**Power BI Project Summary: Step-by-Step Actions & Answers**

**1. Which products are currently below their reorder level?**

I created a calculated column 'BelowReorder' in the Inventory\_Levels table using:

BelowReorder = IF([CurrentStock] < [ReorderLevel], "Yes", "No")

Then, I used a Table visual to show Product Name, Current Stock, Reorder Level, and BelowReorder.

Filtered to show only products where BelowReorder = 'Yes'.

**2. What is the total stock value across all warehouses?**

I created a DAX measure called 'TotalStockValue' using:

TotalStockValue = SUMX('Inventory\_Levels', 'Inventory\_Levels'[CurrentStock] \*

RELATED('Products'[UnitCost]))

Then, I used a Card visual to display this total stock value.

**3. Which product categories contribute the most to inventory value?**

I used a bar chart with 'Products[Category]' as the axis and 'TotalStockValue' as the value.

This allowed me to visualize which categories hold the highest inventory value.

**4. Which suppliers have the best on-time delivery rates?**

I used a bar chart and a matrix visual. In the bar chart, I displayed 'Suppliers[SupplierName]' and their

'OnTimeDeliveryRate'.

In the matrix, I included additional columns like 'LeadTimeDays' for comparison.

**5. What is the average lead time for all suppliers?**

I created a DAX measure called 'AvgLeadTime' using: AvgLeadTime = AVERAGE('Suppliers'[LeadTimeDays]) Displayed it using a Card visual.

**6. Which products have not been restocked in over 30 days?**

I added a calculated column in the Inventory\_Levels table:

DaysSinceRestock = DATEDIFF([LastRestockDate], TODAY(), DAY)

In a Table visual, I added Product Name, Last Restock Date, and DaysSinceRestock.

I then filtered the visual to show only rows where DaysSinceRestock > 30.

I also changed 'Sum of DaysSinceRestock' to 'Don't summarize' to show row-level values.

**7. What are the top 5 fastest-moving products (highest outbound quantity)?**

I created a measure called 'TotalOutbound' using:

TotalOutbound = CALCULATE(SUM('Inventory\_Transactions'[Quantity]), 'Inventory\_Transactions'[Type] = "OUTBOUND")

Then, I used a bar chart with Product Name on the axis and TotalOutbound as the value.

And I sorted the chart in descending order.

**8. How much stock was moved INBOUND vs OUTBOUND over time?**

I created two separate measures:

TotalInbound = CALCULATE(SUM('Inventory\_Transactions'[Quantity]), 'Inventory\_Transactions'[Type] = "INBOUND")

TotalOutbound = CALCULATE(SUM('Inventory\_Transactions'[Quantity]), 'Inventory\_Transactions'[Type] = "OUTBOUND")

I used a line chart with Date on the X-axis and both TotalInbound and TotalOutbound on the Y-axis to visualize trends.

**9. Which warehouses hold the highest stock value?**

I used a pie chart with WarehouseID as legend and TotalStockValue as the value.

This allowed me to compare stock value held in each warehouse location.

**10. What is the inventory turnover rate?**

I created a DAX measure:

TurnoverRate = DIVIDE([TotalOutbound], AVERAGE('Inventory\_Levels'[CurrentStock]))

Then, I used a Card visual to show the Turnover Rate, which indicates how fast inventory is moving.