

Day2 - Data Visualization and Storytelling

#	Abc	📅	📅	Abc	Abc	Abc	Abc	🌐
Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv	Sample - Superstore.csv
Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country
1	CA-2016-152156	08-11-2016	11-11-2016	Second Class	CG-12520	Claire Gute	Consumer	United States
2	CA-2016-152156	08-11-2016	11-11-2016	Second Class	CG-12520	Claire Gute	Consumer	United States
3	CA-2016-138688	12-06-2016	16-06-2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States
4	US-2015-108966	11-10-2015	18-10-2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States
5	US-2015-108966	11-10-2015	18-10-2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States
6	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
7	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
8	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
9	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
10	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
11	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
12	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
13	CA-2017-114412	15-04-2017	20-04-2017	Standard Class	AA-10480	Andrew Allen	Consumer	United States
14	CA-2016-161389	05-12-2016	10-12-2016	Standard Class	IM-15070	Irene Maddox	Consumer	United States
15	US-2015-118983	22-11-2015	26-11-2015	Standard Class	HP-14815	Harold Pawlan	Home Office	United States

Dataset - SuperStore.csv

Total Sales: ₹2.3M – reflects healthy customer acquisition.

Total Profit: ₹286K – a concern when compared to high sales.

Total Orders: 9.9K – consistent volume.

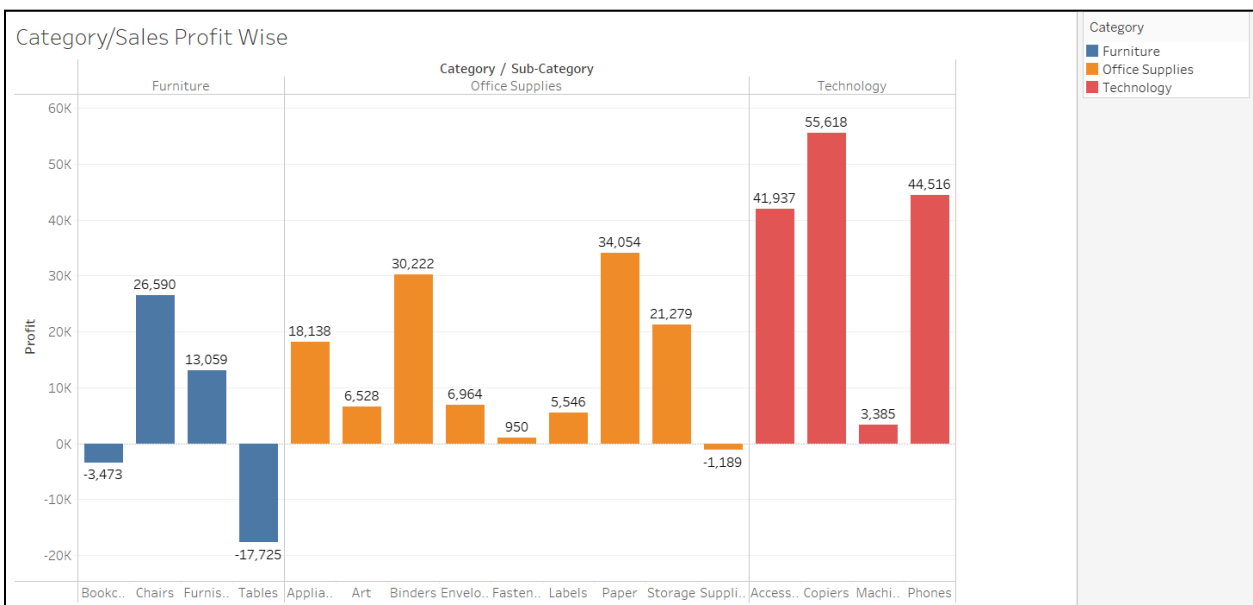
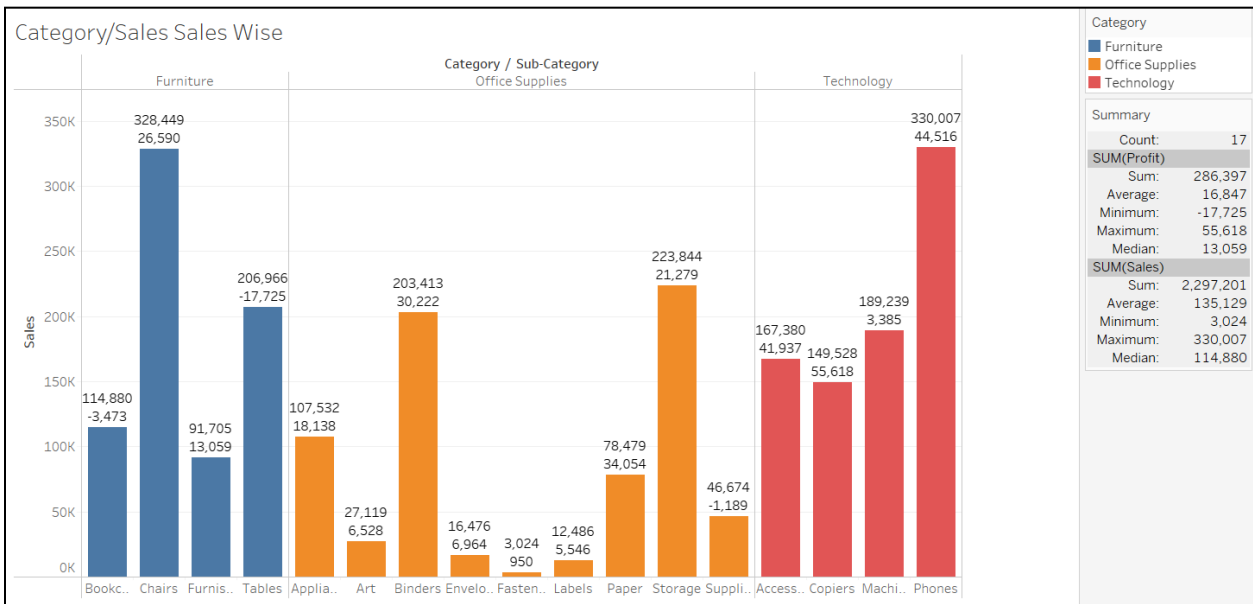
Total Customers: 793 – reveals moderate customer base.

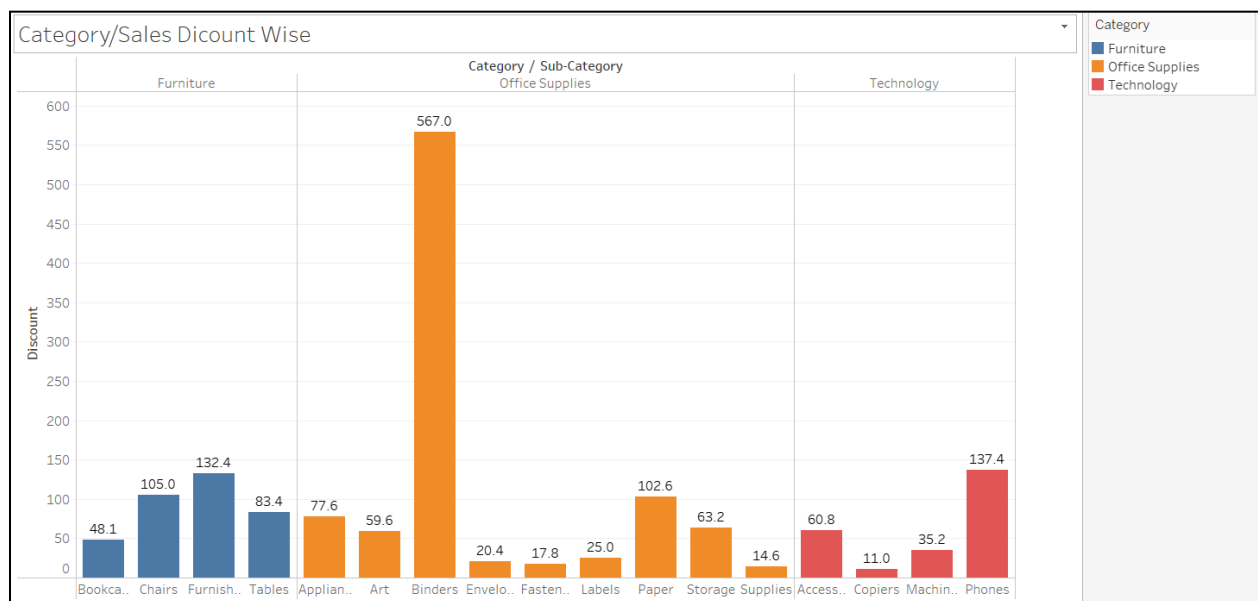
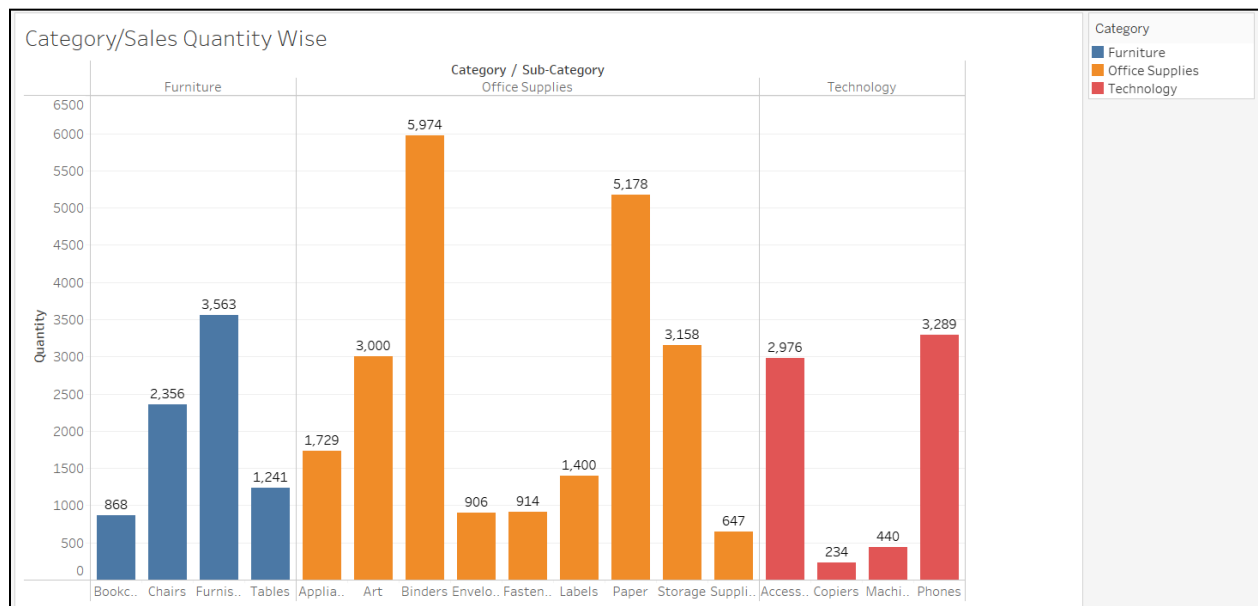
Top Region by Sales: West – leading both in sales and profitability.

Best Ship Mode: Same Day – highest average profit per order.

Most Discounted Product: Tables – alarming red flag due to deep discounts & loss.

Sales and Profit by Category/Sub-Category





Sales and Profit by Category/Sub-Category

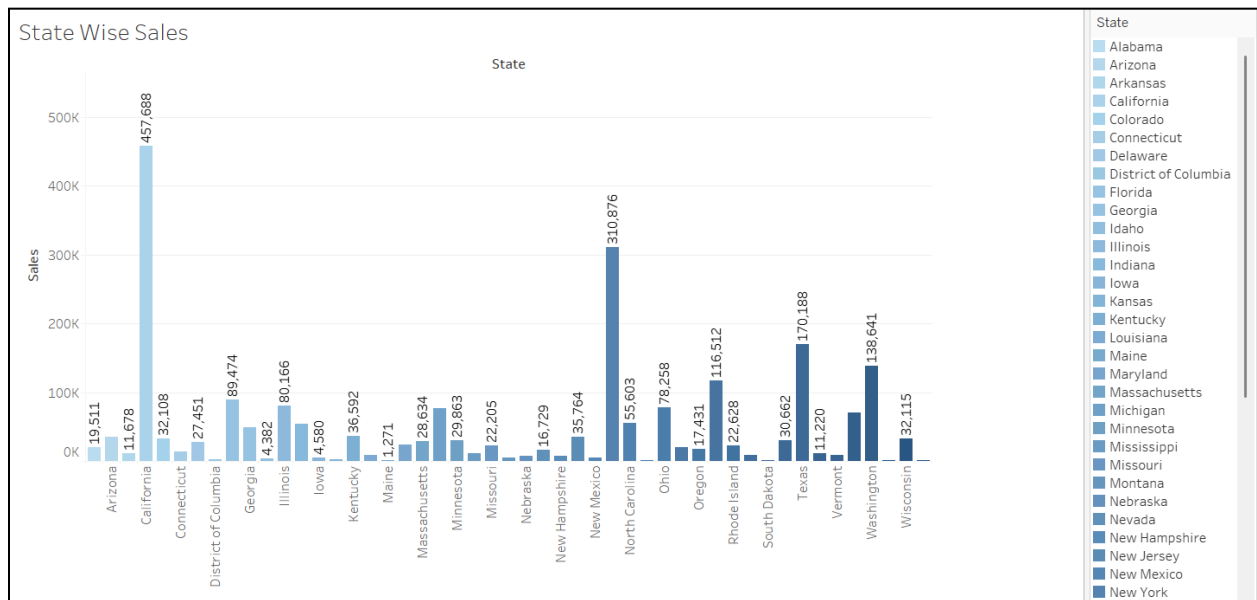
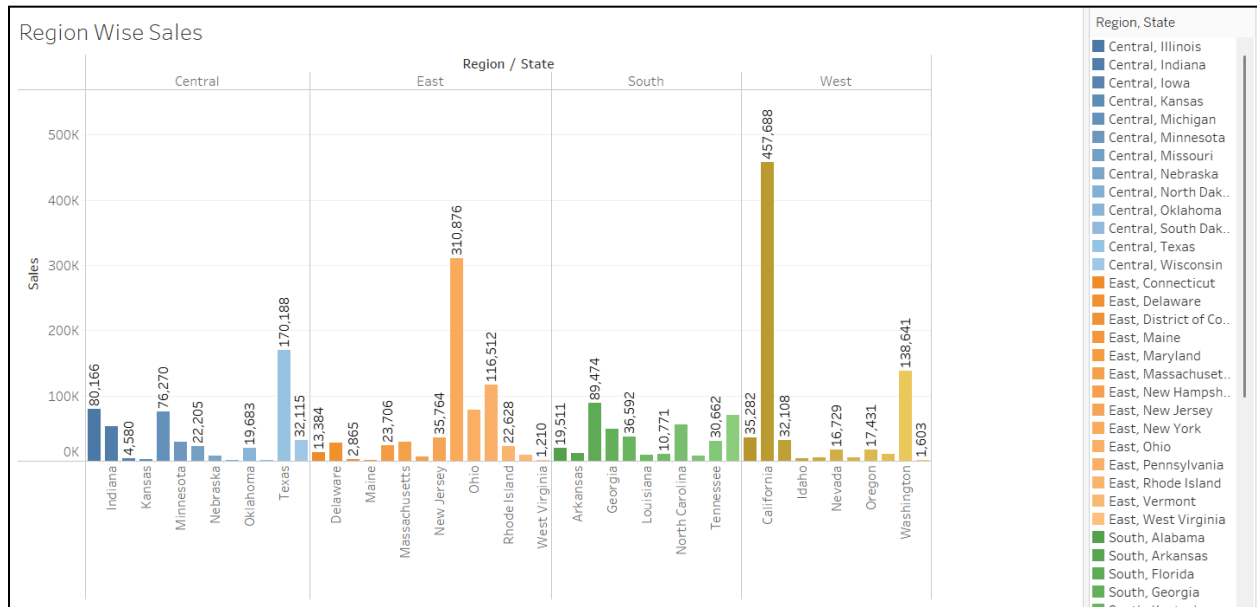
Technology leads in sales and profit.

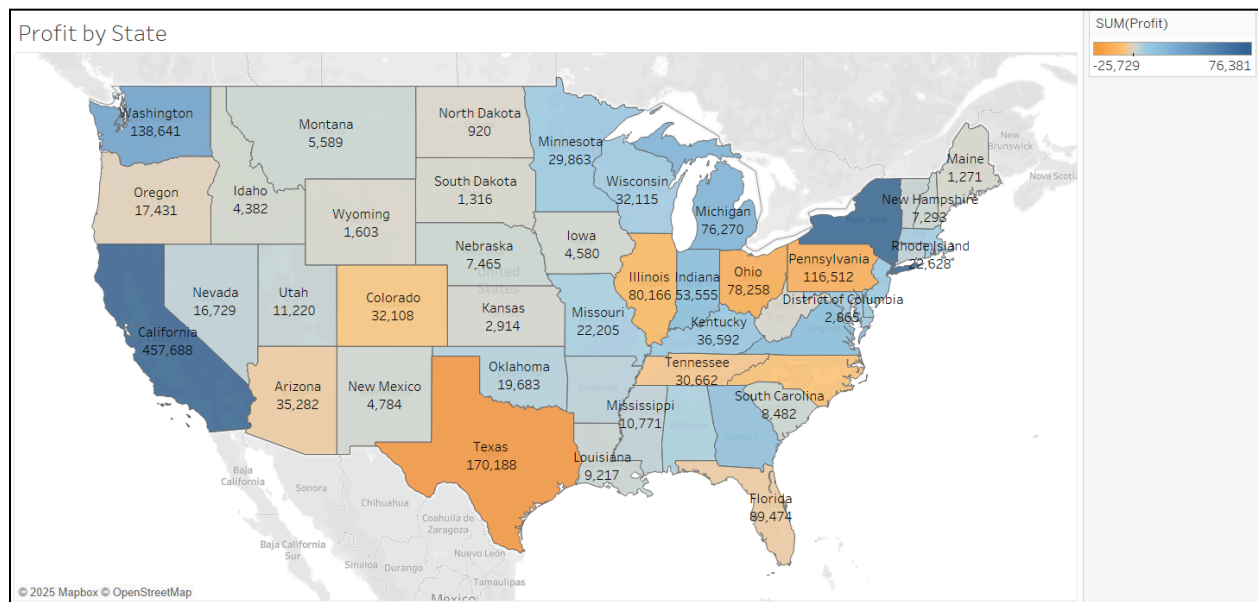
Furniture, especially *Tables*, drives losses — high sales, but deeply negative profit.

Office Supplies is steady and profitable despite lower sales.

Sales \neq Profit — We must revisit pricing & discounting, especially in Furniture.

Sales & Profit by Region

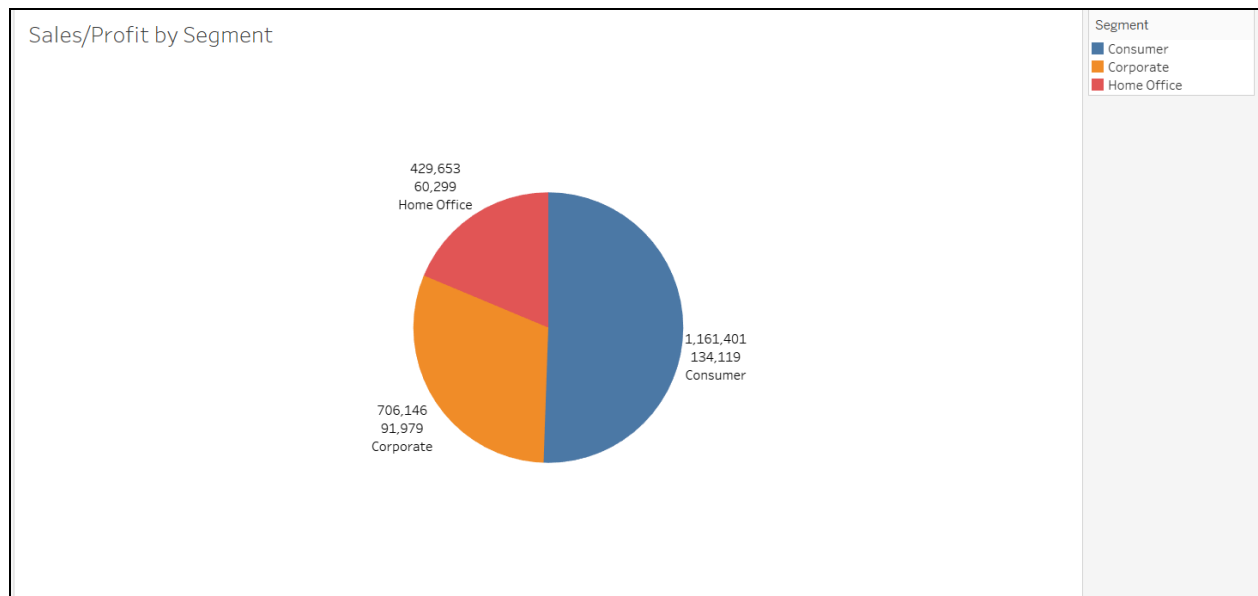




- West and East dominate in both sales and profit.
- South and Central regions underperform — less revenue and smaller profit margins.

"South & Central are potential growth zones with strategic focus."

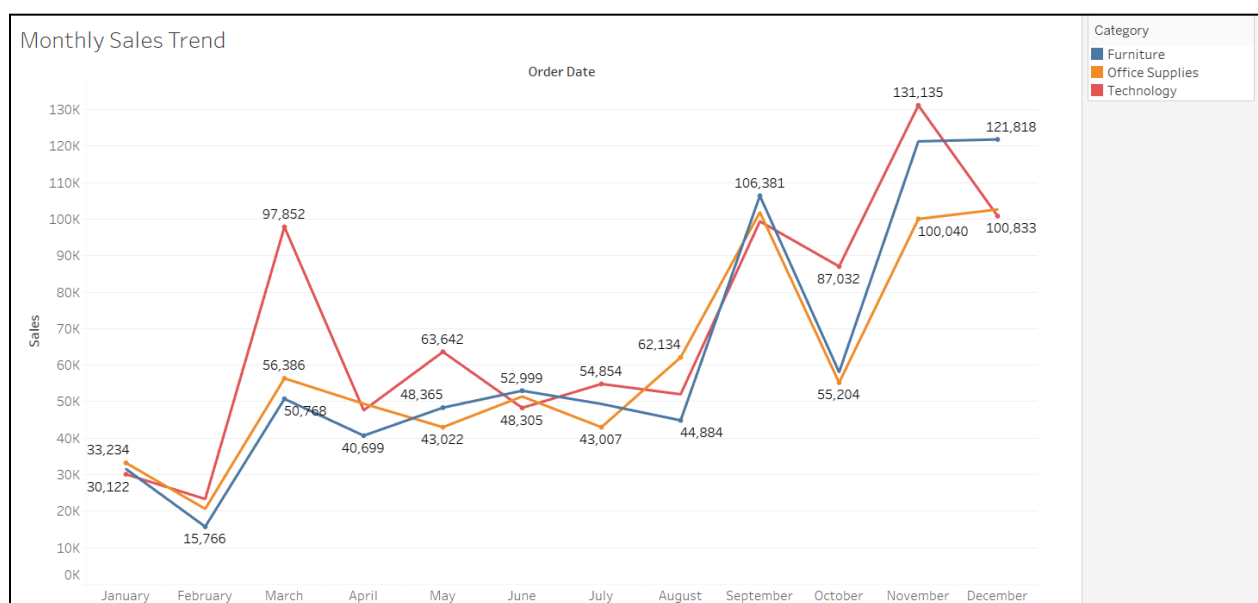
Segment-Wise Analysis



- Consumer segment brings the most sales.
- Corporate and Home Office segments are leaner but offer better profit ratios.

"A tailored marketing approach can boost margins in profitable customer segments."

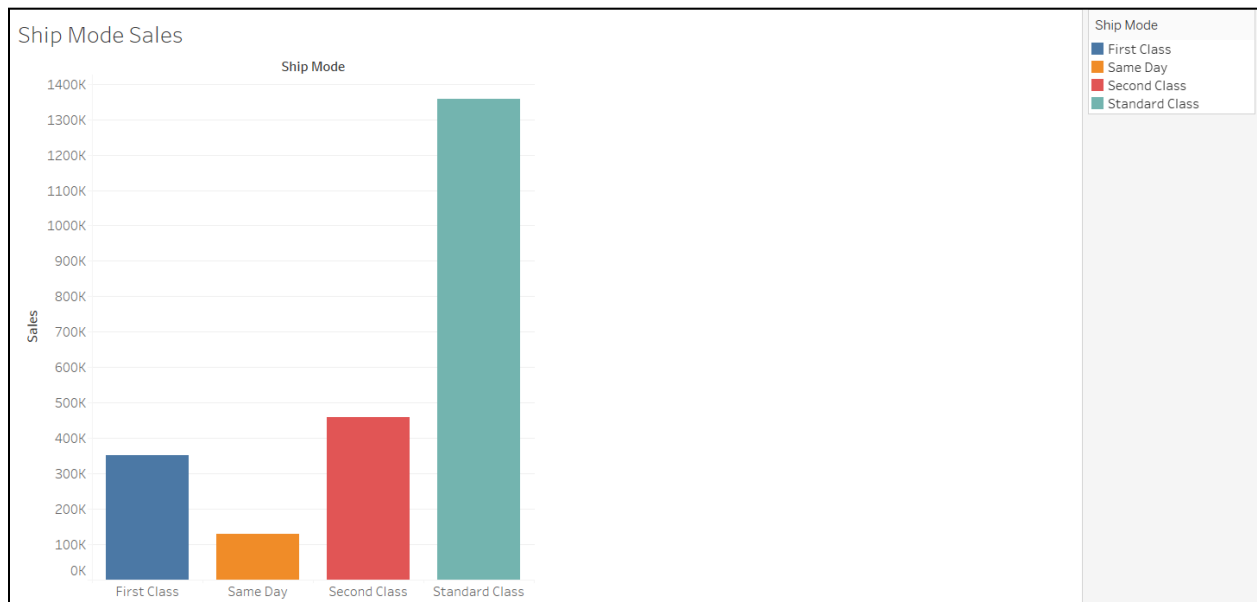
Monthly Sales and Profit Trend



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- End-of-year months (Q4) spike in sales.
 - However, profit often dips during those periods — likely due to discount campaigns.

"We need smarter promotions to ensure profit follows the sales surge."

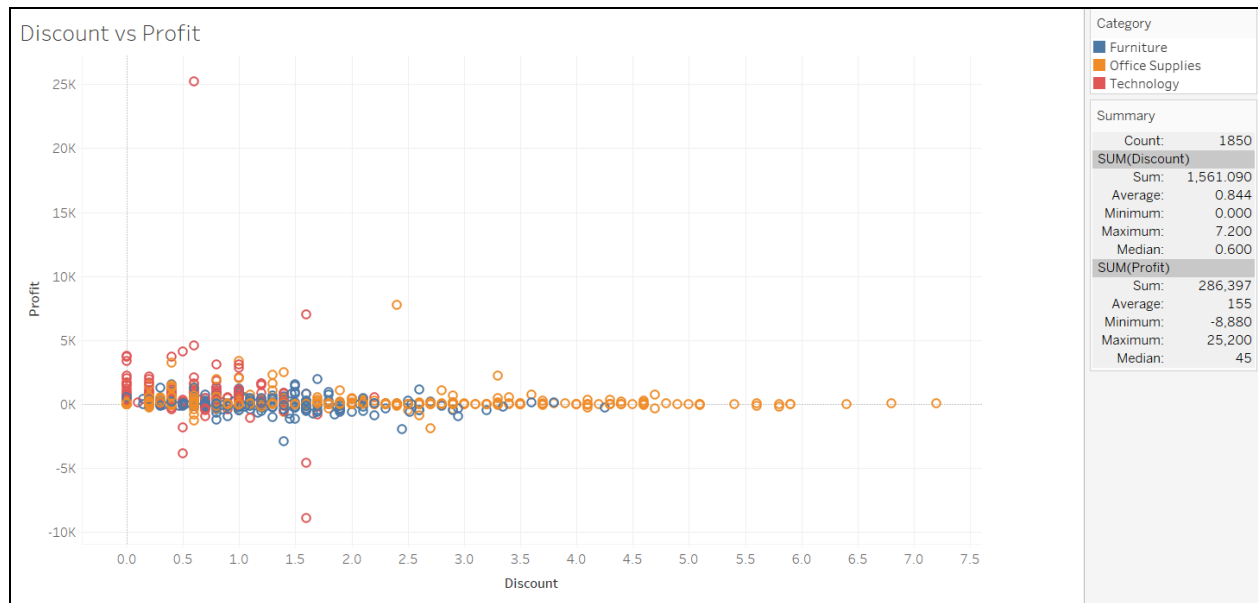
Shipping Modes



- Standard Class is most popular.
- Same Day has fewer orders but highest profit margin per order.

"We may benefit by incentivizing premium delivery options like Same Day."

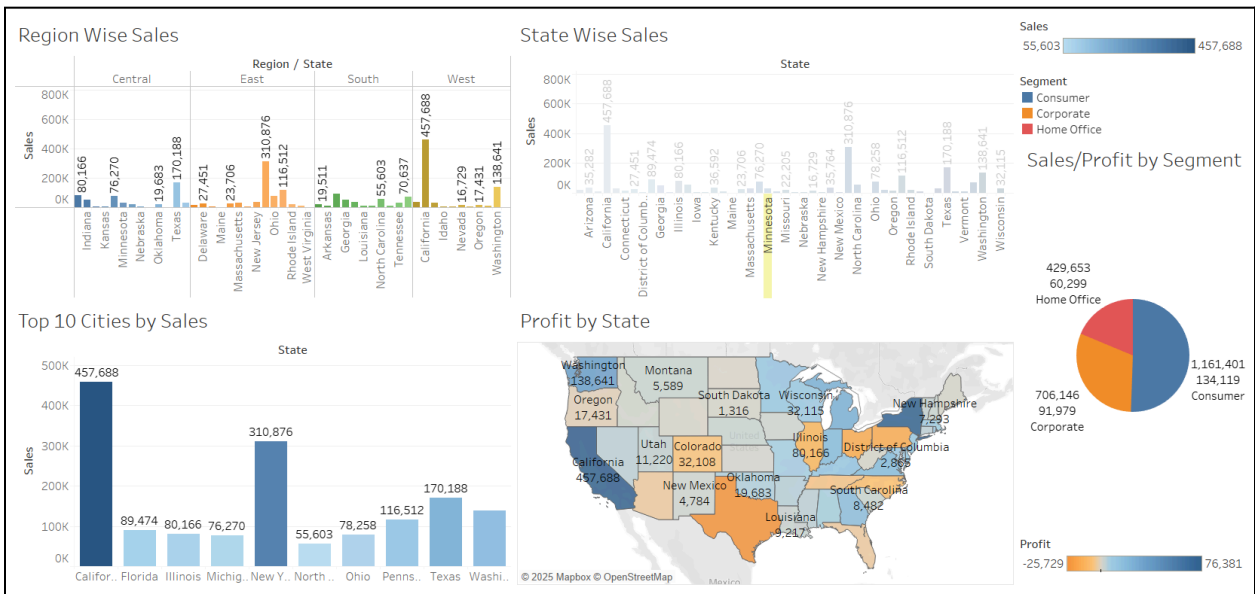
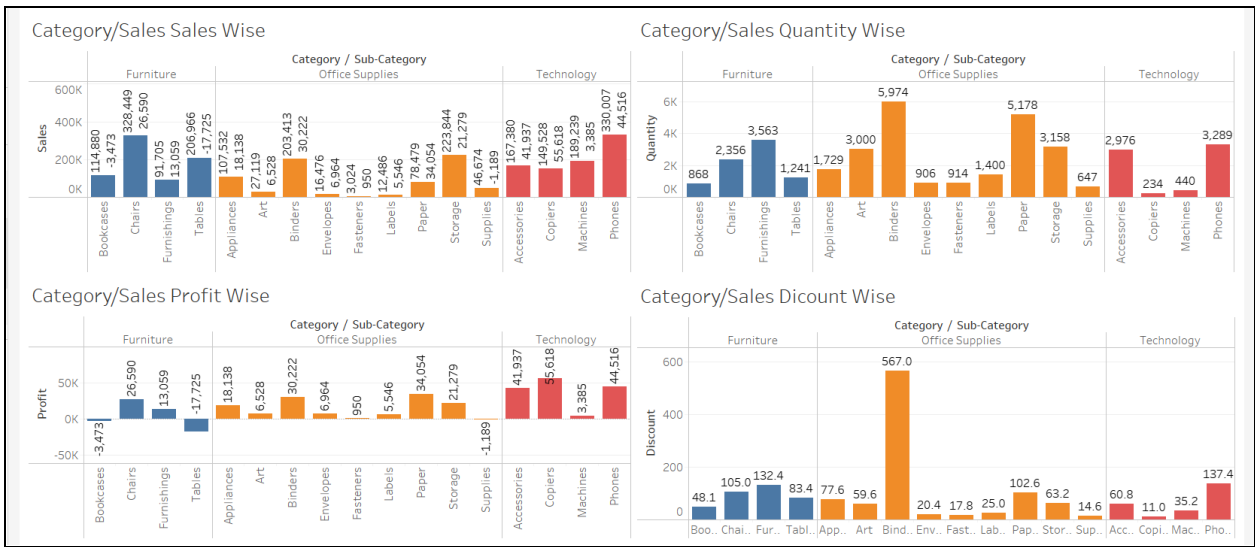
Discounts vs Profitability

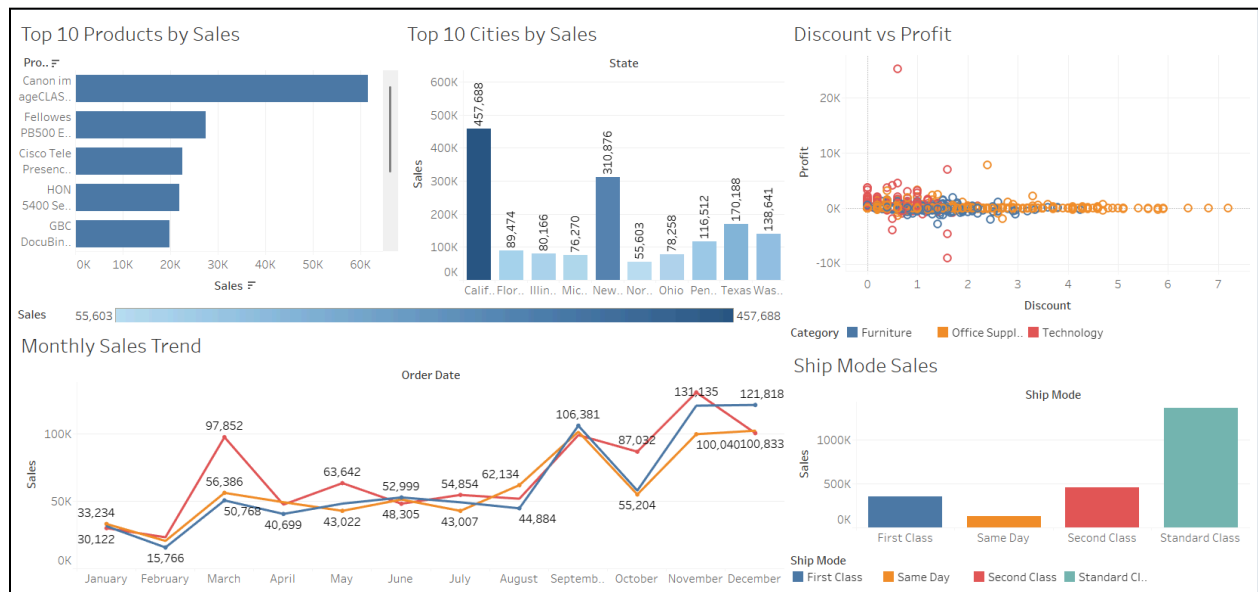


- Heavily discounted products, like *Tables*, show high sales but huge losses.
- Modestly discounted items retain healthy profit margins.

"Discounts should be strategic — not habitual."

Strategic Summary





“To wrap up, here’s the action plan driven by our data:”

- 1. Review loss-making sub-categories (esp. *Tables*).**
- 2. Design regional growth strategies for *South & Central*.**
- 3. Optimize year-end promotions for profitability.**
- 4. Promote profitable shipping methods.**
- 5. Implement segmented marketing campaigns.**
- 6. Reassess discounting strategies.**