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Inventory Overview:

The screenshot shows the Power BI Desktop interface with the 'Inventory Overview' page selected. The page contains three main visualizations: a KPI card for 'Inventory Turnover Rate' (8.00) and 'Average Stock Level' (87.50), a donut chart for 'Stock Distribution by Status' (30.29% Excess, 68.71% Low), and a bar chart for 'Total Stock by Warehouse' across Bangalore, Chennai, Pune, and Hyderabad WH. The Power BI ribbon is visible at the top, and the Data pane on the right lists various inventory-related fields.

Shortage & Overstock Analysis:

The screenshot shows the Power BI Desktop interface with the 'Shortage & Overstock Analysis' page selected. The page features a table titled 'Product Stock Status' showing stock levels and reorder points for various products across warehouses, and a bar chart titled 'Shortage Count by WarehouseName' showing shortage counts for Bangalore, Hyderabad, Chennai, and Pune WH. The Power BI ribbon is visible at the top, and the Data pane on the right lists various inventory-related fields.

Sales & Movement Analysis:

Sum of MonthlySales by ProductName

ProductName	Sum of MonthlySales	Movement
Bearing	40	0.32 Slow Moving
Control Panel	35	1.75 Slow Moving
Copper Wire	165	1.50 Fast Moving
Gear Box	55	1.83 Fast Moving
Motor	60	2.40 Fast Moving
Pump	95	1.73 Fast Moving
Steel Rod	250	1.72 Fast Moving
Total	790	8.60 Fast Moving

Dashboard (includes navigation):

Supply Chain & Inventory Analysis – Key Questions

- Which products are below reorder point? - Steel Rod, Copper Wire, Gear Box, Motor, Control Panel, and Pump
- Which warehouses have frequent shortages? - Bangalore Warehouse and Hyderabad Warehouse
- What is the inventory turnover rate? - 8.60
- Which products need immediate replenishment? - Steel Rod, Copper Wire, Gear Box, Motor, and Control Panel

Tables:

Table 1: Inventory

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Inventory (10 rows) Columns: Shortage Count (11 distinct values)

InventoryID	ProductID	WarehouseID	StockLevel	LastRestockDate	Low Stock Flag	Stock Status	Replenishment Priority
I001	P101	W01	90	10/12/2021	Below Reorder Point	Low	Immediate
I002	P101	W02	60	10/12/2021	Above Reorder Point	High	Normal
I003	P102	W01	60	05/12/2021	Below Reorder Point	Low	Normal
I004	P102	W03	100	05/12/2021	Between Reorder Points	Medium	Normal
I005	P103	W02	30	05/12/2021	Below Reorder Point	Low	Immediate
I006	P104	W04	25	28/11/2021	Below Reorder Point	Low	Immediate
I007	P105	W01	180	40/12/2021	Sufficient	Excess	Normal
I008	P106	W03	20	30/11/2021	Below Reorder Point	Low	Immediate
I009	P107	W02	70	25/12/2021	Sufficient	Excess	Normal
I010	P107	W01	40	30/12/2021	Below Reorder Point	Low	Normal

Table 2: Products

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Products (7 rows)

ProductID	ProductName	Category	ReorderPoint	UnitCost
P101	Steel Rod	Raw Material	120	500
P102	Copper Wire	Raw Material	200	700
P103	Gear Box	Component	50	2500
P104	Motor	Component	40	4500
P105	Bearing	Component	100	600
P106	Control Panel	Finished Goods	30	8000
P107	Pump	Finished Goods	45	6500

Table 3: Warehouses

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Warehouses (4 rows)

WarehouseID	WarehouseName	Location
W01	Bangalore WH	Bangalore
W02	Chennai WH	Chennai
W03	Pune WH	Pune
W04	Hyderabad WH	Hyderabad

Relationship:

