$58.21K
Total Costs

38.98%
Inspection Pass Rate %

48.40%
Stock Availability %

575
Total Shipments

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Clarity in Every Chain

In today’s competitive business environment, efficient inventory management, supplier evaluation, and logistics optimization are critical for maintaining a seamless supply chain. This project aims to leverage data analytics and visualization tools to gain actionable insights into stock availability, sales performance, supplier efficiency, and transportation logistics.

Inventory and Costs | **Supplier and Manufacturing I** | **Supplier and Manufacturing II** | **Sales Overview** | **Insights**

Supclair

Main

Inventory and Costs

Supplier and Manufacturing I

Supplier and Manufacturing II

Sales Overview

Insights

$577.6K	$58.21K	$52.9K	$555	$4.7K	48.40%	575
Total Revenue	Total Costs	General Costs	Total Shipping Costs	Manufacturing Cost	Stock Availability %	Total Shipments

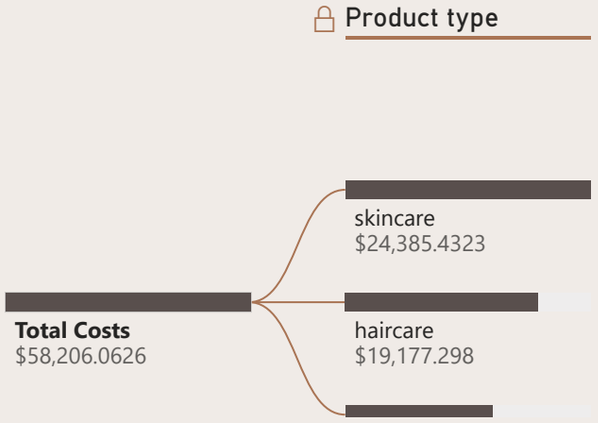
Products with Stock Availability less than 20%

Which products have critically low stock?

SKU	Stock Availability %	Total Order Quantity
SKU45	1.00%	52
SKU52	1.00%	11
SKU29	3.00%	67
SKU13	5.00%	48
SKU37	5.00%	21
SKU43	6.00%	85
SKU26	9.00%	48
SKU81	9.00%	8

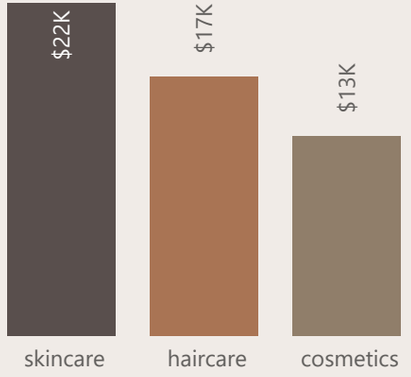
Total Expenses by Product type

Which product type has the highest expense?



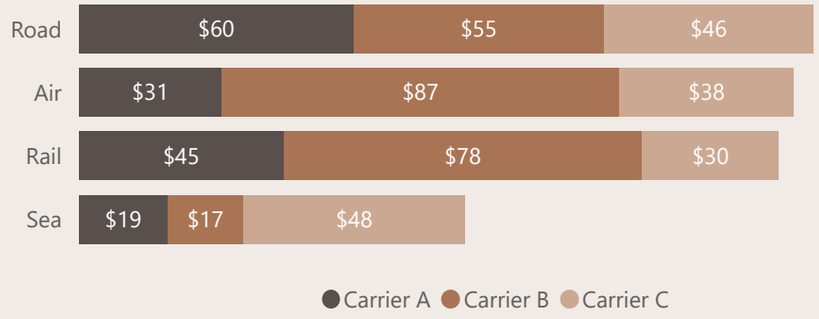
General costs by Products

Which product needs the highest investment?



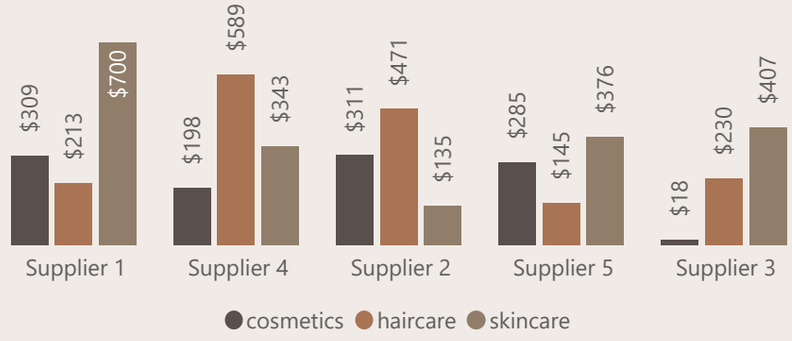
Shipping Costs by Shipping Carriers & Transportation Modes

Which transportation mode is the most expensive?



Manufacturing costs by Suppliers and their Products

Who's spending the most to bring beauty to life?



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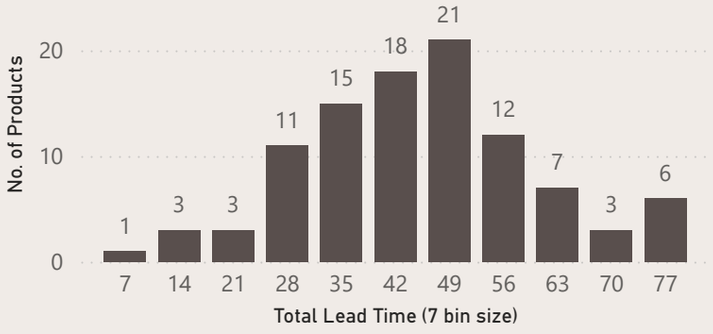
- Main
- Inventory and Costs
- **Supplier and Manufacturing I**
- Supplier and Manufacturing II
- Sales Overview
- Insights

15.96	17.08	14.77	36	38.98%	38.45%	1.23K
Average Order Lead time	Average Supplier Lead Time	Average Manufacturing Lead Time	High Defect Count	Inspection Pass Rate %	Manufacturing Efficiency	Manufacturing Waste Rat...

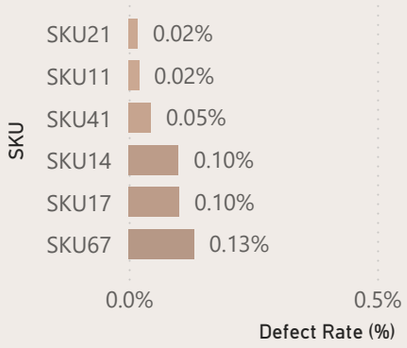
Total Lead Time Distribution

How often do different lead times occur?



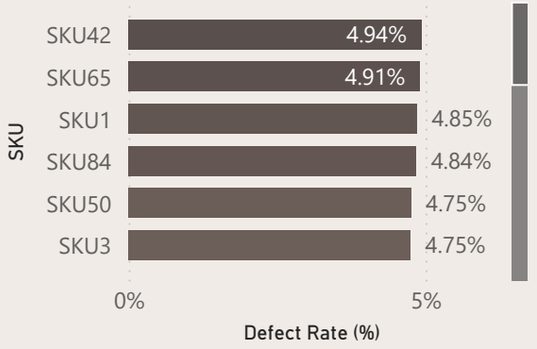
Least 20 SKU with Defect Rates

Which products have the fewest defects?



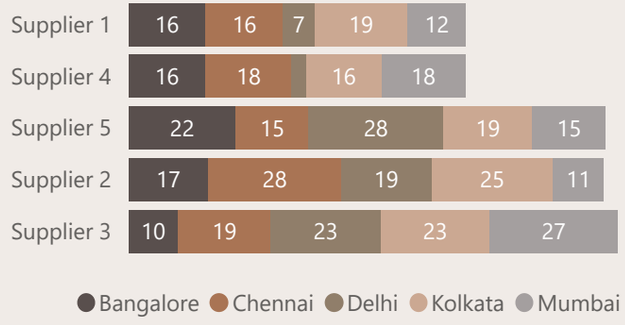
HIghest 20 SKU with Defect Rates

Which products need quality improvements?



Average Supplier Lead Time by Supplier & Location

Which suppliers delivers the raw material needed the fastest?



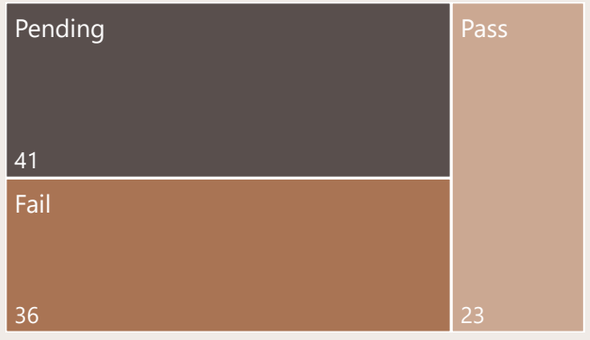
Supplier Performance

Which supplier helped us grow?

Supplier name	Supplier Performance
Supplier 1	● Acceptable
Supplier 2	✓ Good
Supplier 3	✕ Bad
Supplier 4	● Acceptable
Supplier 5	✓ Good

Products count by Inspection results

How many products passed or failed inspection?



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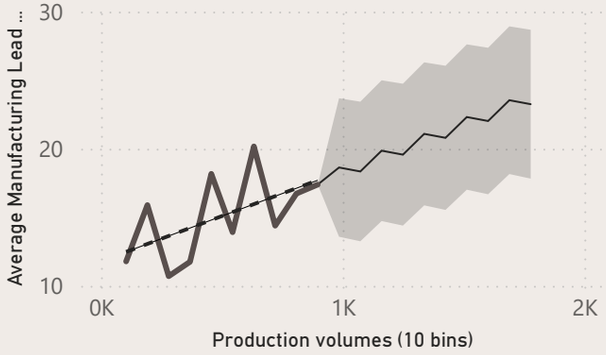
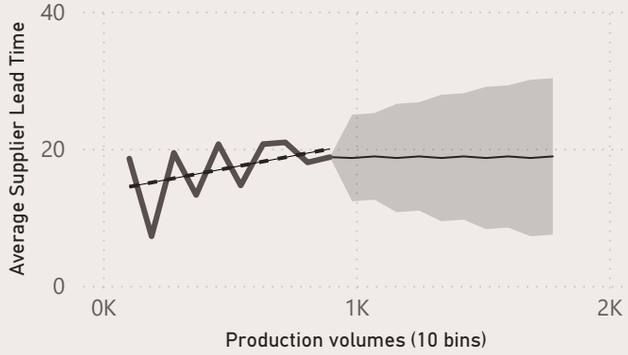
Manufac. Lead time vs. Production Volume

Does production size affect manufacturing speed?



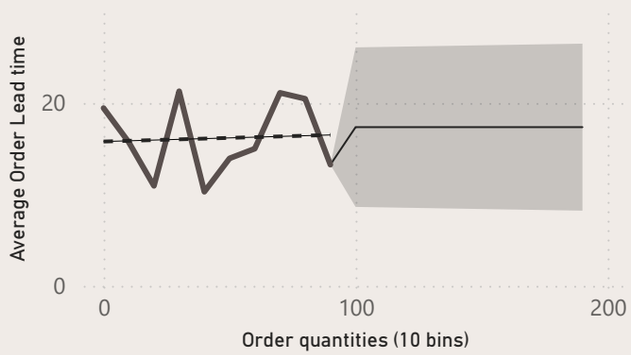
Suppler Lead time vs. Production Volume

Does production volume slow down suppliers?



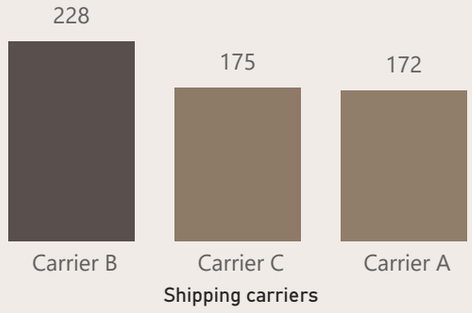
Order Lead time vs. Order quantities

Do bigger orders take longer?



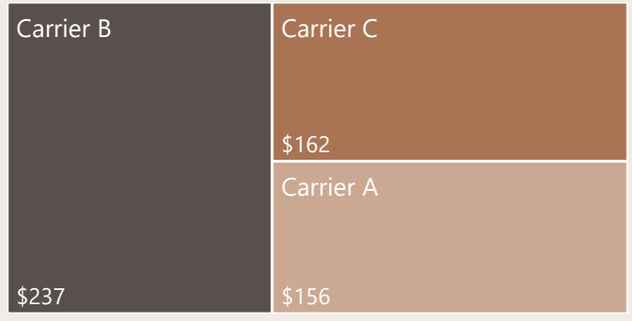
Total Shipments by Shipping carriers

Who Ships Most?



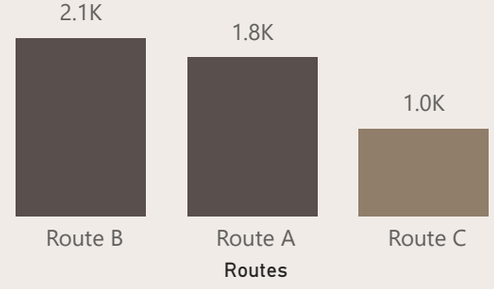
Total Shipping Costs by Shipping carriers

Who Costs Most to Ship?



Total Order Quantity by Routes

Which Route Has the Most Orders?



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Main

Inventory and Costs

Supplier and Manufacturing I

Supplier and Manufacturing II

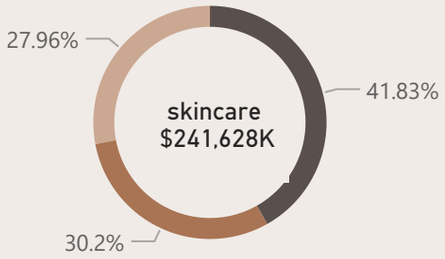
Sales Overview

Insights

$577.6K	$58.21K	$519.4K	46K	4922	575	$12.5
Total Revenue	Total Costs	Total Profit	Total Sold Quantity	Total Order Quantity	Total Shipments	Average Selling Price

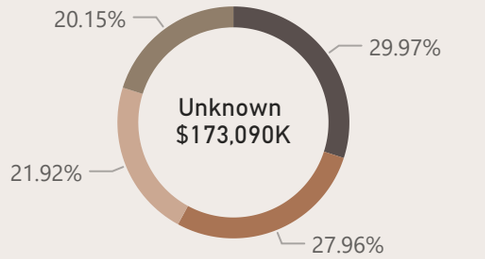
Total Revenue by Product type

Which Product type makes the most Revenue?



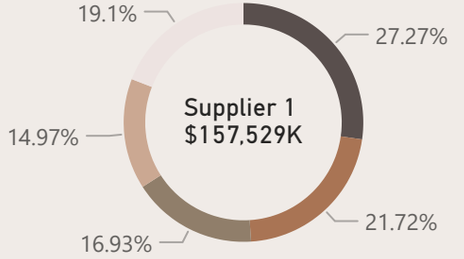
Total Revenue by Gender

Which gender brings in the most revenue?



Total Revenue by Supplier

Which supplier drives the most revenue?



Price and No. of Products Sold Relationship

Does a Lower Price Guarantee Higher Sales?

Top 20 profitable Products?

Which products generate the highest profit?

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Analytics and Insights

Supplier & Manufacturing I

Key Observations
- Supplier 1 & 4 deliver raw materials fastest.
- Supplier 3 lags in speed and quality.
- High defect rates in SKUs 42 & 65 (>4.9%).
- 41 products pending inspection; 36 failed.
- Manufacturing efficiency is low (38.45%) with 1.23K units wasted.

Recommendations:
- Address quality issues with Supplier 3.
- Speed up inspection to reduce backlog.
- Add in-line quality checks to catch defects early.
- Investigate root causes of high waste and defects.

Supplier & Manufacturing II

Key Observations
- Lead time rises with higher production volumes.
- Carrier B is the most used—and most expensive.
- Route B has the highest order volume.

Recommendations:
- Optimize batch sizes to manage lead time.
- Re-evaluate Carrier B costs—consider Carrier A or C.
- Strengthen infrastructure on Route B.

Sales Overview

Key Observations
- Total revenue: $577.6K, with ~90% profit margin.
- Skincare leads in revenue (42%).
- “Unknown” gender segment generates most revenue (29.97%).
- Supplier 1 performs best (27.3% revenue); Supplier 4 underperforms (14.97%).

Recommendations:
- Focus marketing on skincare.
- Improve demographic data accuracy.
- Adjust pricing based on product value.
- Investigate Supplier 4 performance issues.

Inventory & Costs

Key Observations
- SKUs like 45 & 52 are nearly out of stock despite demand.
- Skincare is the most expensive category ($24.4K).
- Air shipping via Carrier B is costliest ($87).
- Supplier 1 has highest manufacturing cost; Supplier 3 is most efficient.

Recommendations:
- Replenish high-demand, low-stock SKUs.
- Review skincare cost drivers.
- Consider shifting from Carrier B to cheaper options.
- Negotiate or reduce reliance on costly Supplier 1.
- Leverage Supplier 3 for cost-effective production.