

We have 3 weak areas Tables, Supplies and Bookcases as we are facing loss on the sales of these items. On the sales of tables we are facing highest loss.

In [48]: #Count plot for region and ship mode

plt.ylabel('Count of Ship Mode')

sns.countplot(x='Region', hue='Ship Mode', data=df)

Out[48]: Text(0.5, 1.0, 'Count of ship mode by region and ship mode')

plt.title('Count of ship mode by region and ship mode')

Count of ship mode by region and ship mode

plt.figure(figsize=(9,5))

Ship Mode

Second Class

Same Day

Standard ClassFirst Class

1750

1500

1250 Hode of Ship Mode 1000 Loon of Ship Mode 1000

500

250

these region.

In [51]: #Bar plot for state

plt.show()

plt.xlabel('States')

South West Central East Region Least sales are in Southern region, we can attract this region by offering more discount. Standard mode of shipment is opted by most of the customers in each region. In [50]: #Bar plot to check which region has least profit df.groupby('Region')['Profit'].agg(sum).plot(kind='bar') plt.ylabel('Profit') plt.title('Profits in different regions') plt.show() Profits in different regions 100000 80000 60000 40000 20000 East Region

State wise California has highest sales. Few states like North Dakota, Wyoming and West Virginia have less or no sales at all. To generate more profit we have to increase our sales in Texas and New York where we have potential customers.

Conclusion

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1.We should limit the sales of furniture and increase that of office supplies and technology as furtinute is generating very less profit as compared to its sales. 2.We have highest purchases in consumer segment but we should also concentrate on corporate and home office segments to increase our sales and profit. 3.In the sub-categories we are facing huge loss on the sale of tables so its sale should be minimized. 4.The sales and profit in Southern and Central region are less so we should give more incentives like discount in these states in order to increase sales, hence profit will increase. 5.Few states like North Dakota, Wyoming and West Virginia have less or no sales at all so we also need to focus on these state. 6.After the highest sales in California, we have high value of potenial customers in Texas and

New York so we should concentrate more on these states to generate more profit.

Central and Southern region are generating less profit as compared to the Eastern and Western Region. Increase the sales in Central and Southern region in order to generate more profit in

State Wise

df["State"].value_counts().plot(kind='bar',figsize=(15,5))

plt.ylabel('Frequency / Number of deals')

plt.title('State Wise', fontsize = 20)