Day 12

DIY 1

Q1. Problem Statement: Sales Data Analysis- I

Load the *"sample_superstore.csv"* dataset provided on LMS into a DataFrame, using the Matplotlib library, plot the following insights from the dataset:

1. Compare the total sales for each category of products
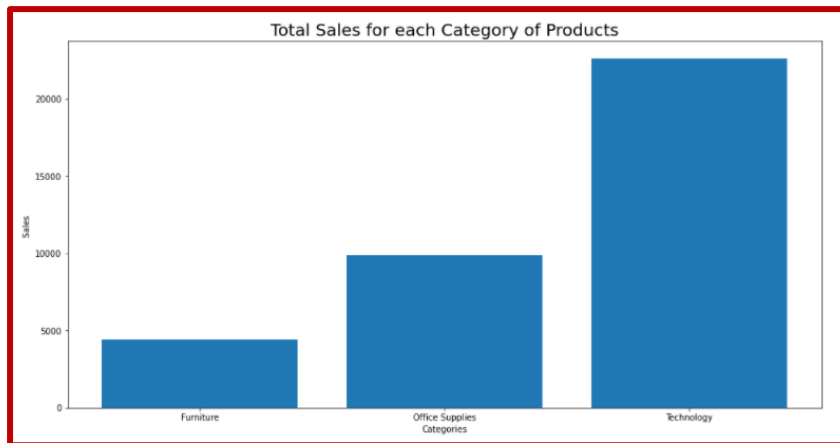
2. Number of deals in each state of America

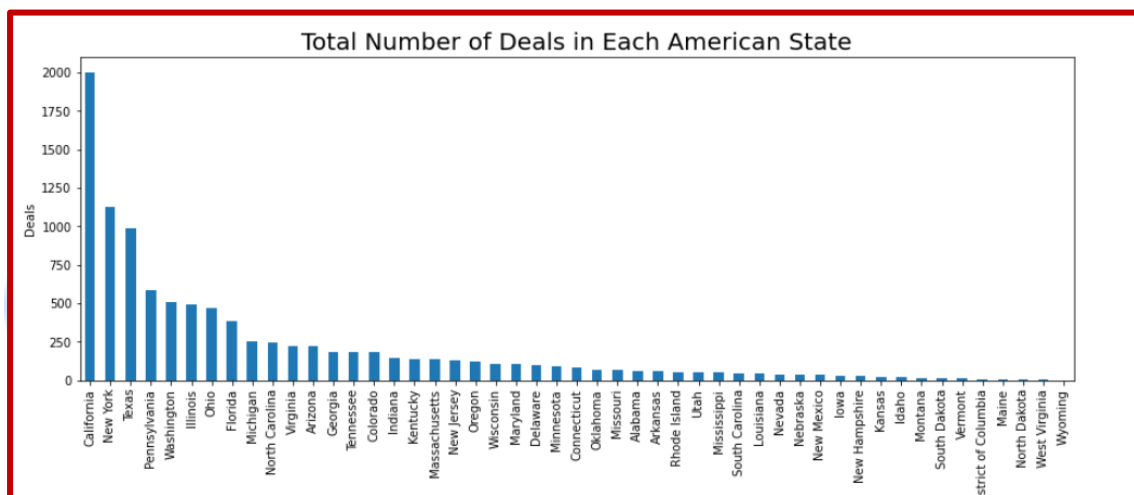**Note:** You can use any plot of your choice to show the insights

Dataset:

	Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Sales	Quantity	Discount	Profit
0	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Bookcases	261.9600	2	0.00	41.9136
1	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Chairs	731.9400	3	0.00	219.5820
2	Second Class	Corporate	United States	Los Angeles	California	90036	West	Office Supplies	Labels	14.6200	2	0.00	6.8714
3	Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Furniture	Tables	957.5775	5	0.45	-383.0310
4	Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Office Supplies	Storage	22.3680	2	0.20	2.5164

Sample Output:

1. Compare the total sales for each category of products

2. Number of deals in each state of America

Q2. Problem Statement: Data Grouping - II

Load the *"sample_superstore.csv"* dataset provided on LMS into a DataFrame; using the Seaborn library, plot the following insights from the dataset:
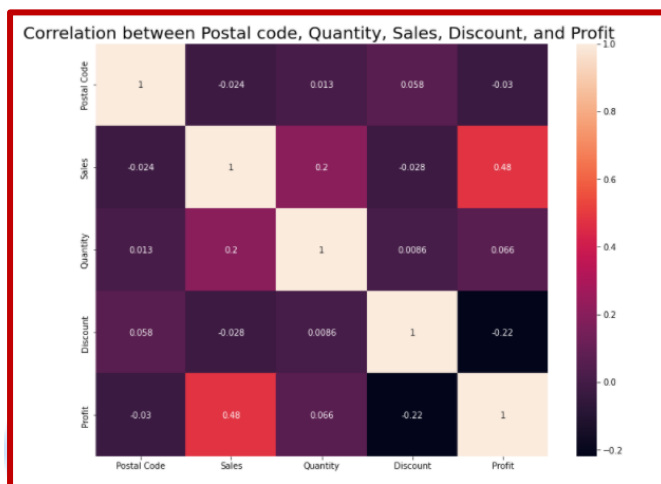
1. Print a correlation matrix between Postal code, Quantity, Sales, Discount, and Profit
2. Plot the correlation matrix using a heatmap

Note: You can use any plot of your choice to show the insights

Dataset:

	Ship Mode	Segment	Country	City	State	Postal Code	Region	Category	Sub-Category	Sales	Quantity	Discount	Profit
0	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Bookcases	261.9600	2	0.00	41.9136
1	Second Class	Consumer	United States	Henderson	Kentucky	42420	South	Furniture	Chairs	731.9400	3	0.00	219.5820
2	Second Class	Corporate	United States	Los Angeles	California	90036	West	Office Supplies	Labels	14.6200	2	0.00	6.8714
3	Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Furniture	Tables	957.5775	5	0.45	-383.0310
4	Standard Class	Consumer	United States	Fort Lauderdale	Florida	33311	South	Office Supplies	Storage	22.3680	2	0.20	2.5164

Sample Output: