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ADV Batch	E
Expt No	1

Aim: Create basic chart using PowerBi on E-commerce Dataset. Write observation of all given charts:- Bar, Pie, Histogram, Time-Line Chart and Scatter Plot and also calculate the Region Wise sales and Product Wise Sales

Description:
Superstore sales dataset
https://www.kaggle.com/datasets/rohitsahoo/sales-forecasting

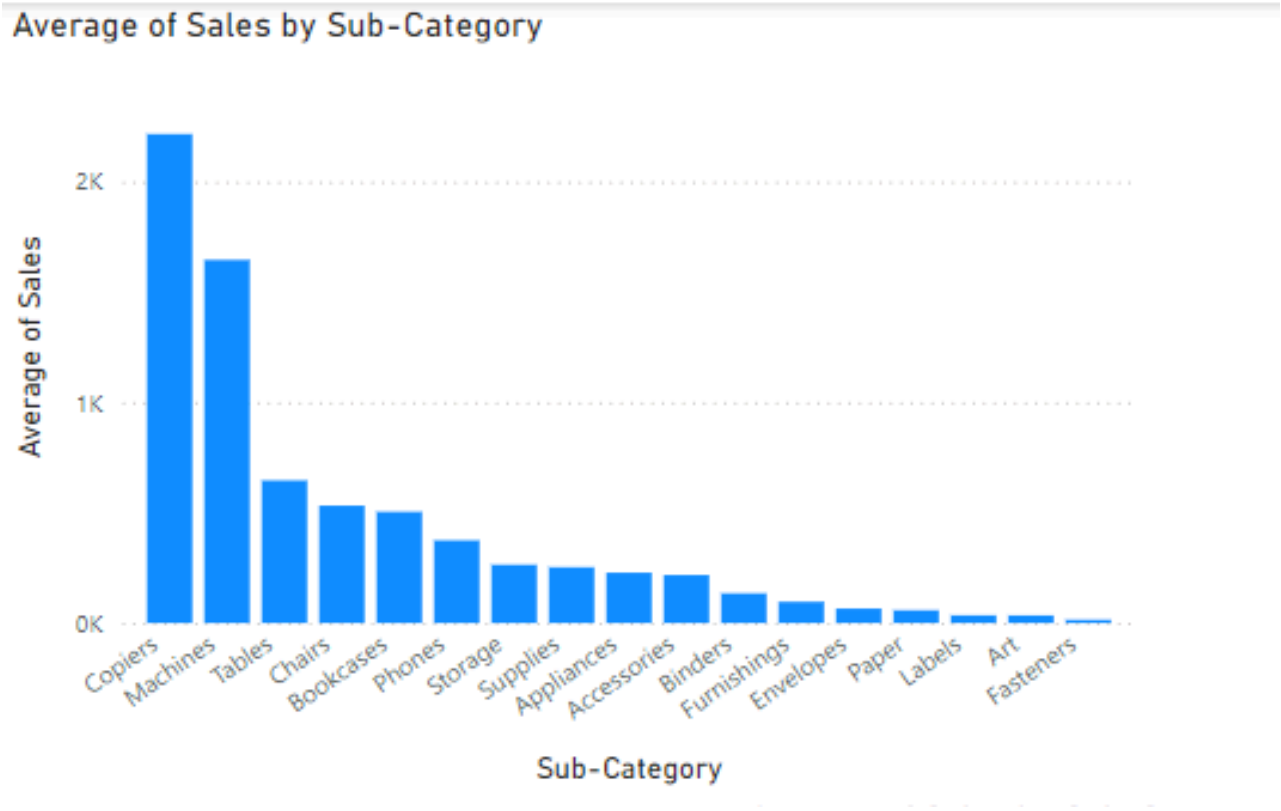
This dataset captures transactional data from a large retail superstore operating across various regions in the United States. The dataset includes detailed information about sales orders, providing insights into customer behavior, shipping details, and product performance. Below is a brief overview of each column included in the dataset:

1. Row ID: A unique identifier for each row in the dataset.
2. Order ID: A unique identifier for each order placed by customers.
3. Order Date: The date on which the order was placed.
4. Ship Date: The date on which the order was shipped to the customer.
5. Ship Mode: The shipping method used to deliver the order (e.g., Standard Class, Express Shipping).
6. Customer ID: A unique identifier for each customer making the purchase.
7. Customer Name: The name of the customer who placed the order.
8. Segment: The market segment to which the customer belongs (e.g., Consumer, Corporate, Home Office).
9. Country: The country where the customer is located (all entries are from the United States in this dataset).
10. City: The city where the customer is located.
11. State: The state where the customer is located.
12. Postal Code: The postal code of the customer's location.
13. Region: The geographical region within the country where the customer is located (e.g., East, West, Central, South).
14. Product ID: A unique identifier for each product.

15. Category: The broad category of the product (e.g., Furniture, Office Supplies, Technology).
16. Sub-Category: The specific sub-category within the product category (e.g., Chairs, Binders, Laptops).
17. Product Name: The name of the product being sold.
18. Sales: The total sales amount for the product in the transaction.

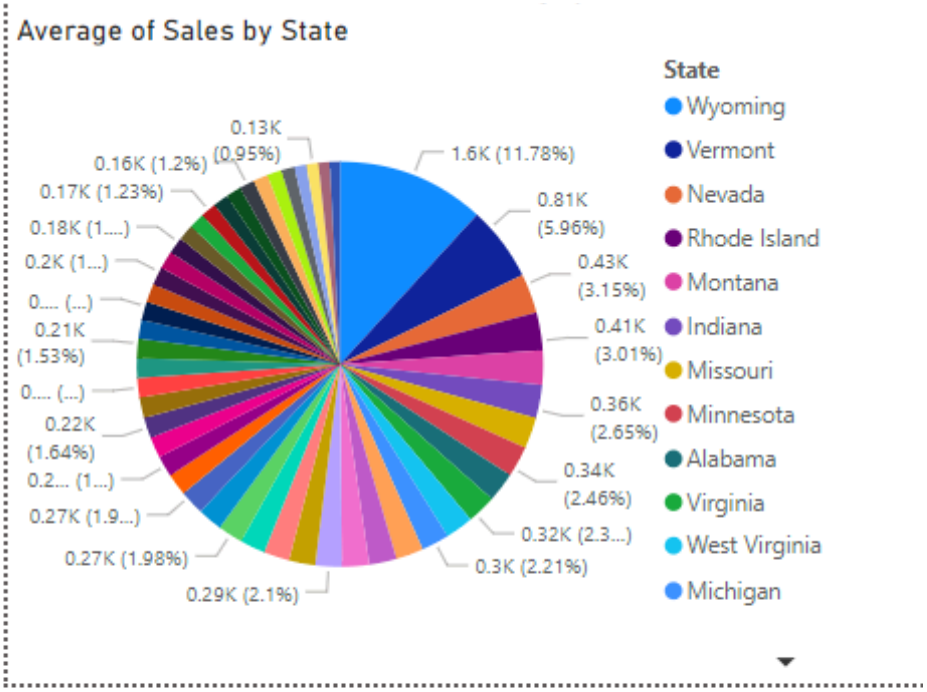
Graphs and Observations:

1. Bar Chart



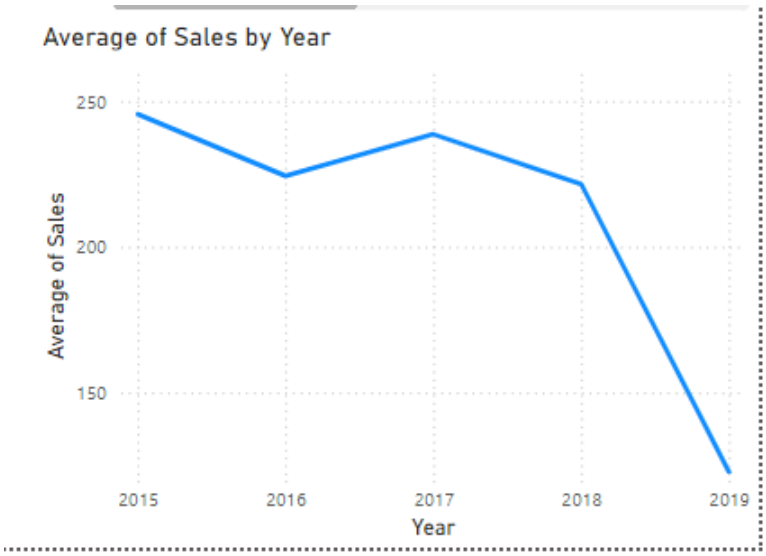
The bar chart shows the average of sales by sub-category. Here it is clearly visible that the sub-category copiers has had the highest sales then all the others

2. Pie Chart



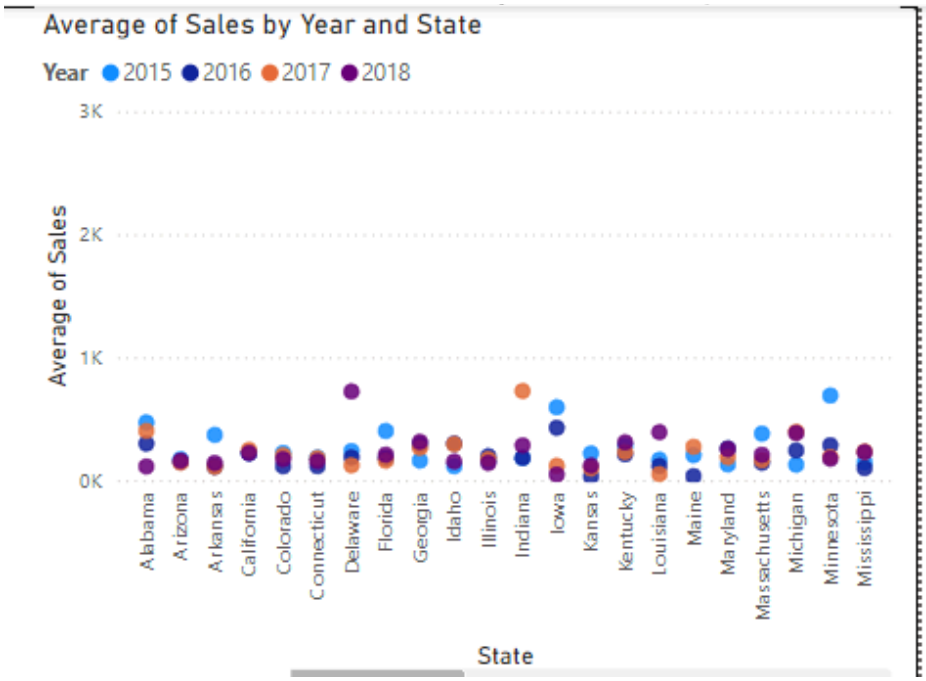
The above is a pie chart that categorises sales statewise. The amount of sales in wyoming has been higher with a percentage of 11.78%

3. TimeLine Chart



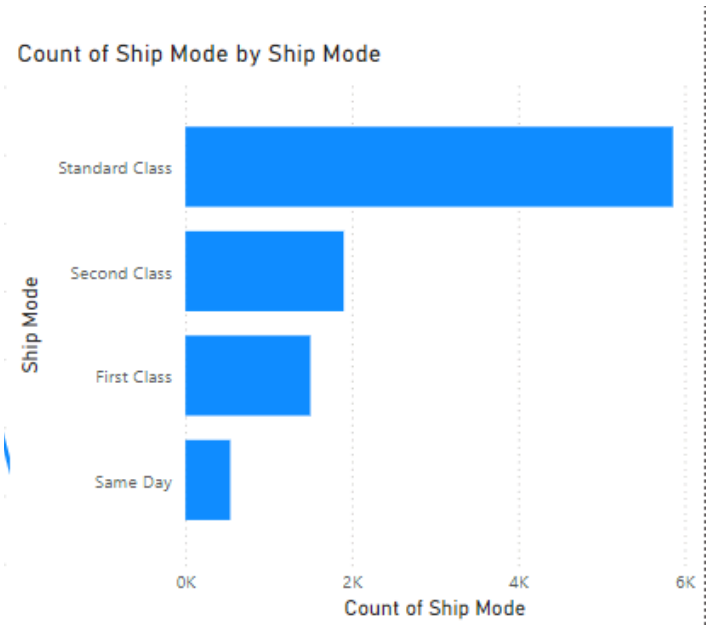
The Sales dropped from the year 2017 onwards

4. Scatter Plot



This graph simply shows the average sales with respect to the year in the mentioned States. The sales in the year 2015 were highest in Minnesota

5. Histogram



This graph shows the Frequency of ship modes

Conclusion: With the help of PowerBi i was able to visualize the ecommerce dataset SuperStore sales across the US and also understood the use of different graphs.