Results

According to table 1, California has the most sales and profit at 457,687 and 76,380 dollars following by New York at 310,876 and 75,038 dollars.

Sales		Profit		
State California New York Texas Washington Pennsylvania	457687.6315 310876.2710 170188.0458 138641.2700 116511.9140	State California New York Washington Michigan Virginia	76380.4163 74038.5486 33402.6517 24461.1876 18597.9504	
Table 1				

I also found that there are States that didn't do well at all but in the other hand, they're making a huge loss especially Texas and Pennsylvania which is in top 5 highest Sales.

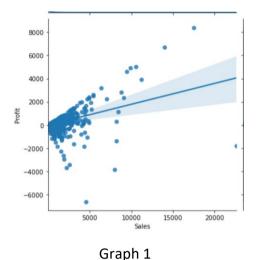
Sales		Profit		
State North Dakot West Virgir Maine South Dakot Wyoming	1209.824 1270.530	State Texas Ohio Pennsylvania Illinois North Carolina	-25729.3563 -16971.3766 -15559.9603 -12607.8870 -7490.9122	
Table 2				

I also found that discount doesn't affect the Quantity of Sales. According to table 3 which is showing the correlation between Quantity and Discount is at 0.0086 out of 1 which is very low combine with table 1 that is showing that even Texas and Pennsylvania is in the top 5 highest sales, but they didn't do well in making profit. With this result, both Sales and Marketing team must change the promotion price and budgets strategies to fix this problem.



Table 3

Another thing I found during the analysis is that sales and profit is correlated to each other showing on the line graph but according to graph 1 you'll see that there are a lot of sales that is a loss (profit in negative area)



With that, I decide to go and investigate the problem and found that Machines has the highest loss at 6,599.9 dollars. On the total loss profit, we see that Furniture has the highest loss rate at 69,936 dollars. With the result, I recommend reducing the cost of the product, increase the product price, and change the market strategy to fix this problem. I have conclude the analysis result in table 4

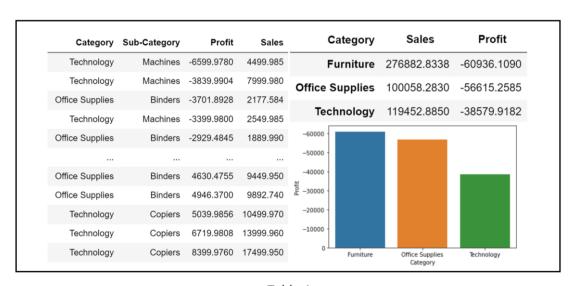


Table 4