DATA ANALYTICS PROJECT 4: RETAIL SALES ANALYSIS

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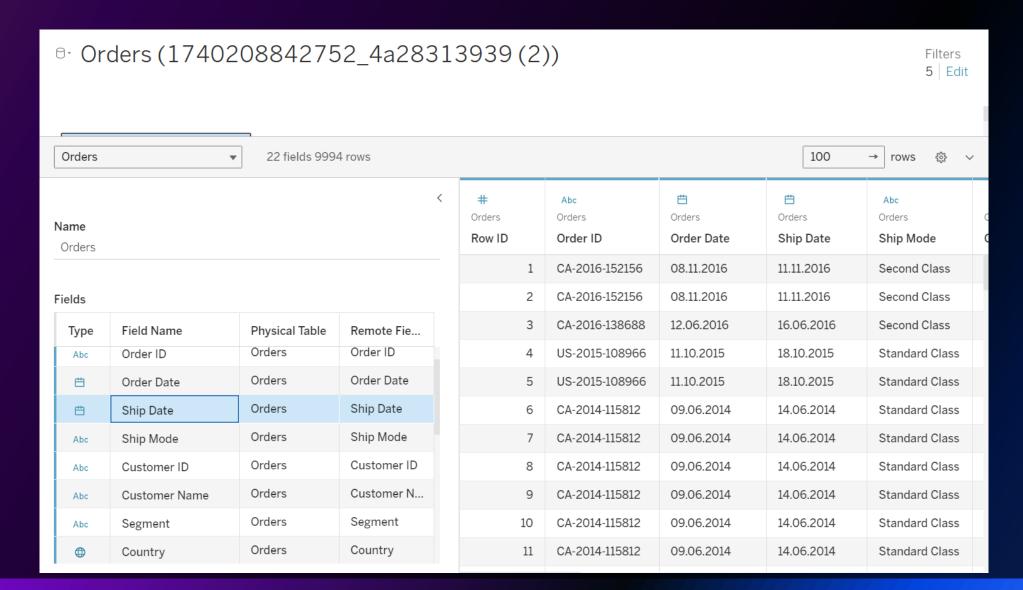
AGENDA

- Data exploration and preparation
- Sales by region
- Monthly sales trend
- Sales by product category
- Profit by state
- Sales vs profit
- Customer segment analysis
- Customer statistics
- Insights

About me:

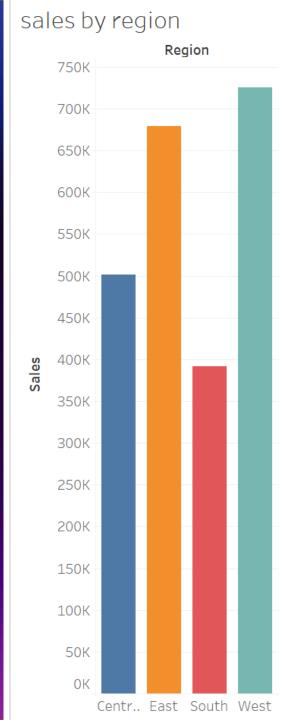
- Student at RWTH; currently a data analyst intern at Oeson.
- Certified in marketing data analysis

1. DATASET



SALES BY REGION

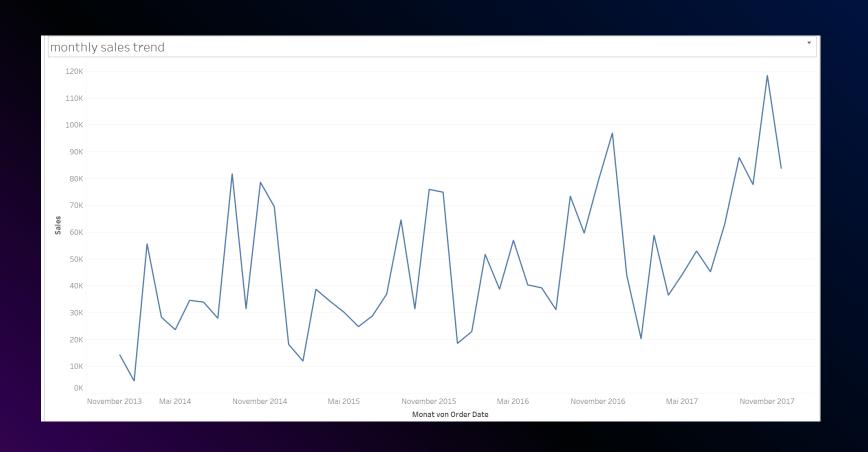
WEST AND THE EAST REGIONS TAKE THE LEAD.



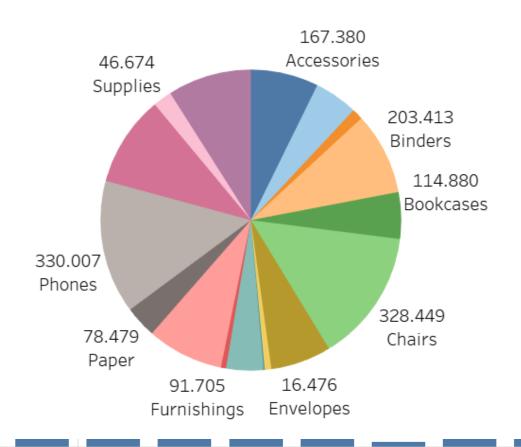
MONTHLY SALES TREND

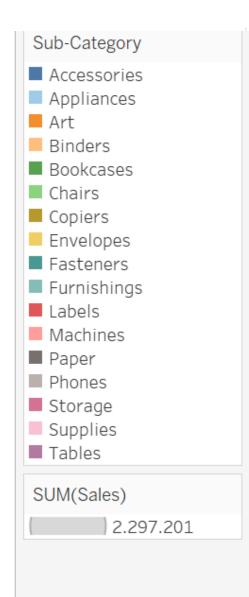


MONTHLY SALES TREND



sales by product category





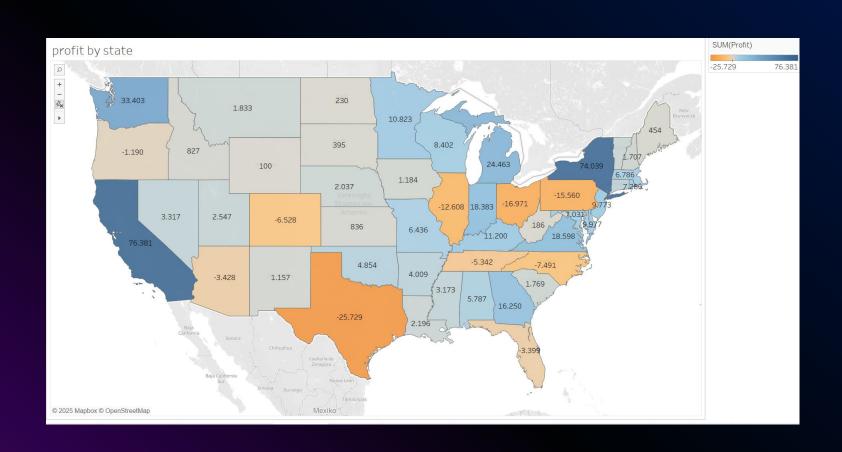
Machines

Phones

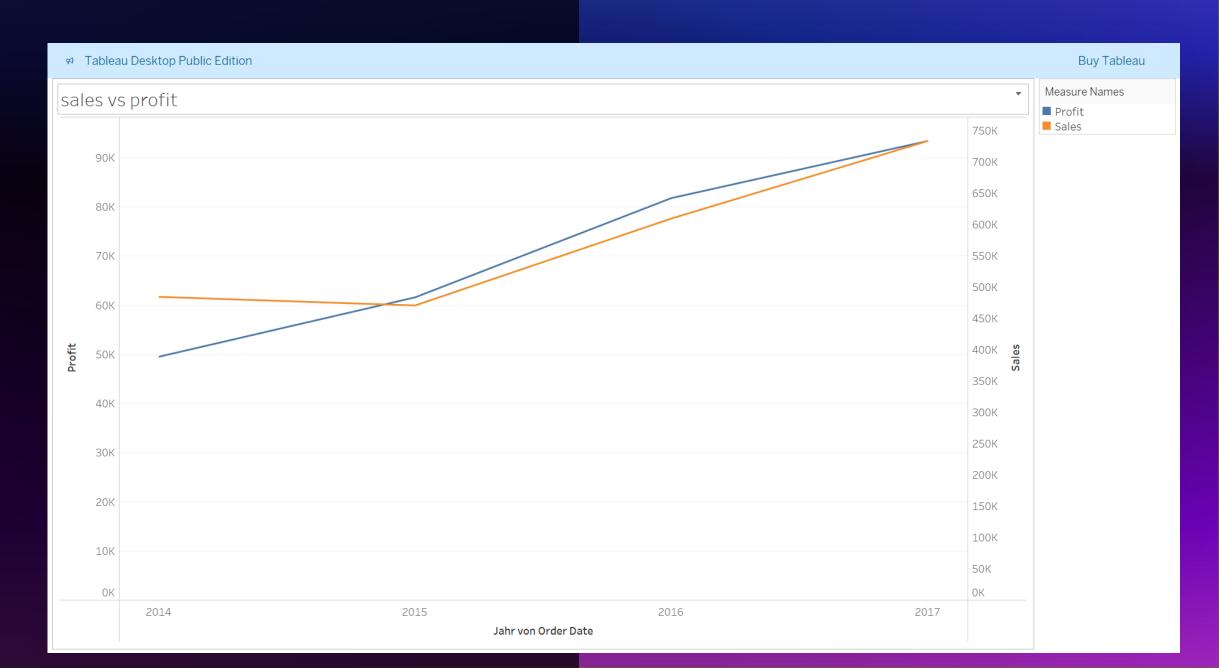
Bookcases Chairs Furnishings Tables Appliances Art Binders Envelopes Fasteners Labels Paper Storage Supplies Accessories Copiers

Orange = loss

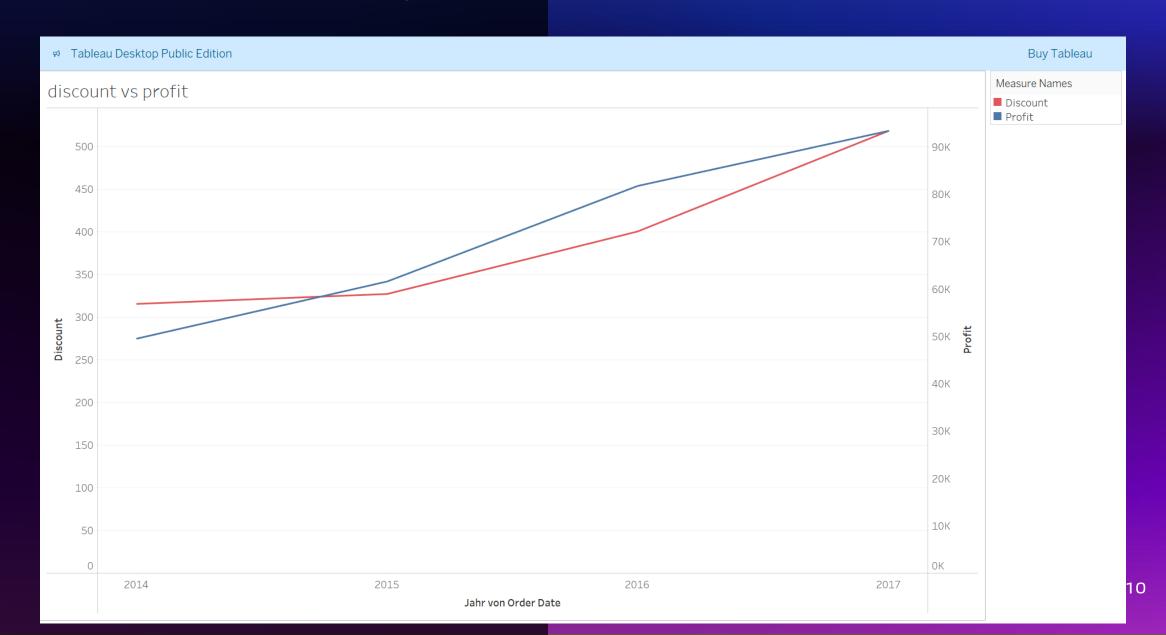
PROFIT BY STATE



Here is shown the relationship between the sales and profit.

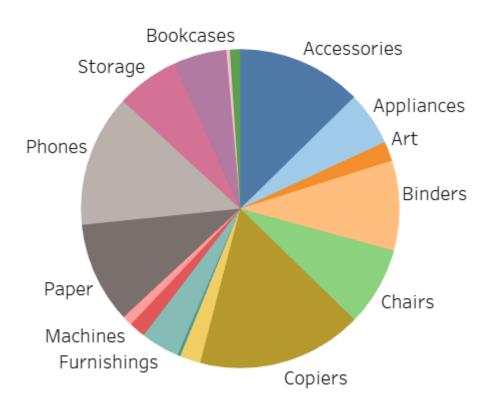


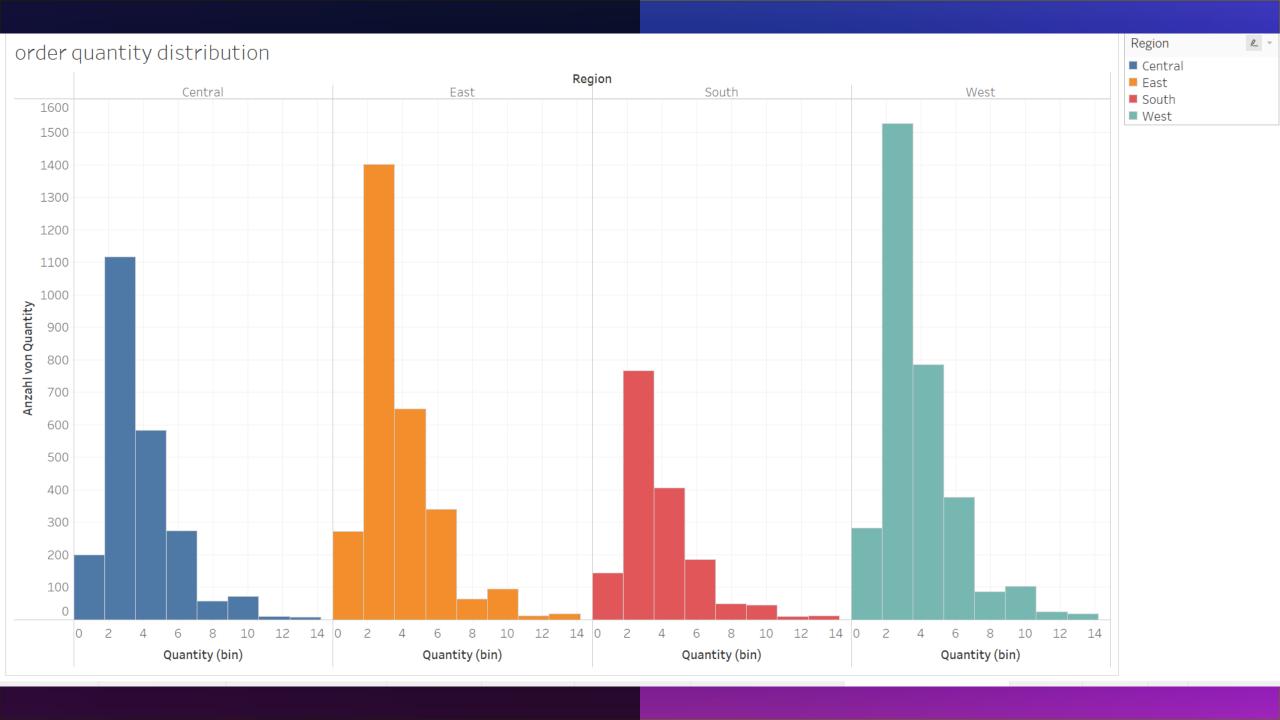
Here it can be seen the negative correlation between discounts and profit. The more discount, the more loss



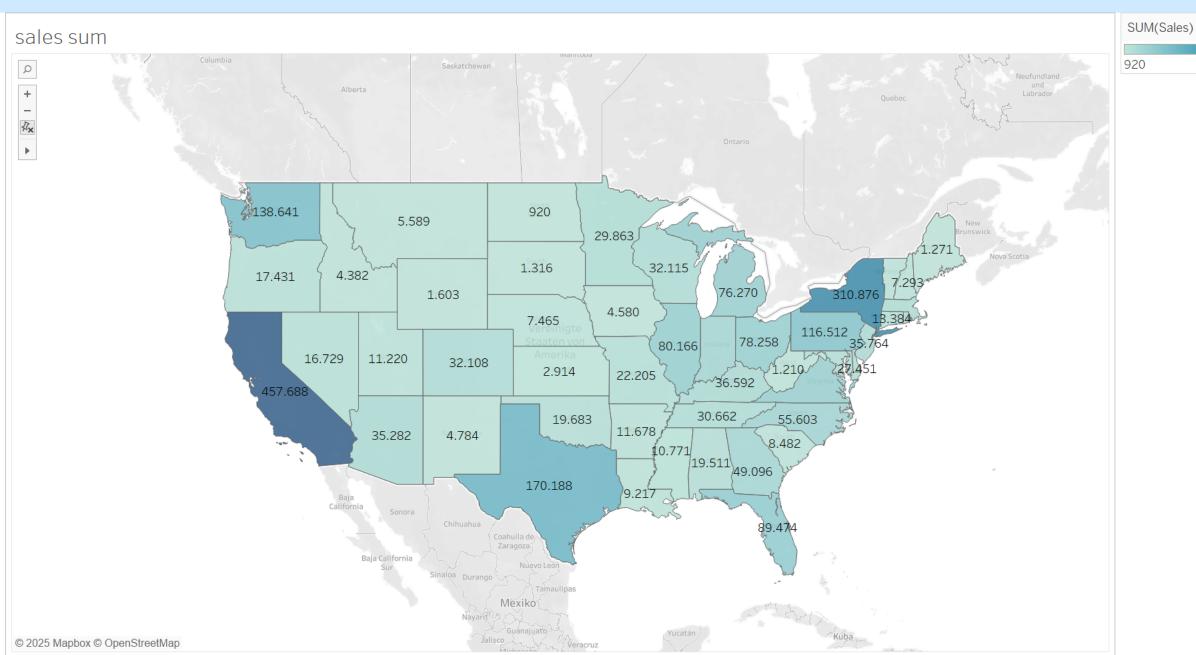
Here it is shown the profit by subcategory, the copiers play a huge role in the profits.

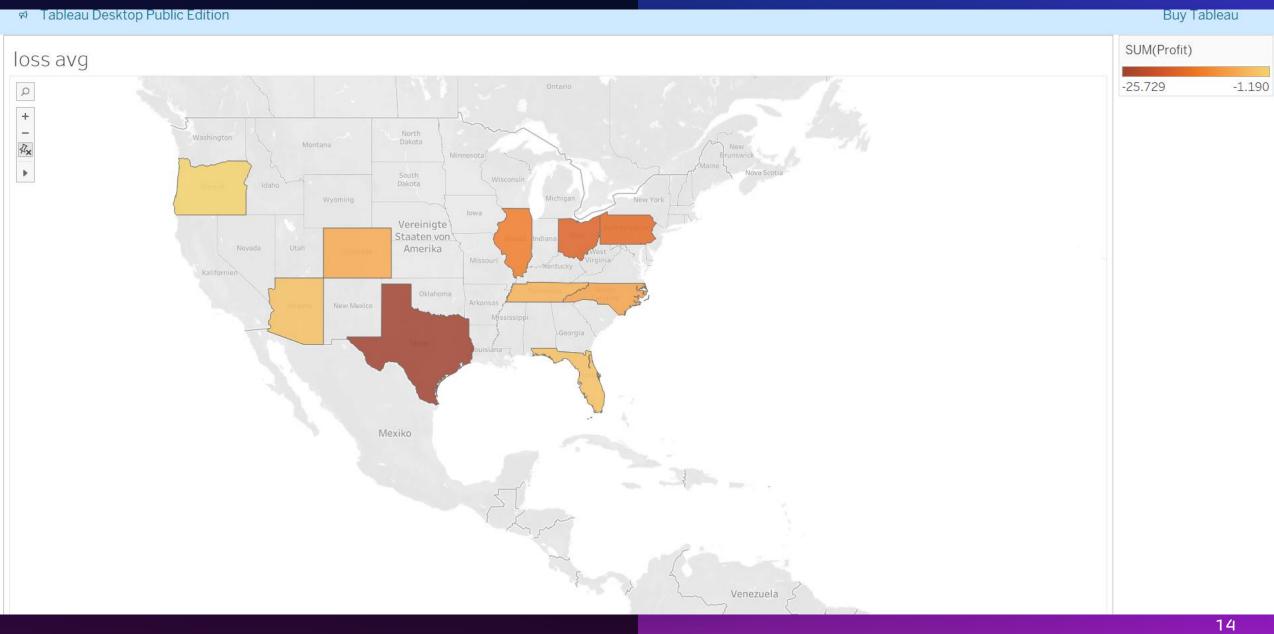


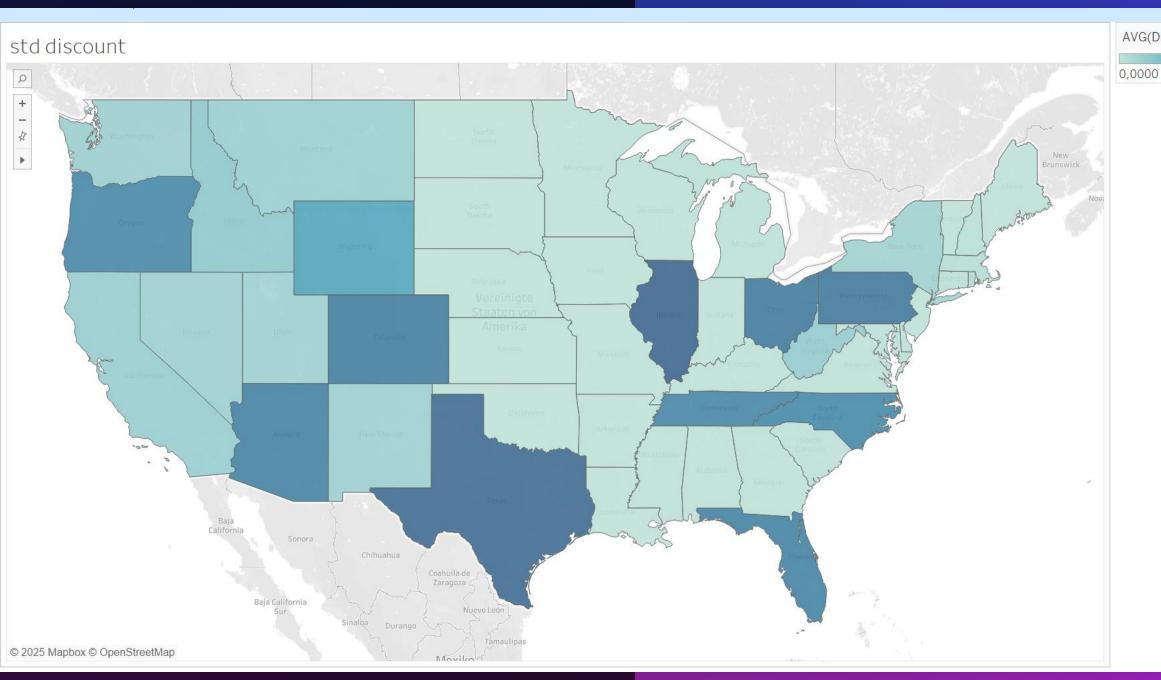




457.688

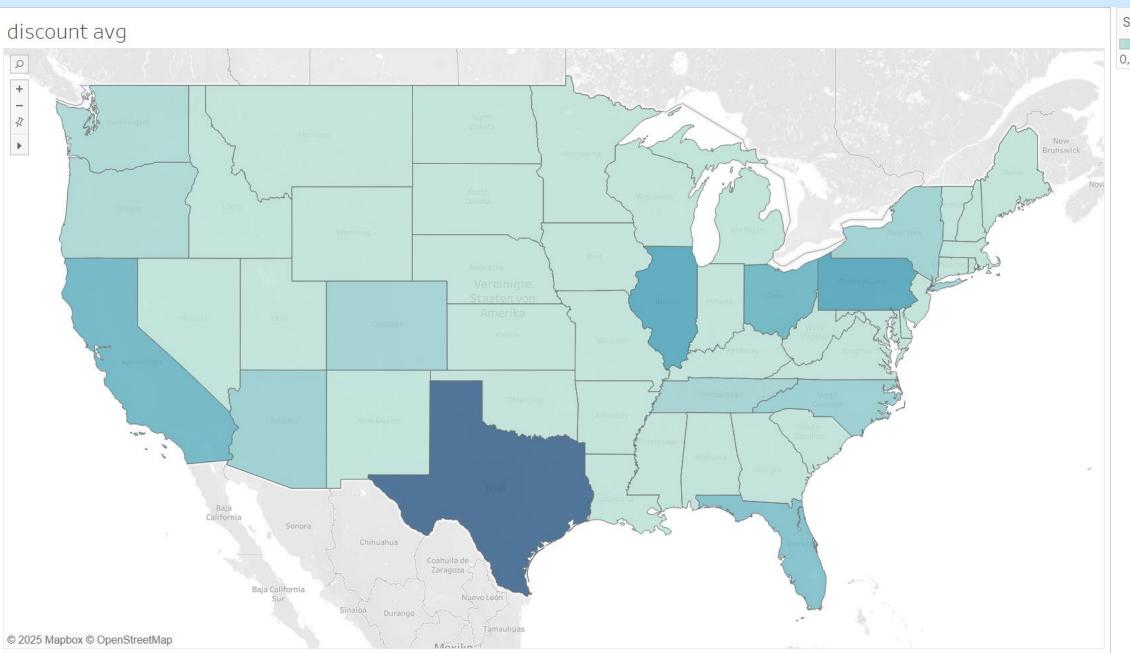






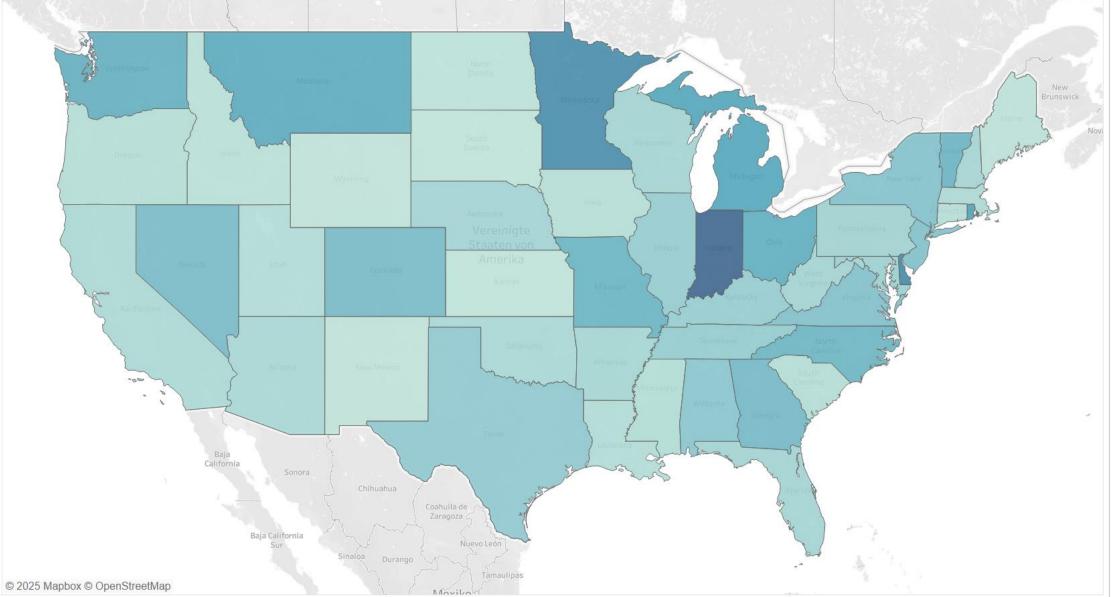
AVG(Discount) 0,3900

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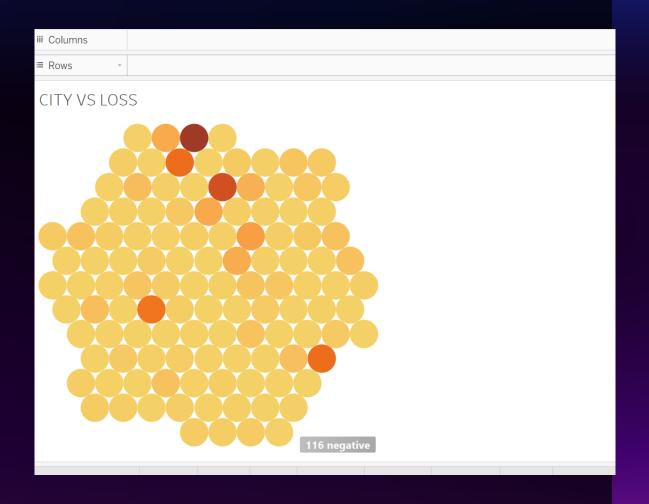


SUM(Discount)
0,0 364,6



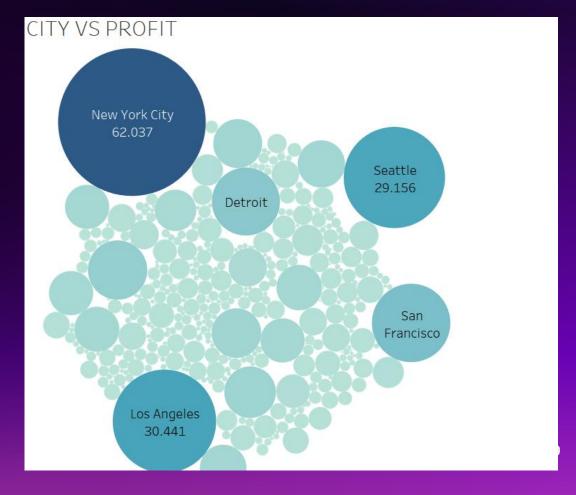






According to this bubble chart; Dallas, Chicago, San Antonio, Philadelphia and Phoenix are among the worst performing cities.

While NYC, Seattle, LA,SF, Detroit perform the best in nation



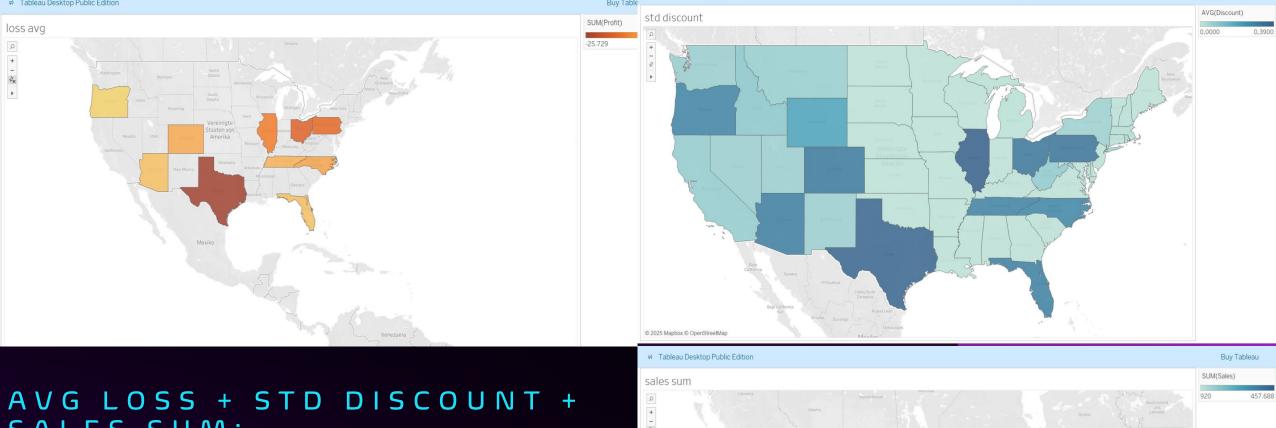
SEGMENT ANALYSIS

CONSUMERS >
CORPORATE > HOME
OFFICE RELATIONSHIP
CAN BE SEEN



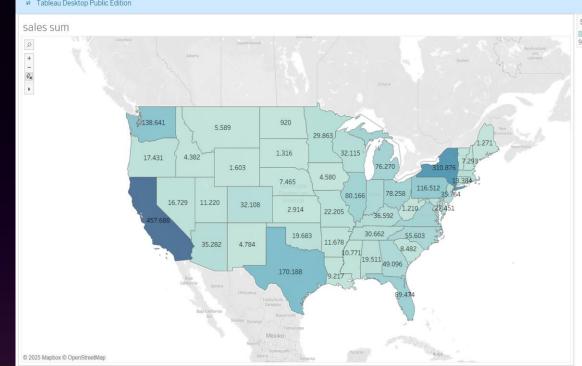
SALES SUMMARY, DATA PATTERNS, INSIGHTS

- There is a negative correlation between discounts and profit, the more discount the more loss. We can see that in major states like TX and IL there are also problems in Ohio, N.Carolina and Penn
- The more deviated the results from the average, the more relevant the issue gets. For example in discount rates, the more statistically deviated from the average, the more losses it brings.
- Sales are focused mainly on the west and east coasts. While major cities like Houston, Dallas, Austin and Chicago also have huge amount of sales.
- Copiers seems to have a competitive advantage for the company seen from the quantity profit discount relationships.
- Customers are mostly segmented at the coastal regions, and major cities.



SALES SUM:

- THIS DASHBOARD WOULD HELP BUSINESSES TO ANALYSE THEIR DATA REGION WISE AND MAKE DATA DRIVEN DECISIONS BASED ON THAT.



THANK YOU

NAZIM ATAKAN ERDOGAN