

Project Development Phase Model Performance Test


Date	10 February 2025
Team ID	PNT2022TMIDxxxxxx
Project Name	Project - xxx
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	Plant growth data including soil type,fertilizer type ,water frequency,temperature ,humidity and growth milestone
2.	Data Preprocessing	Cleaned missing values ,standardized data formats and remove duplicates
3.	Utilization of Data Filters	Filters applied for temperature range,fertilizer type ,soil type and water frequency
4.	DAX Queries Used	<pre> 1.Average_Humidity = AVERAGE(plant_growth_data[Humidity]) 2.Average_Sunlight_Hours = AVERAGE(plant_growth_data[Sunlight_Hours]) 3.AVERAGE(plant_growth_data[Sunlight_Hours]) 4,Average_Temperatue = AVERAGE(plant_growth_data[Temperature]) 5.Growth_Milestone_Count = COUNTROWS(FILTER(plant_growth_data, plant_growth_data[Growth Milestone]=1)) 6.Growth_Milestone_Percentage = DIVIDE([Growth_Milestone_Count], COUNTROWS(plant_growth_data), 0) 7.Water_Frequency_Numeric = SWITCH([Water_Frequency], "daily",1, "bi-weekly",2, "weekly",3, BLANK()) 8.Temperature_Range = SWITCH(TRUE(), [Temperature]<15,"Low", [Temperature]>=15 && [Temperature]<25,"Moderate", </pre>

		<pre> [Temperature]>=25,"High") 9.Humidity range = SWITCH(TRUE(), [Humidity]<40,"Low", [Humidity]>=40 && [Humidity]<60,"Moderate", [Humidity]>=60 , "High") 10.Humidity Level Description = SWITCH(TRUE(), [Humidity]<30,"Very Dry", [Humidity]>=30 && [Humidity]<50,"Dry", [Humidity]>=50 && [Humidity]<70,"Moderate", [Humidity]>=70 && [Humidity]<90,"Humid", [Humidity]>=90,"Very Humid") 11.Temperature Range Description = SWITCH(TRUE(), [Temperature]<10,"Very Cold", [Temperature]>=10 && [Temperature]<20,"Cold", [Temperature]>=20 && [Temperature]<30,"Moderate", [Temperature]>=30 && [Temperature]<40,"Warm", [Temperature]>=40,"Hot") 12.Growth Milestone Description = SWITCH([Growth Milestone], 0,"Early Stage", 1,"Mature Stage", "Unknown Stage") 13.Plant Growth Category = SWITCH([Growth Milestone], 0,"Initial Growth", 1,"Advanced Growth", "Uncategorized") </pre>
5.	Dashboard design	<p>No. of Visualizations / Graphs –</p> <ul style="list-style-type: none"> • KPI Card – Average Humidity • KPI Card – Average Temperature • Clustered Bar Chart – Growth by Soil Type and Fertilizer Type • Line Chart – Growth by Humidity Range and Water Frequency • Clustered Bar Chart – Growth by Temperature Range • Donut Chart – Growth by Water Frequency • Scatter Plot – Sunlight Hours vs Growth

		<p>Milestone</p> <ul style="list-style-type: none"> • Clustered Column Chart – Average Temperature by Temperature Range • Slicer – Temperature Range • Slicer – Fertilizer Type • Slicer – Soil Type • Slicer – Water Frequency 
6	Report Design	<p>No. of Visualizations / Graphs –</p> <ul style="list-style-type: none"> • Card – Average Humidity (58.10) • Card – Average Sunlight Hours (6.83) • Card – Average Temperature (25.08) • Line Chart – Growth by Humidity Level and Water Frequency • Stacked Bar Chart – Growth Milestone by Fertilizer Type and Soil Type • Pie Chart – Humidity by Water Frequency • Gauge Chart – Growth Milestone Count (96 out of 192) • Text Box – Plant Growth Report summarizing insights from the data 