



Supply Chain Data Analysis using MySQL

A data-driven approach to optimising logistics and inventory management.

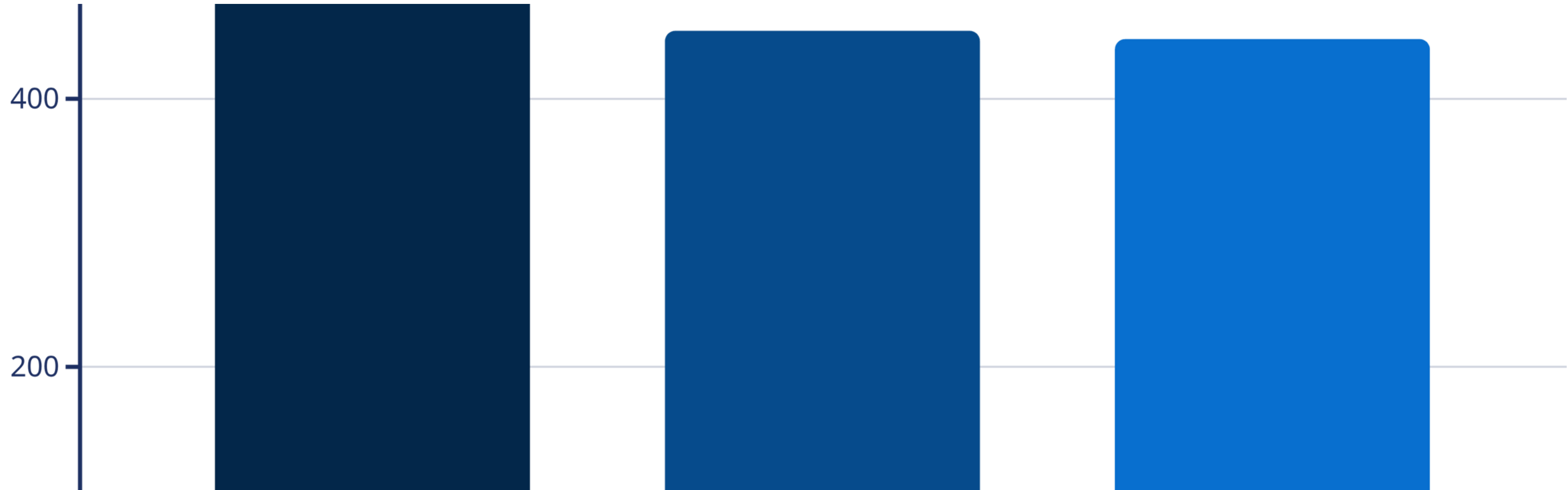
Analysis 2: Most Popular Product Category

Identifying the leading product category provides high-level insight into customer purchasing behaviour, critical for inventory prioritisation.

```
4 # Most popular product category
5 • SELECT
6     Category,
7     COUNT(*) AS total_orders
8 FROM supplychain
9 GROUP BY Category
10 ORDER BY total_orders DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

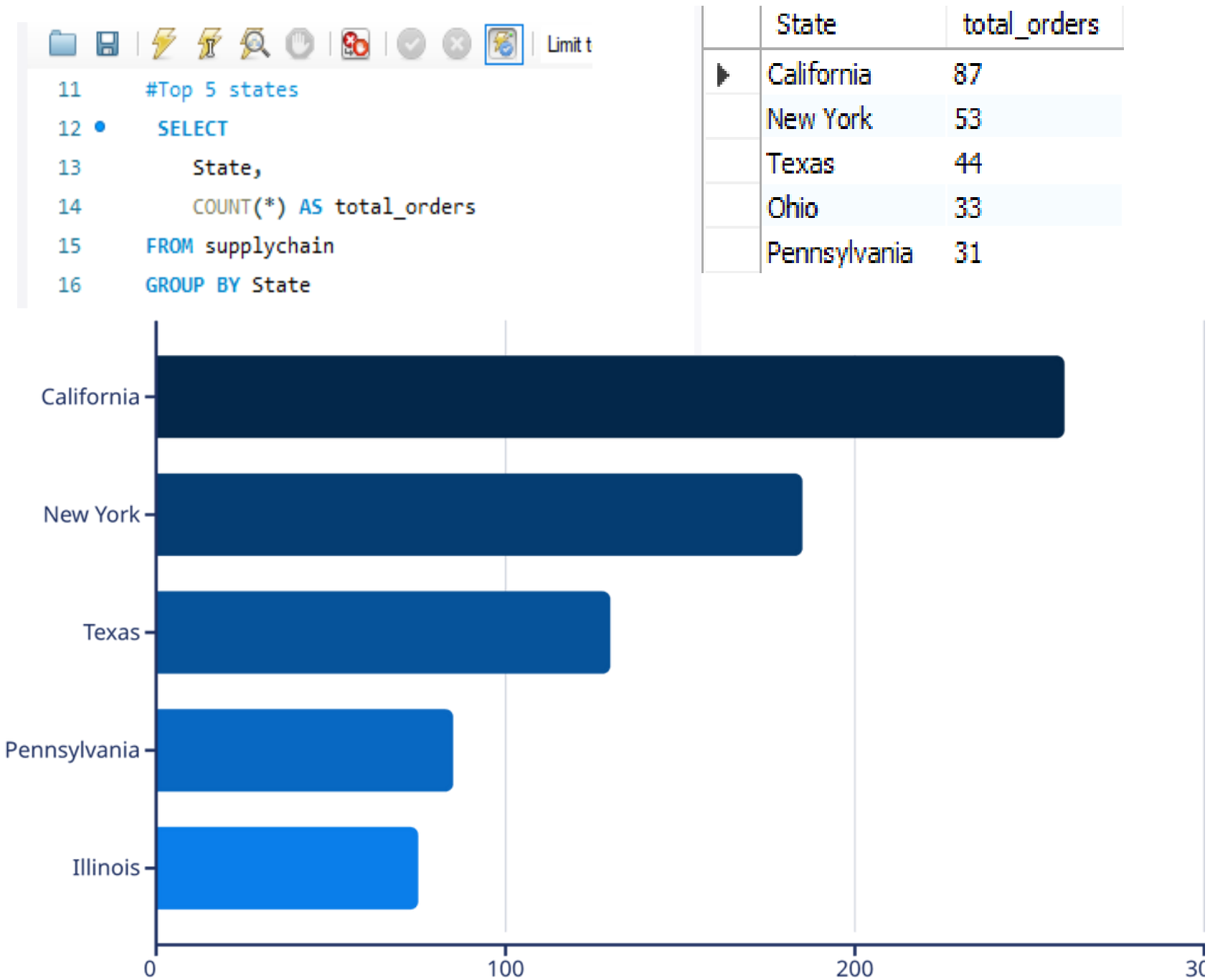
	Category	total_orders
▶	Office Supplies	277
	Furniture	101
	Technology	88



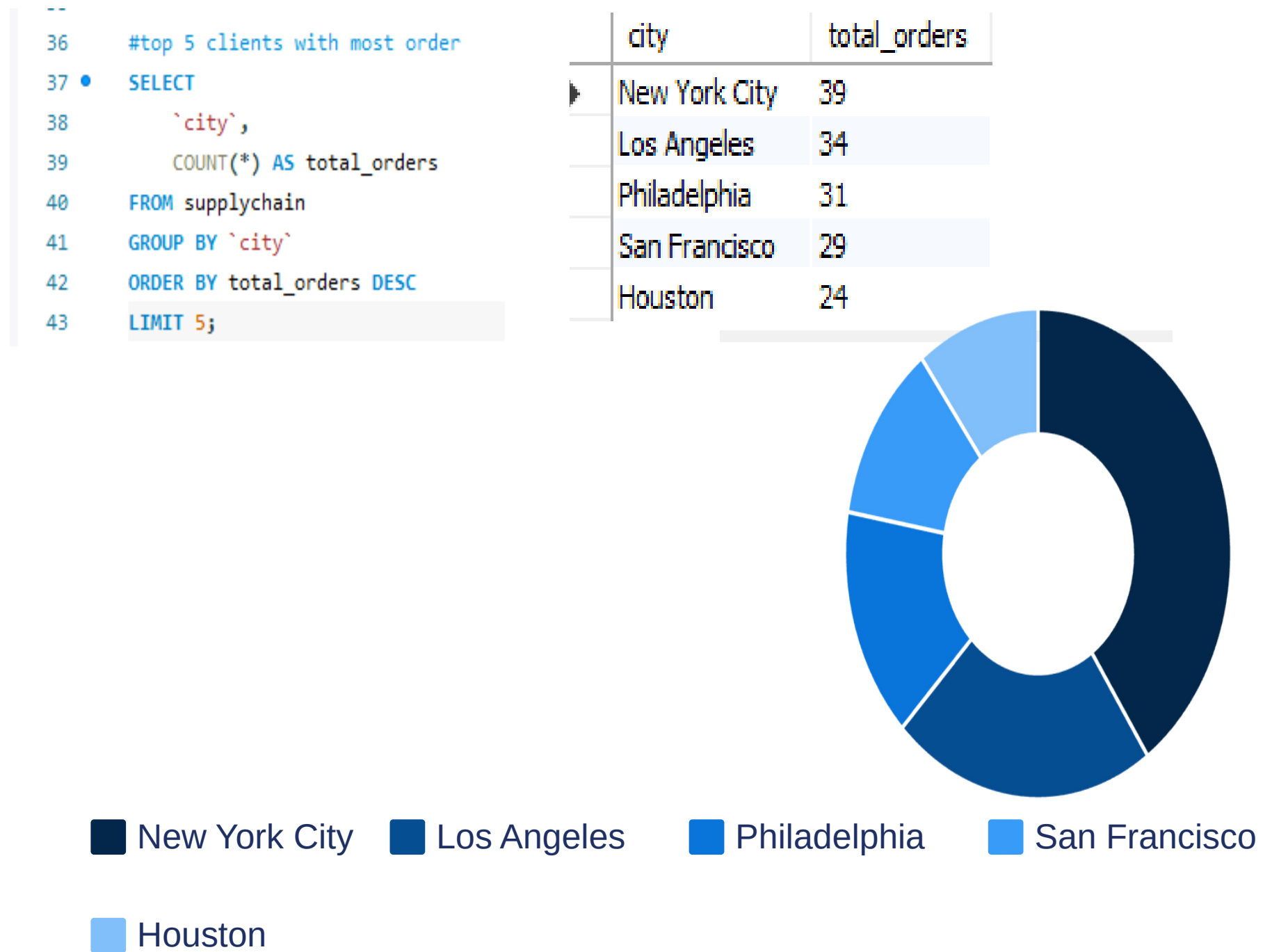
Distribution

A geographical breakdown reveals where demand is concentrated, assisting in optimising distribution centres and regional sales strategies.

Top 5 States by Orders



Top 5 Clients by Orders



California and New York are the dominant states, with New York City showing significant volume. This data is key for capacity planning.

Analysis 4: Top 10 Products Sold

Focusing on the most frequently sold individual items allows for precise inventory management and identification of 'fast movers' that require continuous stocking.

- 1 Binders
- 2 Staplers
- 3 Phones
- 4 Chairs
- 5 Labels
- 6 Storage Bin:
- 7 Envelopes
- 8 Art Supplies

```
#top 10 product sold
SELECT
    `Product Name`,
    COUNT(*) AS total_orders
FROM supplychain
GROUP BY `Product Name`
ORDER BY total_orders DESC
LIMIT 10;
```

Result Grid		
	Product Name	total_orders
	Atlantic Metals Mobile 3-Shelf Bookcases, Custo...	3
	Imation Secure + Hardware Encrypted USB 2.0 ...	3
	Global Deluxe High-Back Manager's Chair	3
	Panasonic Kx-TS550	3
	Easy-staple paper	3
	Hon Deluxe Fabric Upholstered Stacking Chairs,...	2
	Southworth 25% Cotton Antique Laid Paper & E...	2
	Bretford CR4500 Series Slim Rectangular Table	2
	Safco Industrial Wire Shelving	2

Analysis 5: Subcategory Performance

Drilling down into subcategories provides a finer understanding of which specific product lines within the broader categories are driving the highest order volume.

```
27      #subcategory wise product count
28  ●    SELECT
29          `Sub Category`,
30          COUNT(*) AS total_orders
31  FROM supplychain
32  GROUP BY `Sub Category`
33  ORDER BY total_orders DESC
34  LIMIT 10;
35
```

Result Grid			Filter Rows:	Export:
	Sub Category	total_orders		
▶	Binders	61		
	Paper	57		
	Storage	50		
	Art	44		
	Furnishings	40		
	Accessories	39		
	Phones	37		
	Chairs	32		

Sub Category

Key Insight

Binders

Highest volume item, essential for office supply stock management.

Paper

Consumable with consistently high demand.

Phones

Leading subcategory within Technology, indicating strong B2B sales.

Chairs

The top-performing Furniture item, requiring stable supplier relationships.

V

% Out of Stock Items



■ Turnover ■ Target



Key Insights and Strategic Conclusions

The data analysis provides clear direction for inventory optimisation and logistical strategy across high-demand areas and product lines.

Inventory Focus

Prioritise stocking of Binders and Phones, as they represent the highest volume products across subcategories.



Logistics Strategy

Concentrate efforts on establishing regional distribution efficiency in California, New York, and Texas to meet peak demand.

Future Planning

The strong performance of the Technology category warrants further analysis into specific tech products and forecasting future trends.