition
		Types:
		Undernourishment (%)
		Child Stunting (%)
		Child Wasting (%)
		Obesity (%)
		Malnutrition Deaths (Count)
		Socioeconomic Indicators:
		GDP per capita
		Healthcare access (%)
		Food security index
		Literacy rate (%)

2.	Data Preprocessing	Before building the Power BI dashboard, we clean and process the data:
		Handling Missing Values: Replacing empty fields with mean/median valuesDropping irrelevant columns Data Transformation: Standardizing year formatsConverting categorical variables

		Data Normalization:
		Scaling GDP, literacy, and health indicators for uniform
		comparison
		Merging Multiple Data Sources:
		Combining WHO, UNICEF, and World Bank datasets
3.	Utilization of Data Filters	Power BI provides interactive filters for better analysis:
		Year-Based Filters: Users can select a specific year or range
		to observe malnutrition changes.
		Country/Region Filters: Compare malnutrition rates across
		different countries or continents.
		Malnutrition Type Filters: Users can focus on child
		malnutrition, obesity, or food security indicators. Economic
		Factor Filters: Assess malnutrition trends in relation to GDP,
		healthcare access, and food security.
4.	DAX Queries Used	Power BI DAX (Data Analysis Expressions) is used for
		calculated columns & measures: Average
		Malnutrition Rate per Decade:
		Average_Malnutrition = AVERAGEX(FILTER(Data, Data[Year]
		>= 1980 && Data[Year] <= 1990), Data[Malnutrition Rate])
		Constitution Males Little a Constitution
		Cumulative Malnutrition Cases Over Time:
		Cumulative Cases = CALCULATE(SUM(Data[Malnutrition
		_
		Cases]), FILTER(ALL(Data), Data[Year] <= MAX(Data[Year])))

