SUPPLY CHAIN AND INVENTORY ANALYSIS

Overview KPI

Stock Status

Warehouse Analysis

Product Analysis

Products: All

SKU: All

Location: All

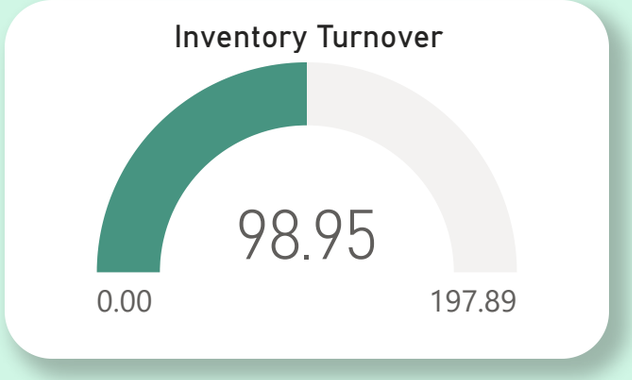
Supplier name: All

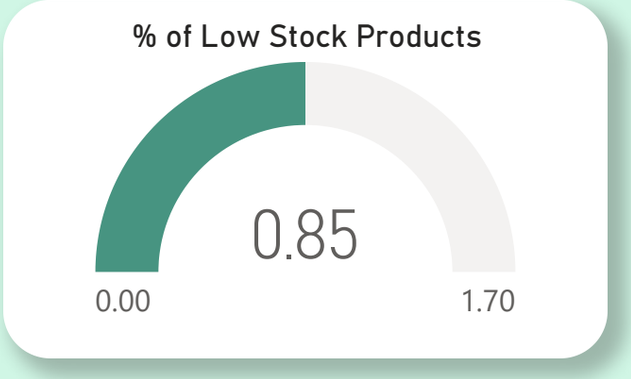
Stock Status: All

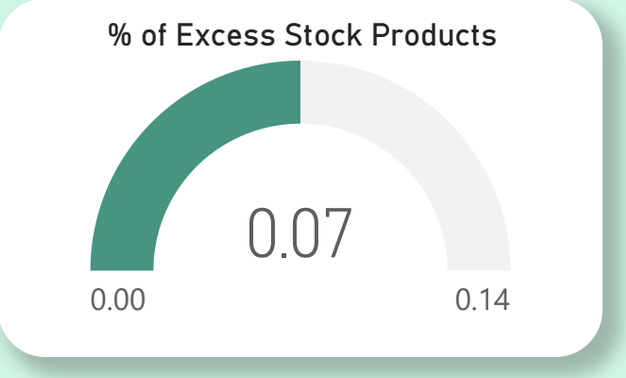
Availability: 1 – 100

Total Products	Total Revenue	Average Lead Time
100	577.60K	1.71K

Min Stock	Max Stock	Average Stock
0	100	47.77







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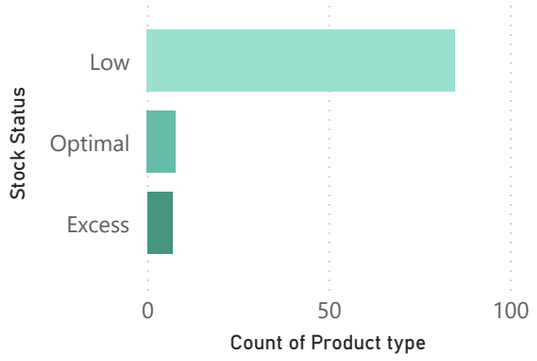
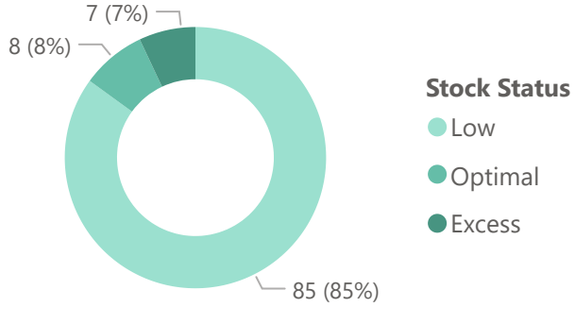
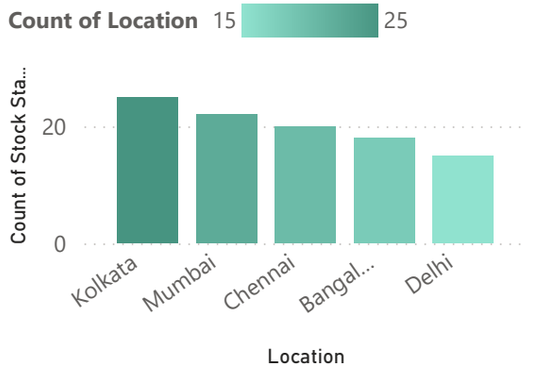
No of Products by Stock Status



Distribution of Stock Status



Stock Status by Location



SKU-wise Stock Status with Stock levels, Reorder Point, Max Stock Level

SKU	Product type	Location	Stock levels	Reorder Point	Max Stock	Stock Status
SKU68	haircare	Bangalore	0	10.87	0	Low
SKU2	haircare	Mumbai	1	3.20	1	Low
SKU34	skincare	Chennai	1	80.27	1	Low
SKU16	skincare	Bangalore	2	28.00	2	Low
SKU24	haircare	Bangalore	4	195.07	4	Low
SKU33	cosmetics	Chennai	4	20.53	4	Low

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SKU: All

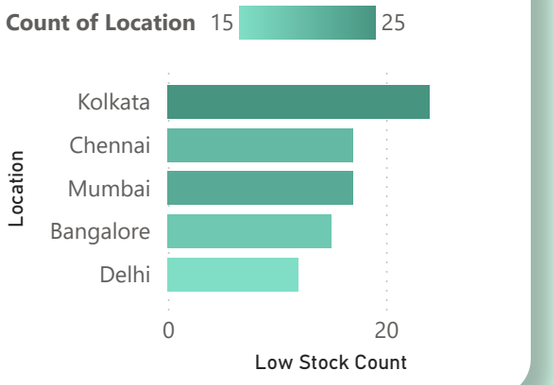
Location: All

Supplier name: All

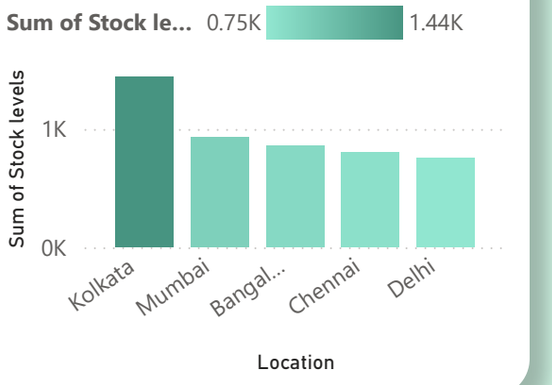
Stock Status: All

Availability: 1 – 100

Low Stock Count by Location



Total Stock Levels by Location



Location-wise SKU details with Stock Status

SKU	Product type	Location	Stock levels	Reorder Point	Replenishment Gap	Number of products sold
SKU53	skincare	Delhi	96	8.07	-87.93	242
SKU45	haircare	Chennai	93	20.00	-73.00	24
SKU12	haircare	Kolkata	100	33.60	-66.40	336
SKU92	cosmetics	Mumbai	90	36.80	-53.20	276
SKU5	haircare	Bangalore	90	49.00	-41.00	147
SKU71	cosmetics	Bangalore	76	42.47	-33.53	637

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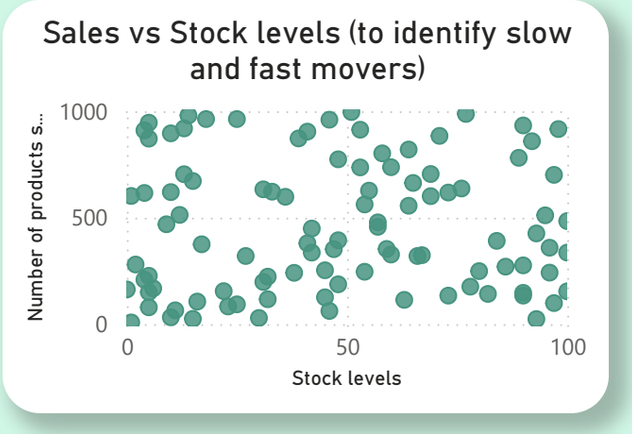
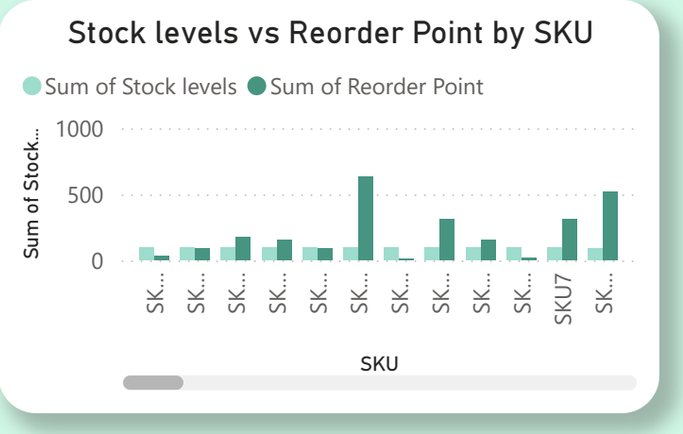
Availability: 1 – 100





Slow-moving products

SKU	Product type	Stock levels	Number of products sold	Slow Moving
SKU0	haircare	58	802	No
SKU1	skincare	53	736	No
SKU10	skincare	51	996	No
SKU11	skincare	46	960	No
SKU12	haircare	100	336	No
SKU13	skincare	80	249	No

SUMMARY:

1.Identify products with stock levels below reorder point.
2.Perform univariate analysis on stock levels.
3.Which warehouses experience frequent stock shortages?
4.Create a DAX measure to classify stock status (Low, Optimal, Excess).

```
Stock Status =
SWITCH (
    TRUE(),
    'supply_chain_data'[Stock levels] < 'supply_chain_data'[Reorder Point], "Low",
    'supply_chain_data'[Stock levels] > 'supply_chain_data'[Max Stock Level], "Excess",
    "Optimal"
)
```

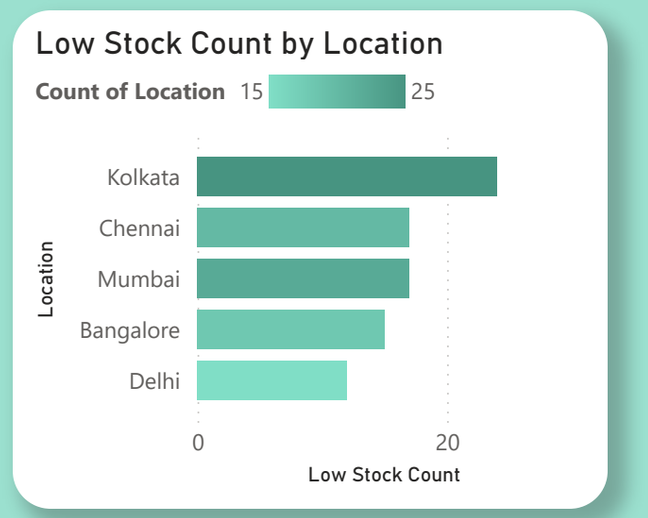
5.Calculate inventory turnover rate.

```
Stock Status =
Inventory Turnover =
DIVIDE (
    SUM ( 'supply_chain_data'[Manufacturing costs] ),
    [Average Inventory]
)
```

6.Identify slow-moving products using sales and inventory data.
7.Design a dashboard to monitor stock health.
8.Which products require immediate replenishment?
9.How can inventory insights reduce holding costs?

- Identifies excess stock to reduce overordering
- Detects slow-moving products to avoid unnecessary storage
- Optimizes reorder quantities using actual demand
- Improves inventory turnover, reducing capital lock-in

Average Stock	Max Stock	Min Stock
47.77	100	0



SKU-wise Stock Status with Stock levels, Reorder Point

SKU	Product type	Stock levels	Reorder Point	Stock Status	Slow Moving	Replenishment Gap
SKU0	haircare	58	775.27	Low	No	717.27
SKU1	skincare	53	564.27	Low	No	511.27
SKU10	skincare	51	597.60	Low	No	546.60
SKU11	skincare	46	896.00	Low	No	850.00