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Aim: Create basic chart using Power BI to be performed on E-commerce Dataset.Calculate Region wise sale, category wise sale and write observation of Bar chart , Pie chart, Histogram, Time Line Chart and Scatter Plot.

Description:

Dataset used is Amazon Sales Report Dataset available at
https://www.kaggle.com/datasets/mdsazzatsardar/amazonsalesreport

Following are the columns in the dataset:

1. Index: A numerical identifier for each record.

2. Order ID: A unique identifier for each order.

3. Date: The date the order was placed, formatted as MM-DD-YY.

4. Status: The current status of the order (e.g., "Cancelled", "Shipped - Delivered to Buyer").

5. Fulfilment: The type of fulfilment (e.g., "Merchant", indicating the merchant handled fulfilment).

6. Sales Channel: The platform through which the sale was made (e.g., "Amazon.in").

7. ship-service-level: The shipping method used (e.g., "Standard").

8. Style: The style or type of the product (e.g., "SET389").

9. SKU: Stock Keeping Unit, a unique identifier for each product variant (e.g., "SET389-KR-NP-S").

10. Category: The category of the product (e.g., "Set").

11. Size: The size of the product (e.g., "S", "3XL").

12. ASIN: Amazon Standard Identification Number, a unique identifier for products on Amazon (e.g., "B09KXVBD7Z").

13. Courier Status: The status of the shipping courier (e.g., "Shipped").

14. Qty: Quantity of items ordered (e.g., "1").

15. currency: The currency used for the transaction (e.g., "INR" for Indian Rupees).

16. Amount: The total amount for the transaction (e.g., "647.62 INR").

17. ship-city: The city where the order was shipped (e.g., "MUMBAI").

18. ship-state: The state where the order was shipped (e.g., "MAHARASHTRA").

19. ship-postal-code: The postal code for the shipping address (e.g., "400081.0").

20. ship-country: The country where the order was shipped (e.g., "IN" for India).

21. promotion-ids: Identifiers for any promotions applied to the order (e.g., a list of promotional codes).

22. B2B: A boolean indicating if the order is a Business-to-Business transaction (e.g., "False").

23. fulfilled-by: Indicates who fulfilled the order (e.g., "Easy Ship").

24. Unnamed: 22: An additional unnamed column which may contain irrelevant or extraneous data.
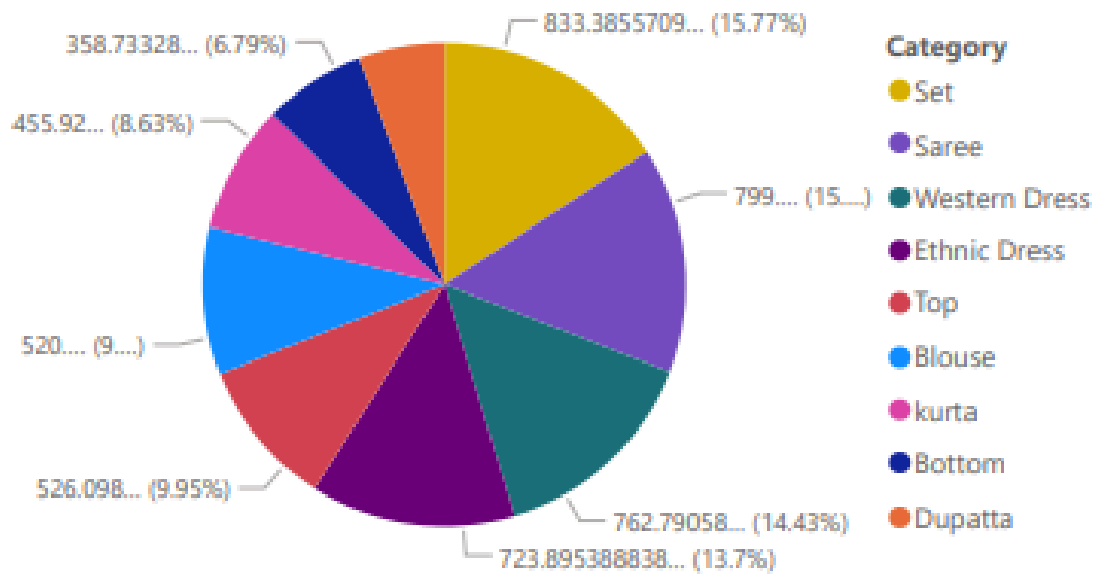
Graphs and Observation:

Bar Chart:
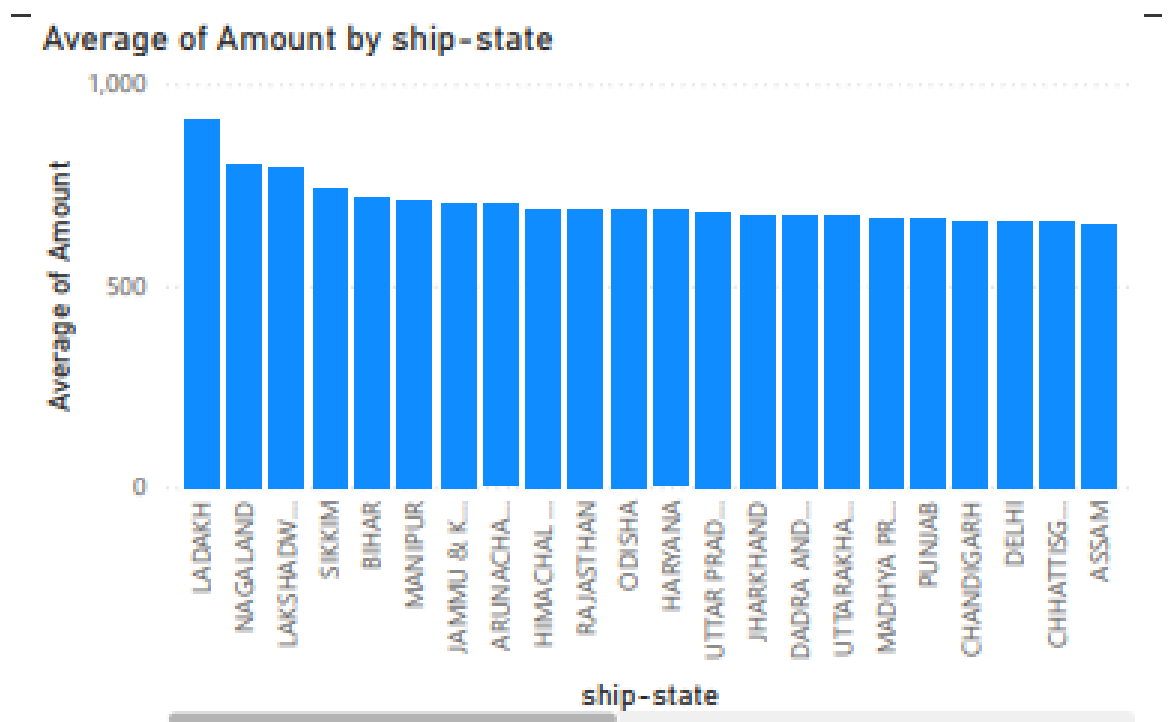
The bar chart shows the average amount of sales for every state.Ladakh is the region with the maximum amount of average sales during the time period considered.
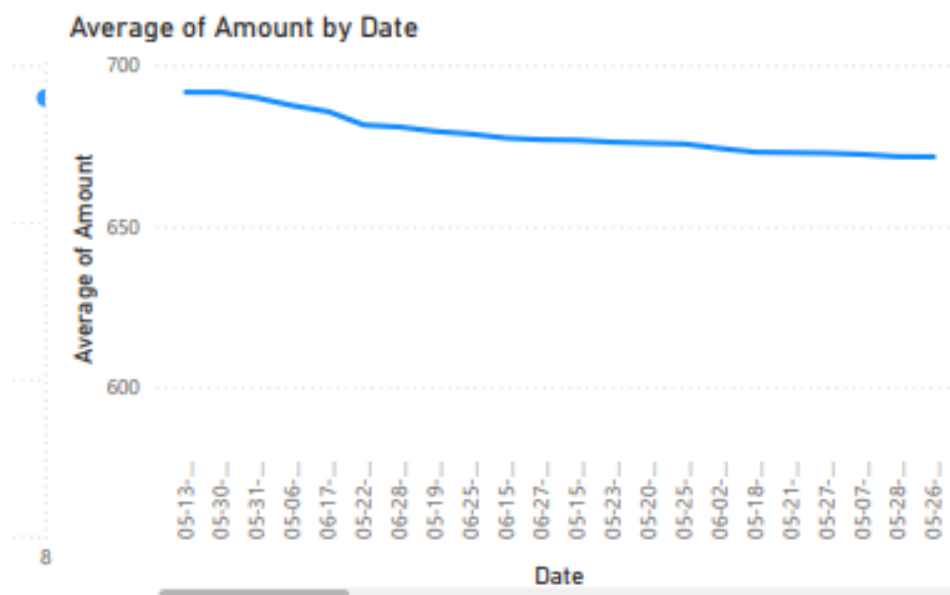
Pie Chart:

Average of Amount by Category

833.3855709... (15.77%)

358.73328... (6.79%)

455.92... (8.63%)

799.... (15...)

Category
- Set
- Saree
- Western Dress
- Ethnic Dress
- Top
- Blouse
- kurta
- Bottom
- Dupatta

520.... (9....)

526.098... (9.95%)

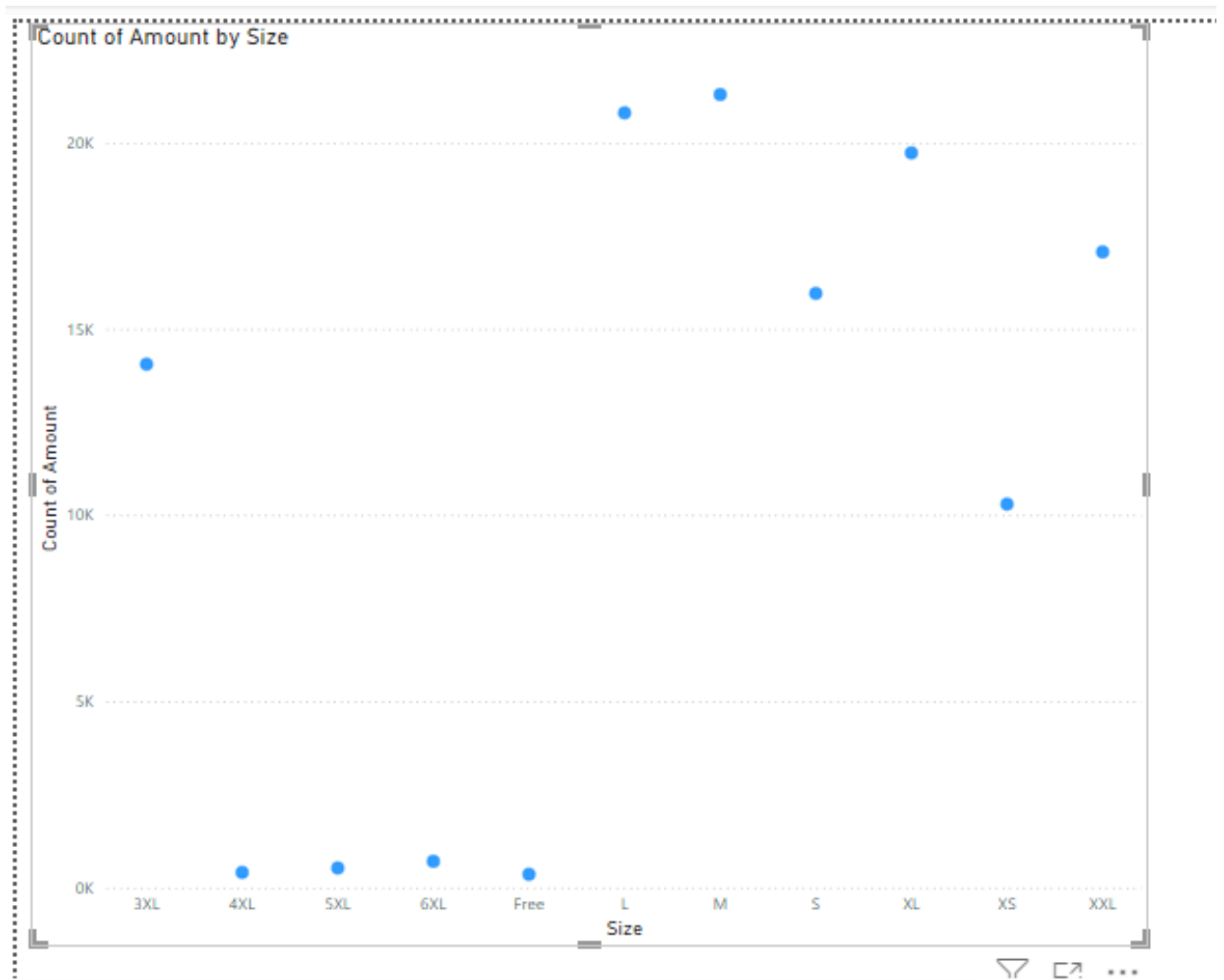762.79058... (14.43%)

723.895388838... (13.7%)

The pie chart shows the distribution of the amount of sales of clothes for the various categories of products(clothes).The clothes under the set category bagged the highest amount of Sales. Saree, Western Dress and Ethnic dress also offered competitive amount of sales.

Line Plot:

Average of Amount by Date

700

650

600

Average of Amount

8

05-13- 05-30- 05-31- 05-06- 06-17- 05-22- 06-28- 05-19- 06-25- 06-15- 06-27- 05-15- 05-23- 05-20- 05-25- 06-02- 05-18- 05-21- 05-27- 05-07- 05-28- 05-26-

Date

The overall average amount of sales over the days is decreasing.

Scatter Plot:

Count of Amount by Size

Clothes with size M are sold the most. Sizes 4XL , 5XL , 6XL and free are sold in very less number.

Clustered Bar Chart:
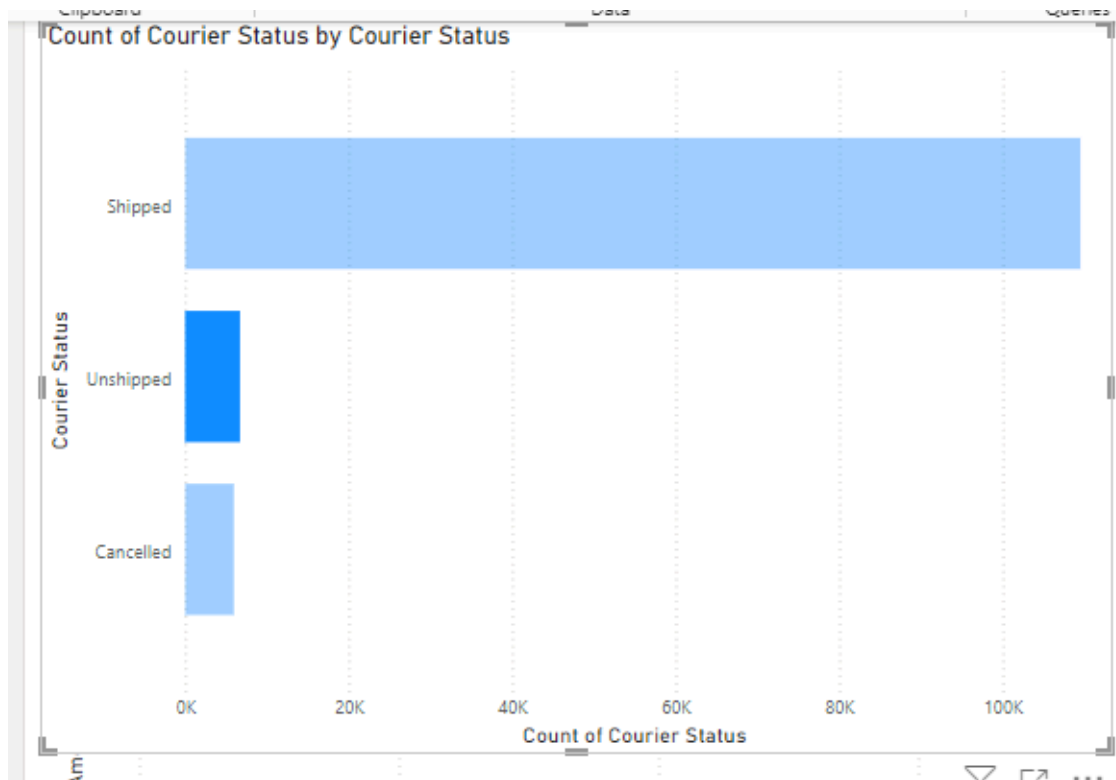
The graph shows the frequency or count of all types of courier status. Unshipped and cancelled orders are very less and most of the orders were shipped successfully.

Conclusion:

We learnt to use the power BI tool and got to know how to visualize various graphs/charts.