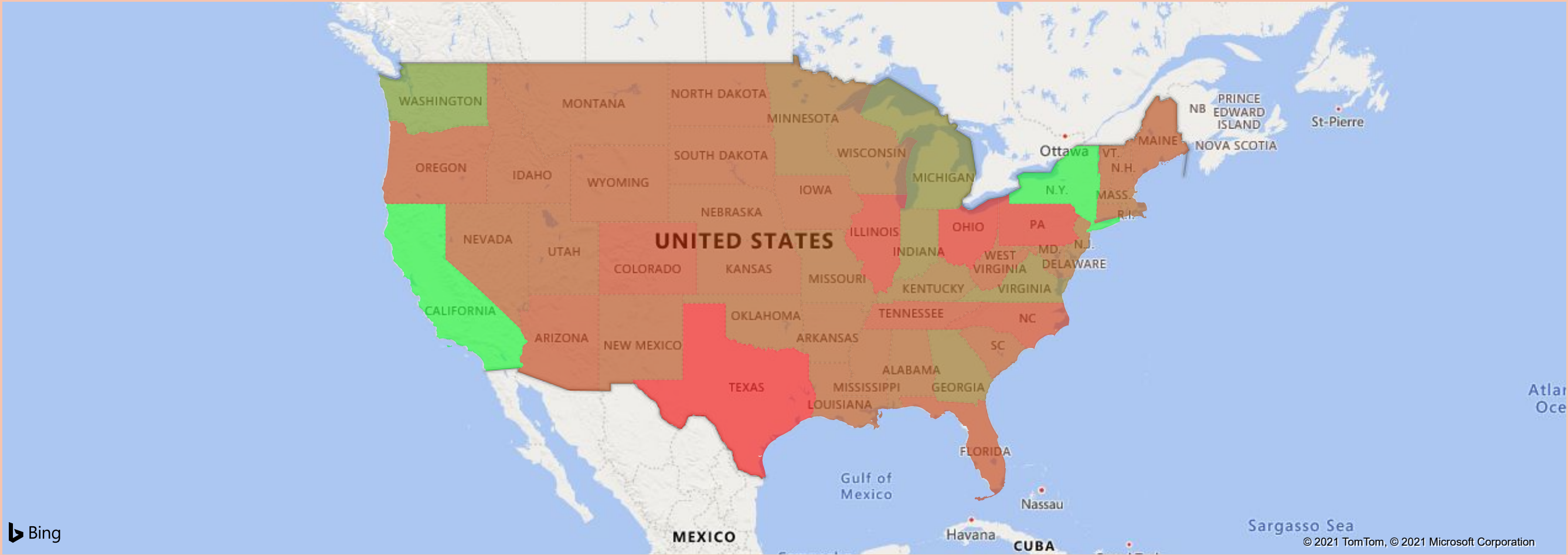# The Sparks Foundation,

Data Science & Business Analytics Internship

Task #3 :Exploratory Data Analysis-Retail

-By

Sandra S Menon,

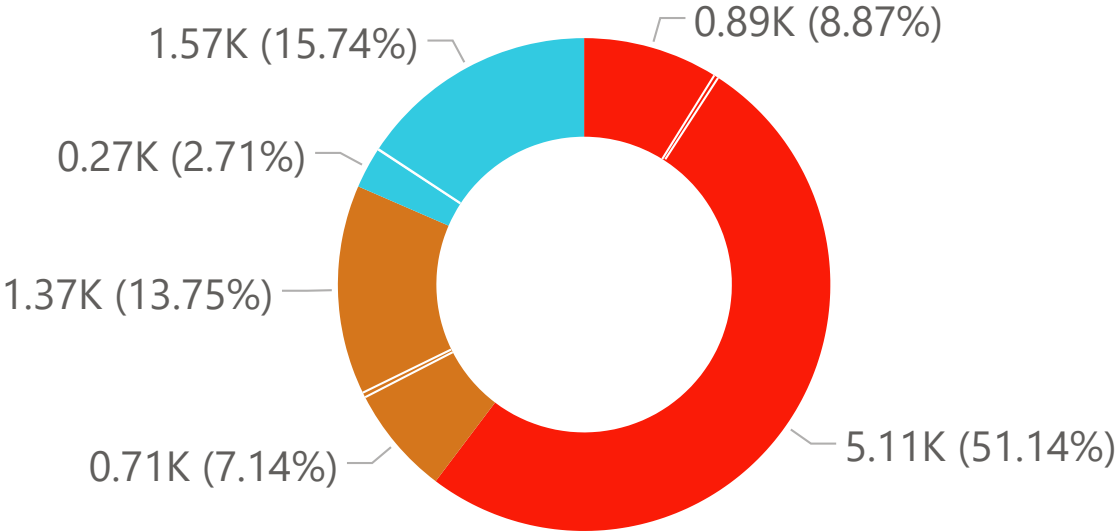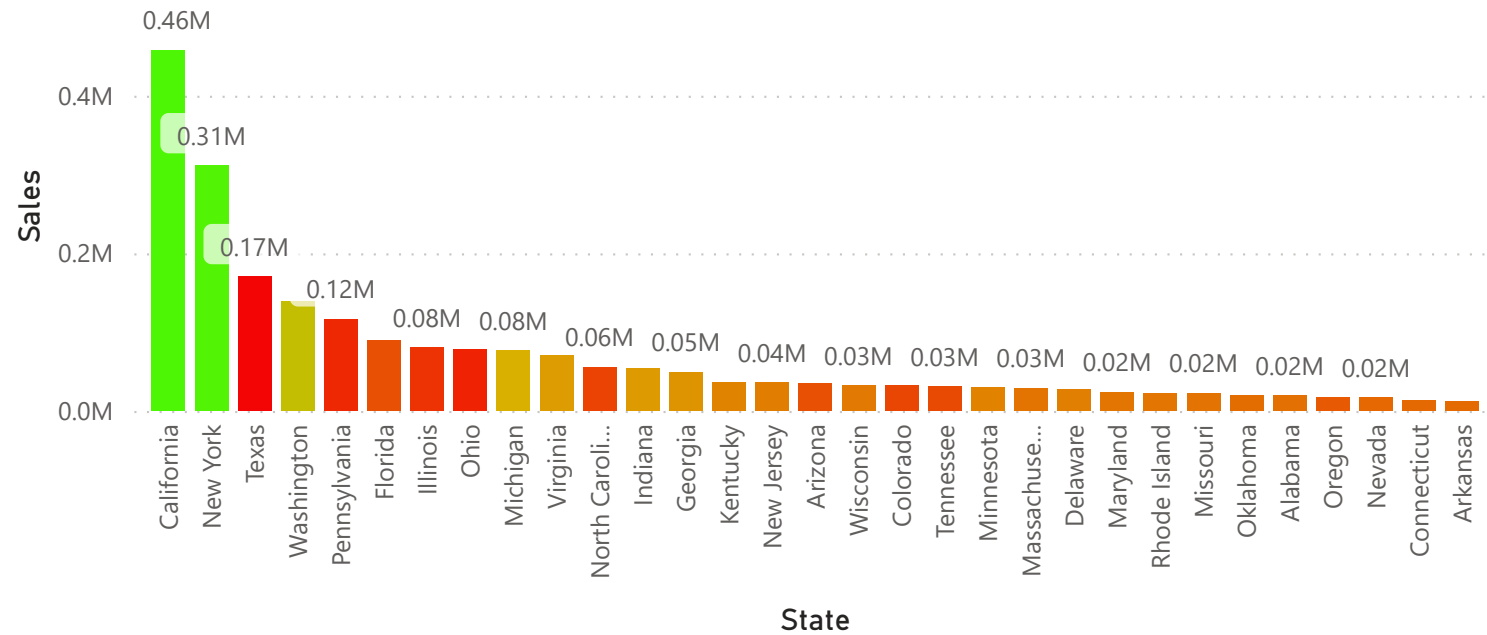# Profit and Sales by State

2.30M	286.40K	38K
Sales	Profit	Quantity

Loss/Profit incurred by each Category

1.57K (15.74%)

0.89K (8.87%)

0.27K (2.71%)

1.37K (13.75%)

5.11K (51.14%)

0.71K (7.14%)

Category
- ● Office Supplies
- ● Furniture
- ● Technology

Index	State	City	Category	Sub-Category	Profit
6827	Indiana	Lafayette	Technology	Copiers	8,399.98
8154	Washington	Seattle	Technology	Copiers	6,719.98
4191	Delaware	Newark	Technology	Copiers	5,039.99
9040	Michigan	Detroit	Office Supplies	Binders	4,946.37
4099	Minnesota	Minneapolis	Office Supplies	Binders	4,630.48
2624	New York	New York City	Technology	Copiers	3,919.99
510	Georgia	Atlanta	Office Supplies	Binders	3,177.48
8489	Virginia	Arlington	Technology	Machines	2,799.98

Sales and Profit by State

Sales axis: 0.0M, 0.2M, 0.4M

Data labels: 0.46M, 0.31M, 0.17M, 0.12M, 0.08M, 0.08M, 0.06M, 0.05M, 0.04M, 0.03M, 0.03M, 0.03M, 0.02M, 0.02M, 0.02M, 0.02M

States: California, New York, Texas, Washington, Pennsylvania, Florida, Illinois, Ohio, Michigan, Virginia, North Caroli..., Indiana, Georgia, Kentucky, New Jersey, Arizona, Wisconsin, Colorado, Tennessee, Minnesota, Massachuse..., Delaware, Maryland, Rhode Island, Missouri, Oklahoma, Alabama, Oregon, Nevada, Connecticut, Arkansas

Profit and Sales by Segment

Profit and Sales axis: 0.0M, 0.5M, 1.0M

Segments: Consumer, Corporate, Home Office

Legend: ● Profit, ● Sales
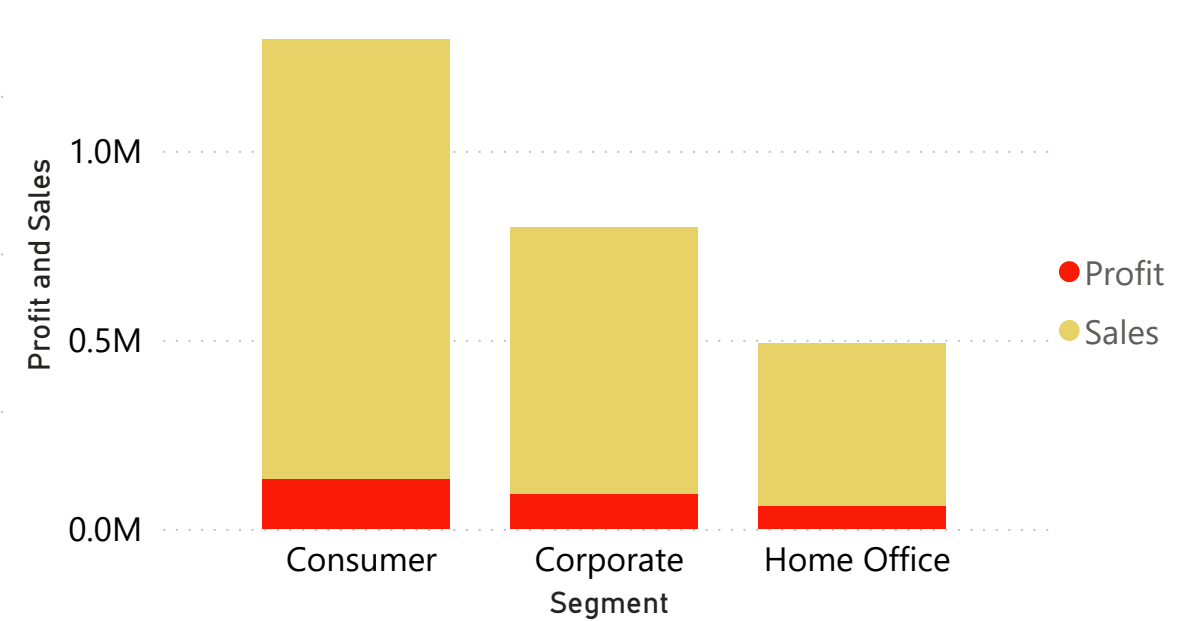
Profit and Sales by Region

Profit and Sales axis: 0.0M, 0.5M, 1.0M

Regions: West, East, South, Central

Legend: ● Profit, ● Sales
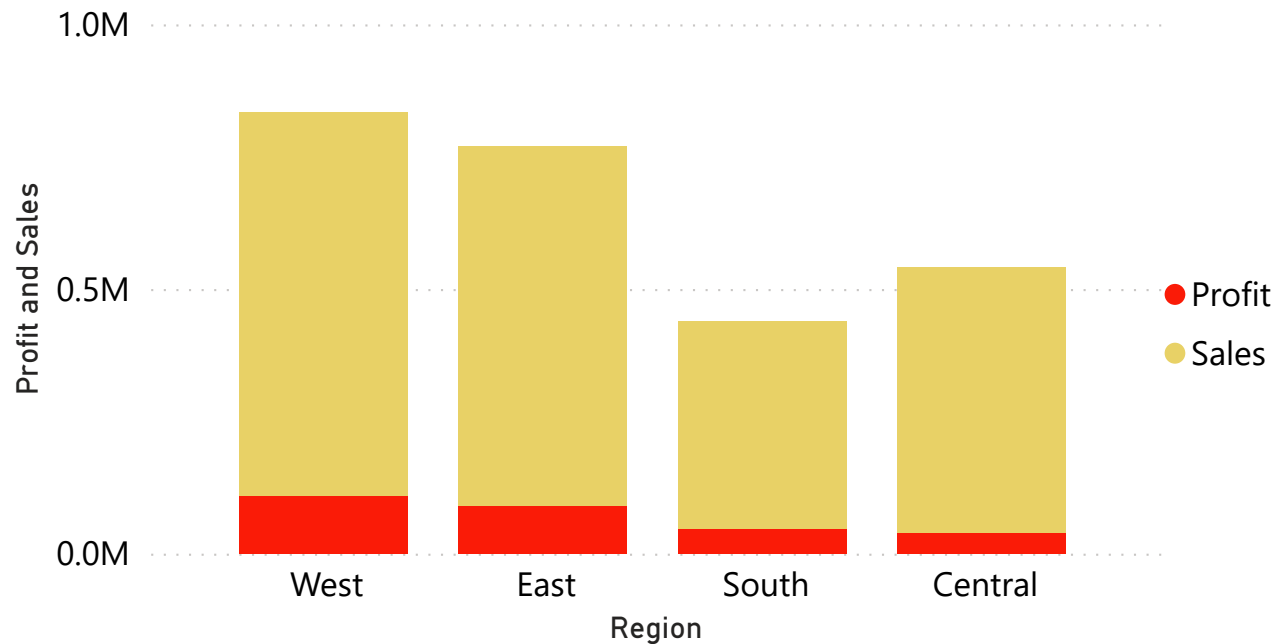
Sales by Region and Category

Sales axis: 0.0M, 0.1M, 0.2M, 0.3M

Regions: West, East, Central, South

Category
● Furniture
● Office Supplies
● Technology
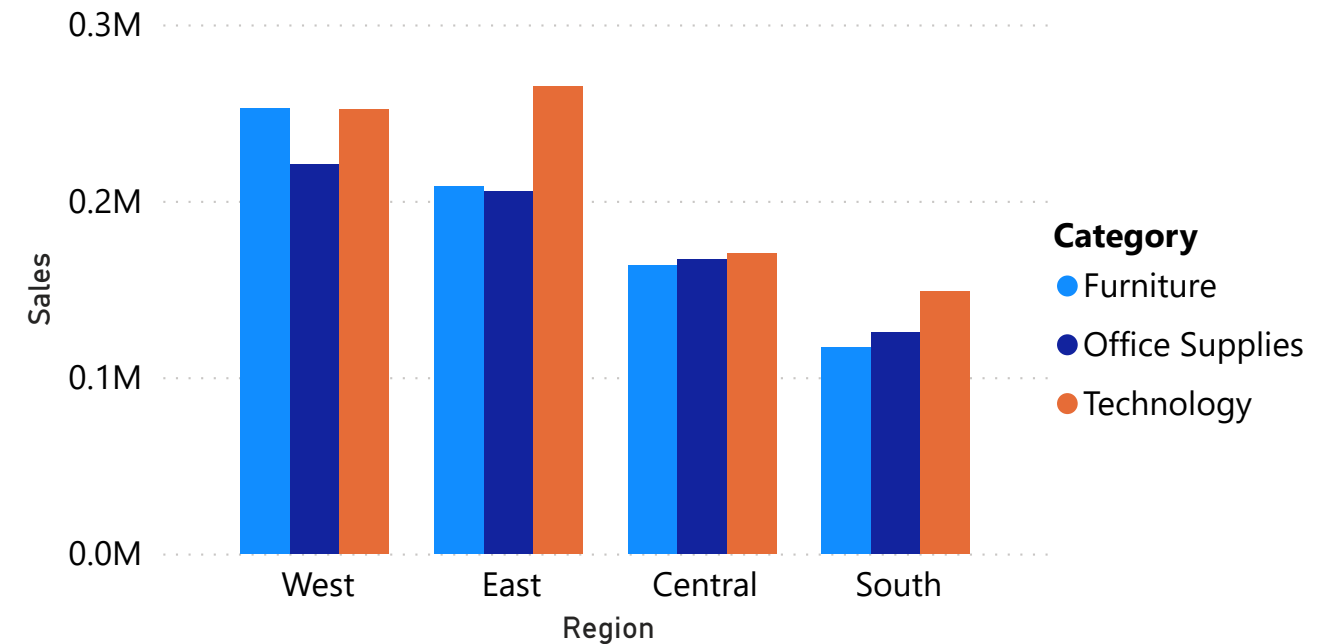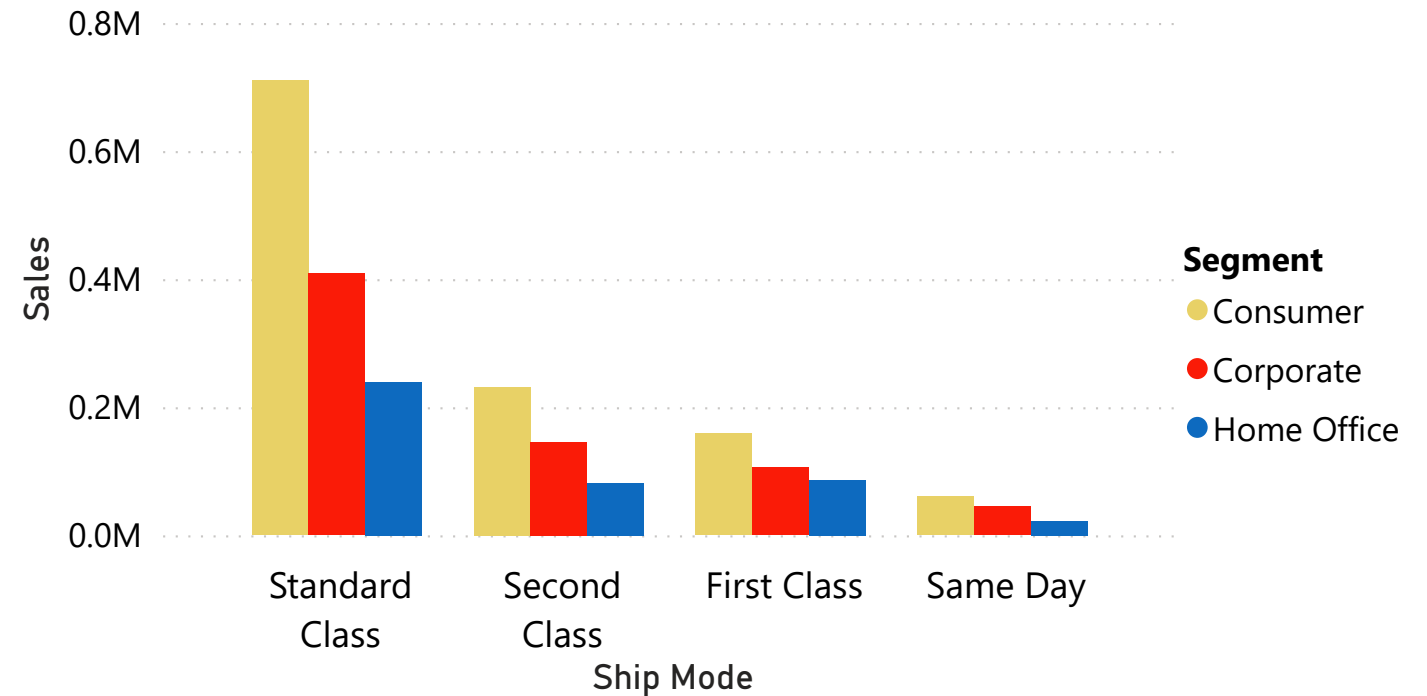
Profit and Sales by Sub-Category
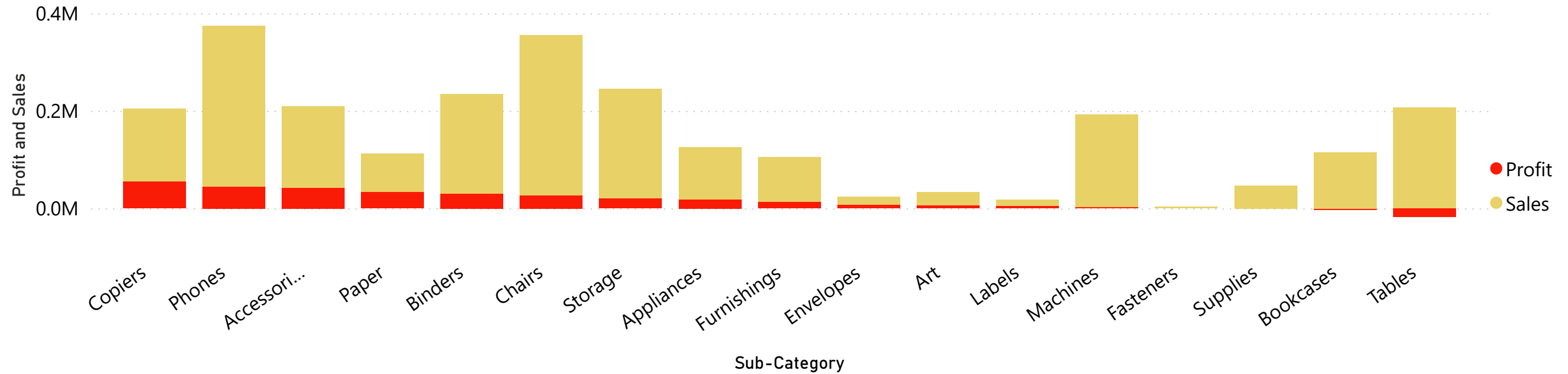
Profit and Sales by Ship Mode
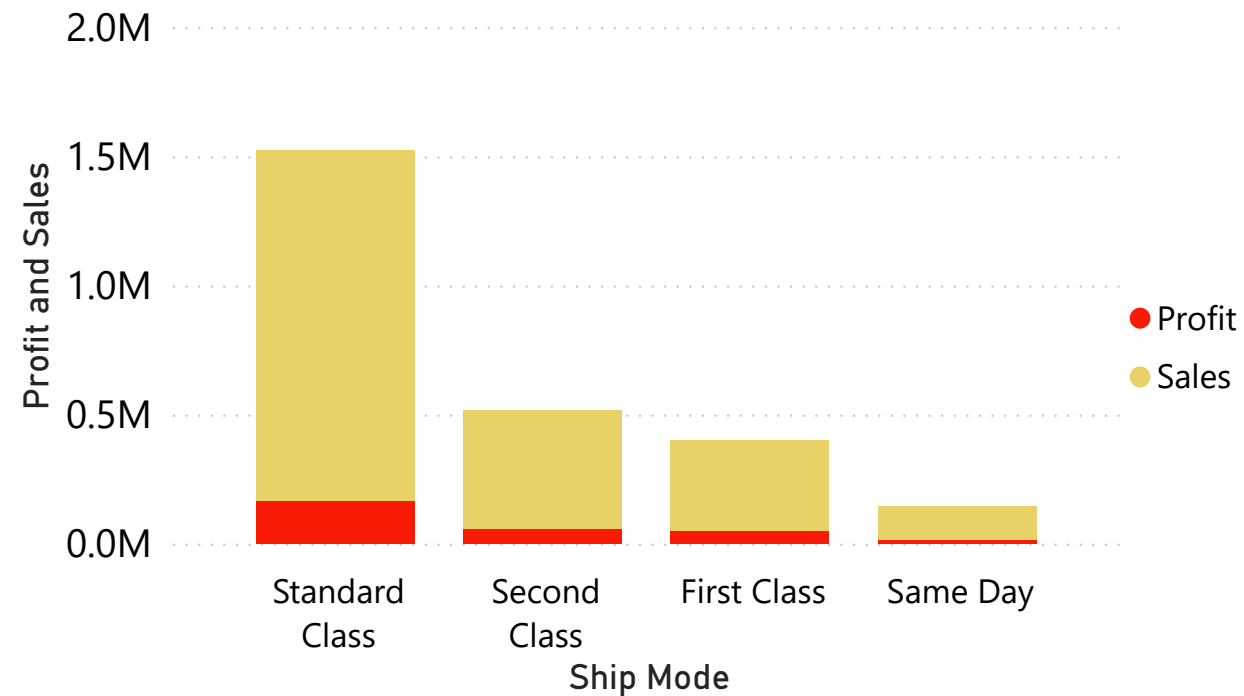
Sales by Ship Mode and Segment

Sales & Profit by Discount

Legend:
- Sales
- Profit

X-axis: Discount (0.0, 0.2, 0.4, 0.6, 0.8)
Y-axis: Sales and Profit (0.0M, 0.5M, 1.0M)
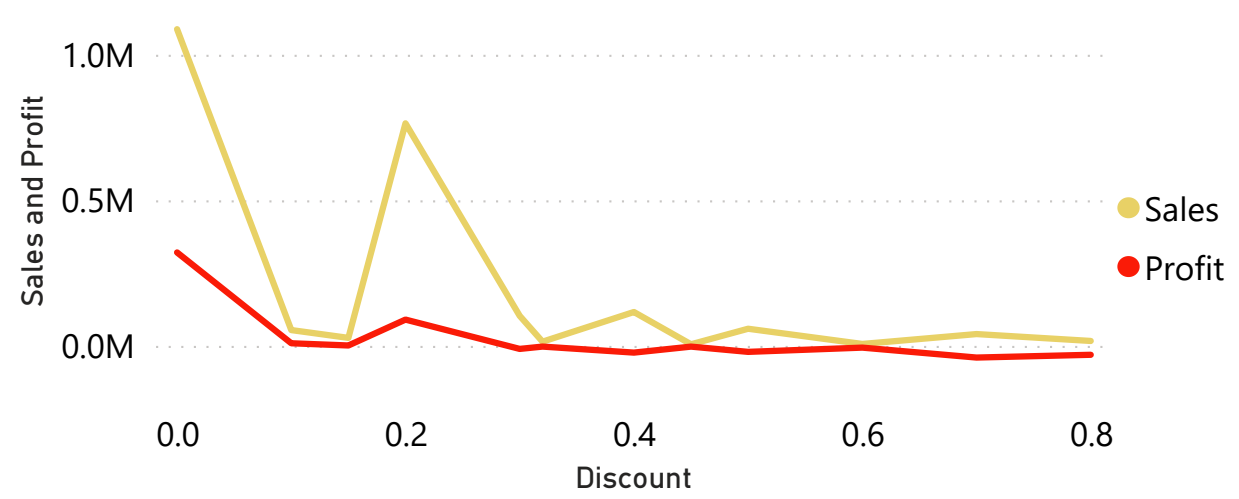
Sales by Ship Mode and Category

Category
- Furniture
- Office Supplies
- Technology

X-axis: Ship Mode (Standard Class, Second Class, First Class, Same Day)
Y-axis: Sales (0.0M, 0.2M, 0.4M)
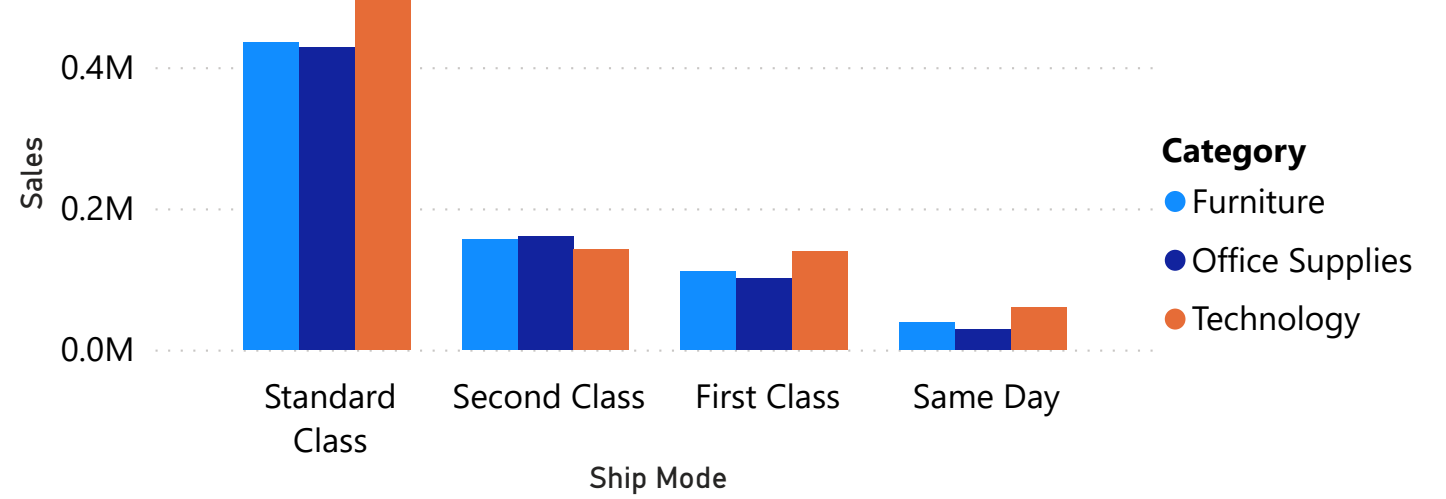
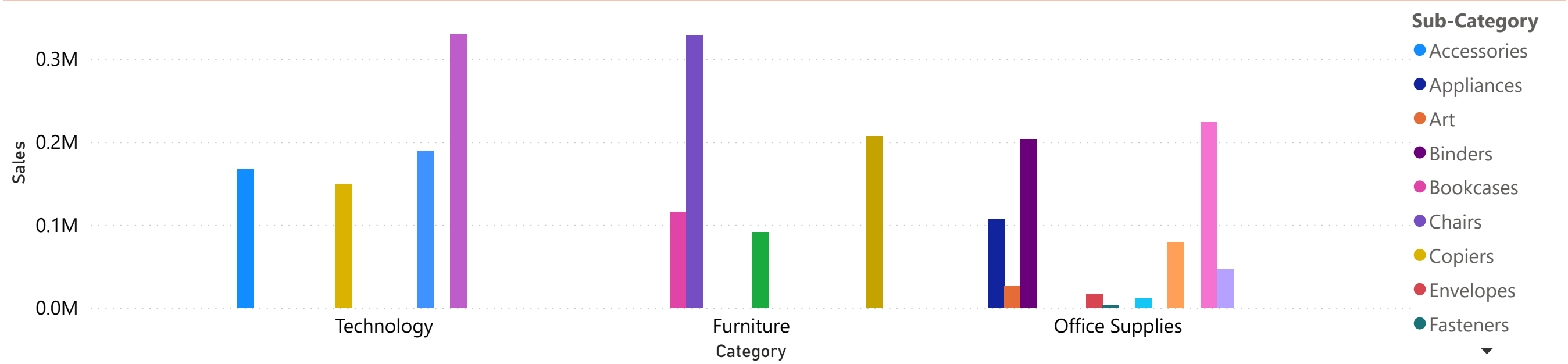| State |
|-------|
| Alabama |
| Arizona |
| Arkansas |
| California |
| Colorado |
| Connecticut |
| Delaware |
| District of Columbia |
| Florida |
| Georgia |

Sub-Category	State	Profit ▲
Tables	Alabama	-17,725.48
Bookcases	Arizona	-3,472.56
Supplies	Alabama	-1,189.10
Fasteners	Alabama	949.52
Machines	Alabama	3,384.76
Labels	Alabama	5,546.25
Art	Alabama	6,527.79
Envelopes	Alabama	6,964.18
Furnishings	Alabama	13,059.14
Appliances	Alabama	18,138.01
Total	**Alabama**	**2,86,397.02**

City
Aberdeen
Abilene
Akron
Albuquerque
Alexandria
Allen
Allentown
Altoona
Amarillo

Sub-Category	City	Profit ▲	
Tables	Akron		-17,725.48
Bookcases	Amarillo		-3,472.56
Supplies	Aberdeen		-1,189.10
Fasteners	Akron		949.52
Machines	Arlington		3,384.76
Labels	Appleton		5,546.25
Art	Akron		6,527.79
Envelopes	Ann Arbor		6,964.18
Furnishings	Akron		13,059.14
Total	**Aberdeen**		**2,86,397.02**

Sales by Category and Sub-Category

THANK YOU!