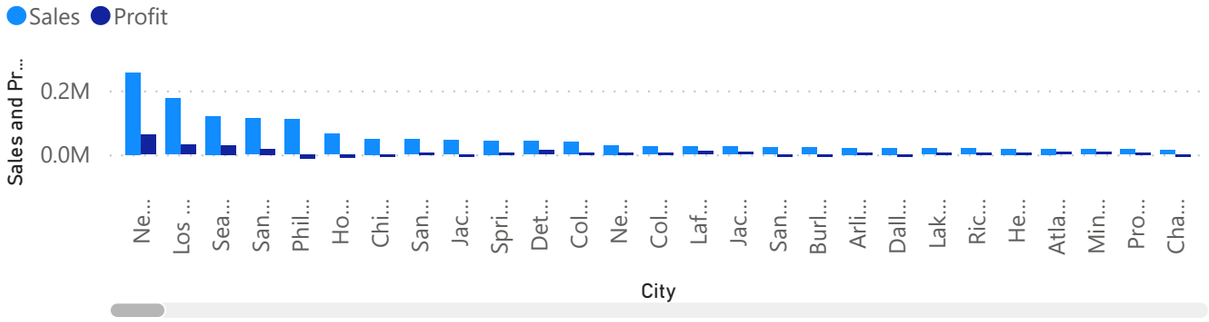
Exploratory Data Analysis - Retail

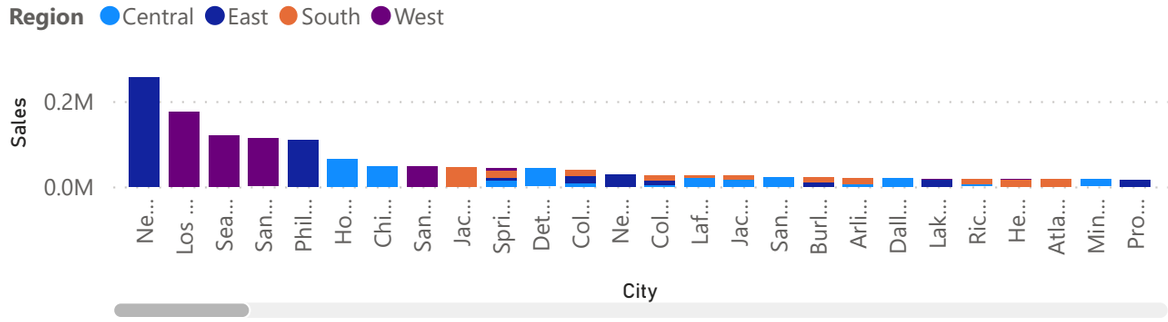
Super Store Data set

38K	2.30M	1.56K	286.40K
Quantity	Sales	Discount	Profit

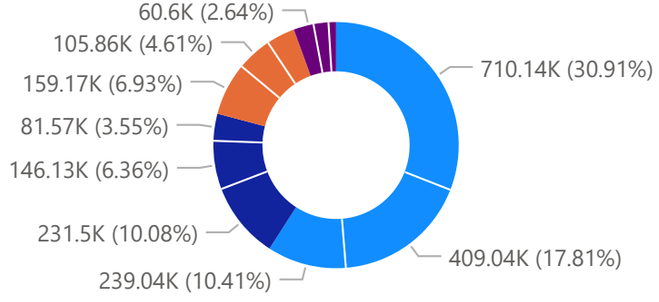
Sales and Profit by City



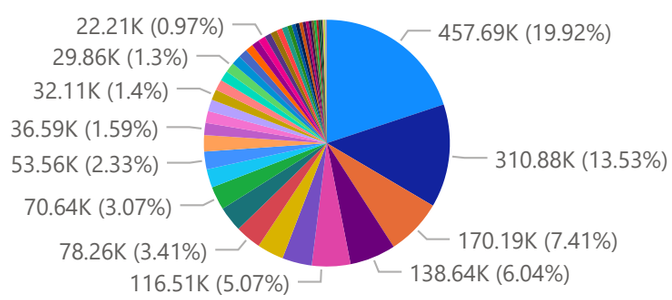
Sales by City and Region



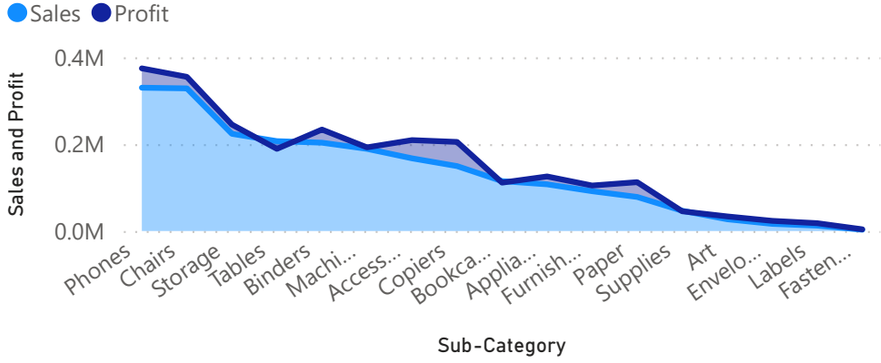
Sales by Ship Mode and Segment



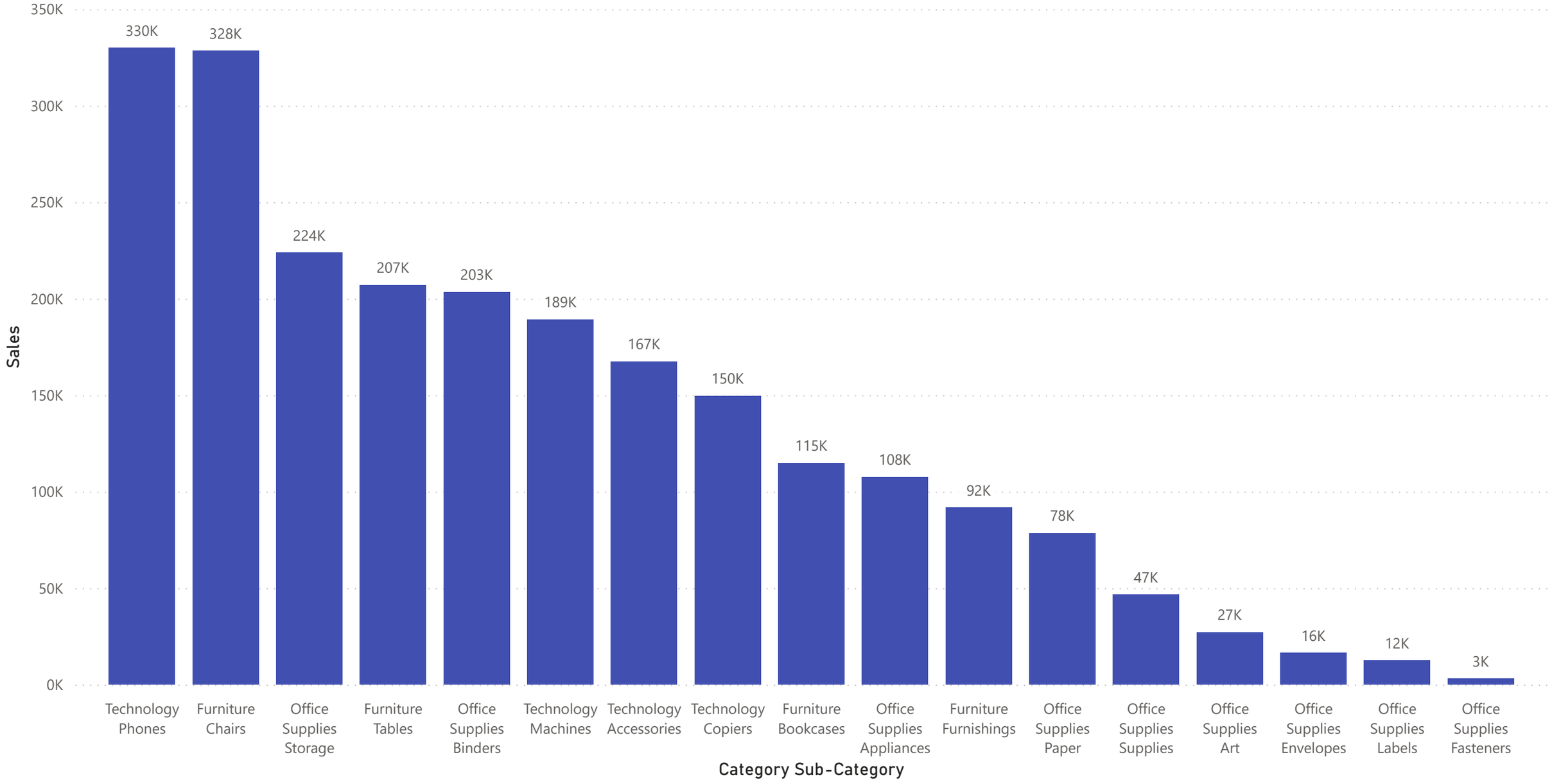
Sales by State



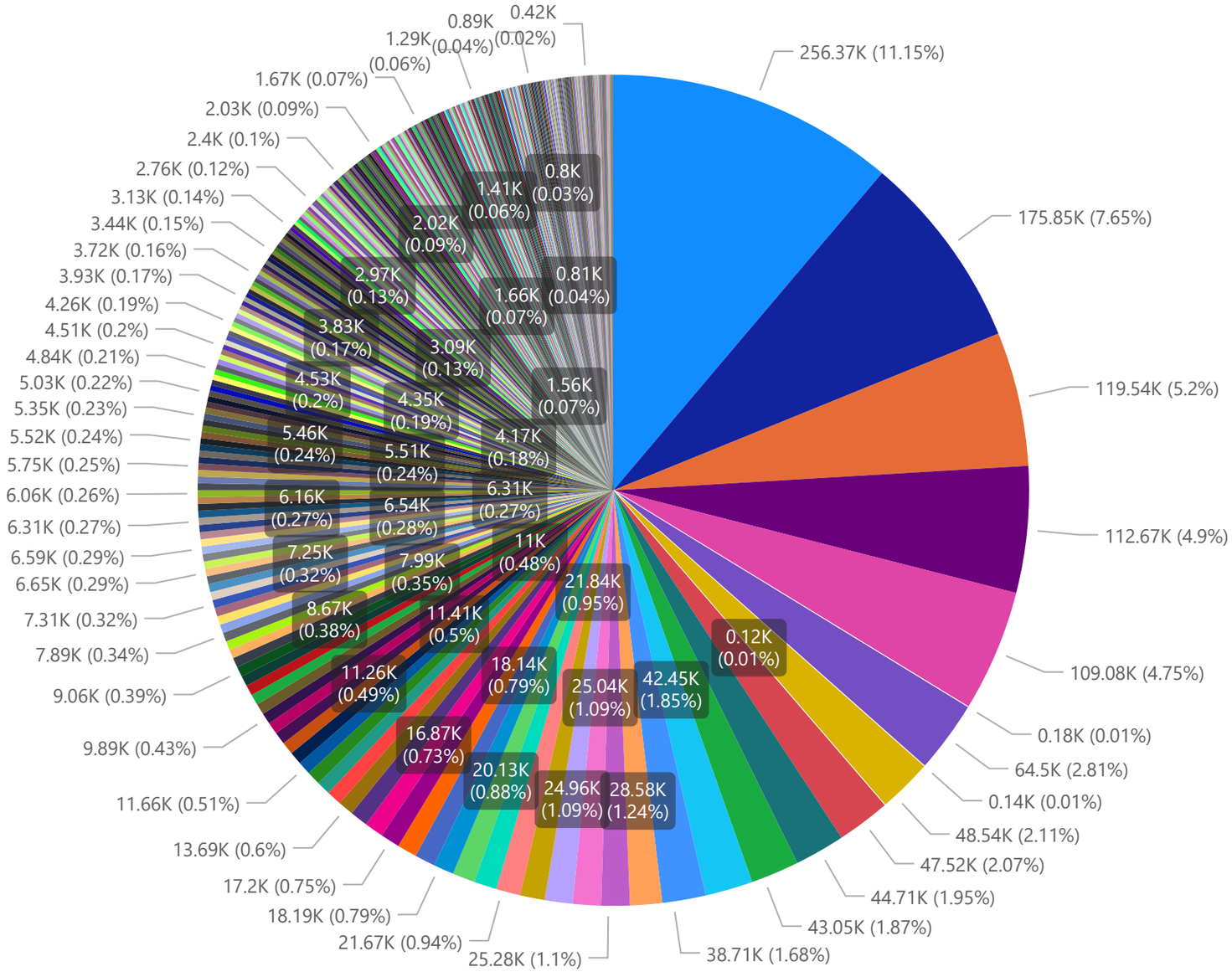
Sales and Profit by Sub-Category



Sales, Quantity and Profit by Category and Sub-Category



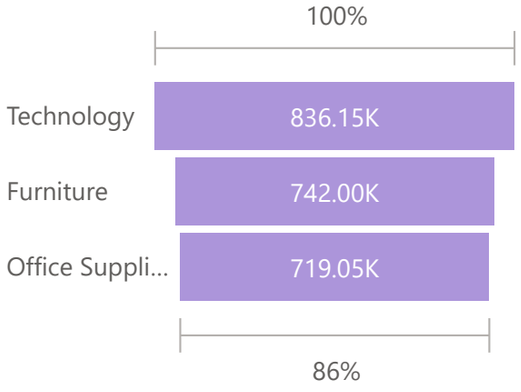
Sales, Discount, Quantity and Profit by City



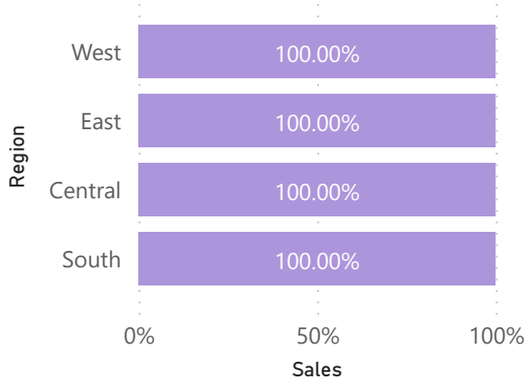
City

- New York City
- Los Angeles
- Seattle
- San Francisco
- Philadelphia
- Houston
- Chicago
- San Diego
- Jacksonville
- Springfield
- Detroit
- Columbus
- Newark
- Columbia
- Lafayette
- Jackson
- San Antonio
- Burlington
- Arlington
- Dallas
- Lakewood
- Richmond
- Henderson
- Atlanta
- Minneapolis

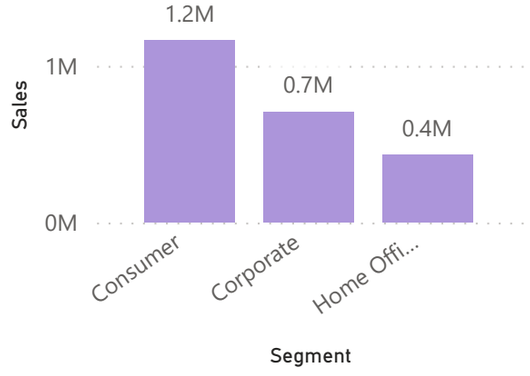
Sales by Category



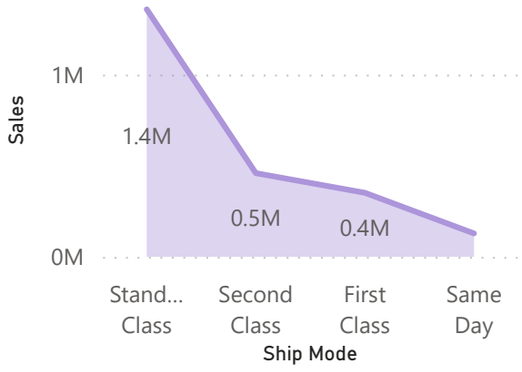
Sales by Region



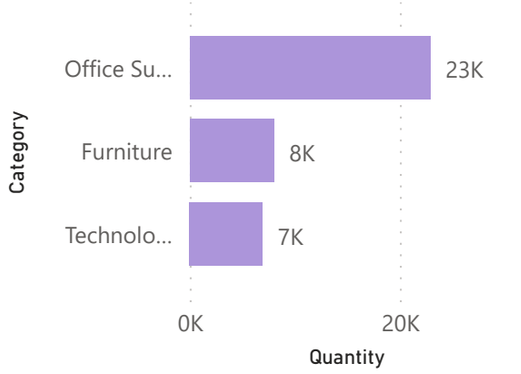
Sales by Segment



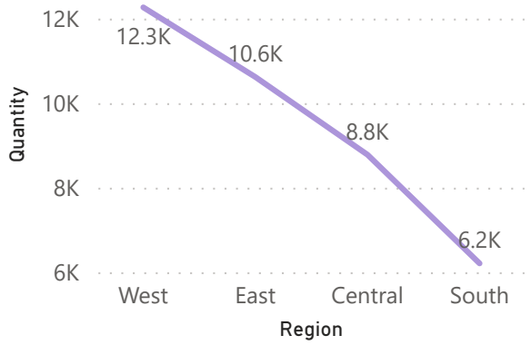
Sales by Ship Mode



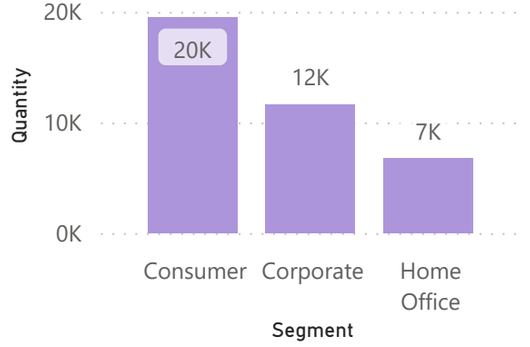
Quantity by Category



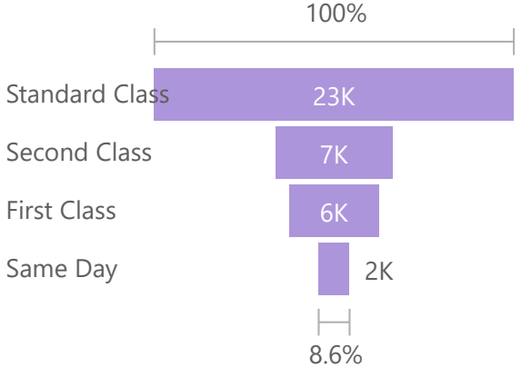
Quantity by Region



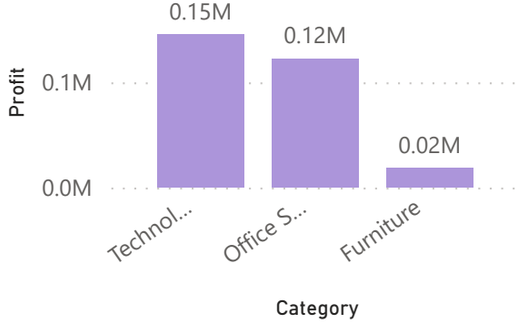
Quantity by Segment



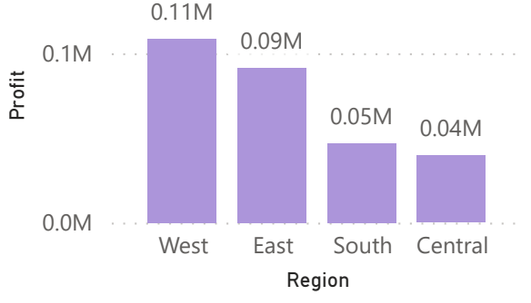
Quantity by Ship Mode



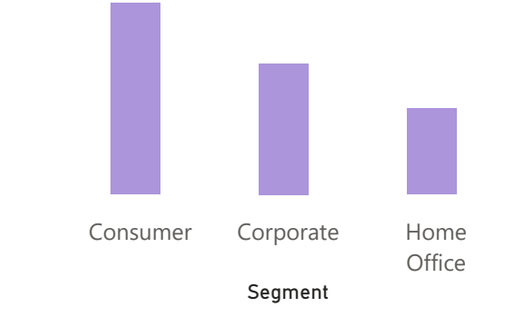
Profit by Category



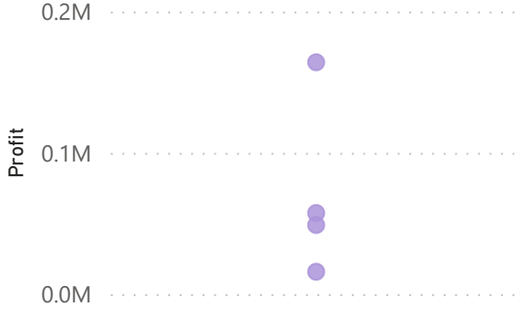
Profit by Region



Profit by Segment



Profit by Ship Mode



Profit and Sales Distribution by Region

Central
501,239.89 Sales
39,706.36 Profit

East
678,781.24 Sales
91,522.78 Profit

South
391,721.91 Sales
46,749.43 Profit

West
725,457.82 Sales
108,418.45 Profit

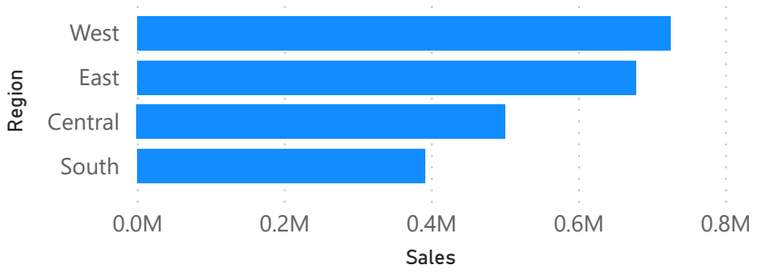
2.30M
Sales

286.40K
Profit

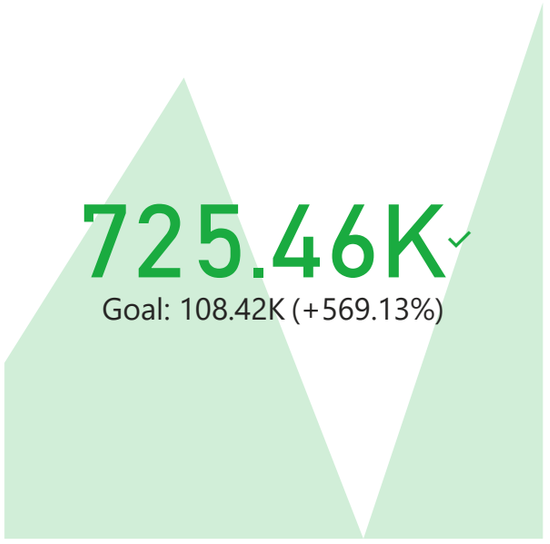
Central
First Region

Sales	Profit	Region
391,721.91	46,749.43	South
501,239.89	39,706.36	Central
678,781.24	91,522.78	East
725,457.82	108,418.45	West
2,297,200.86	**286,397.02**	

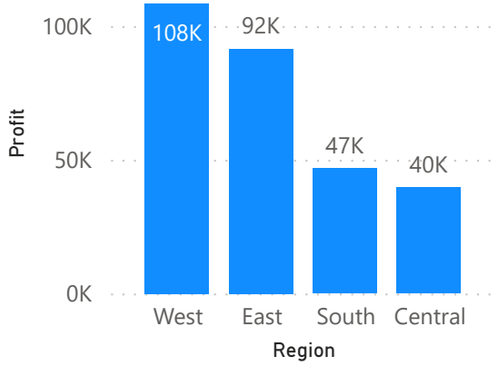
Sales by Region



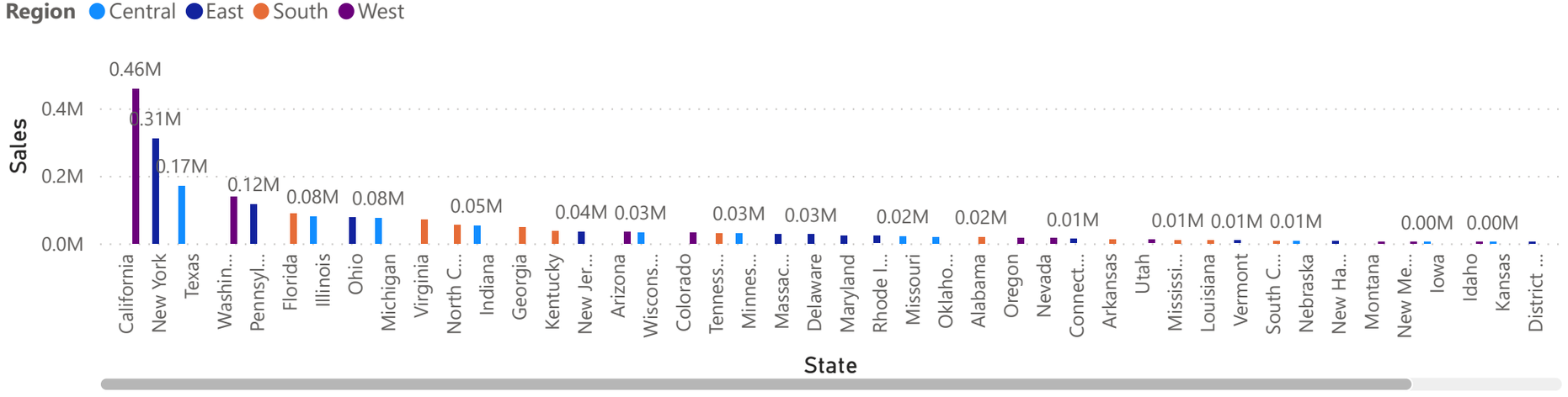
Sales and Profit by Region



Profit by Region

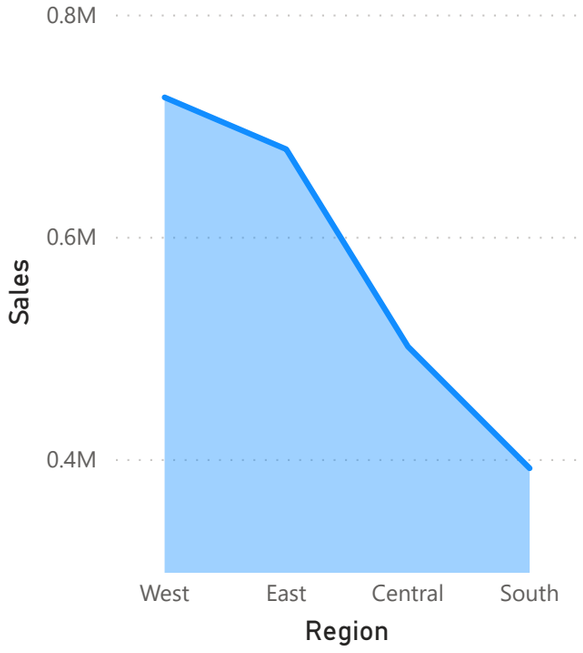


Sales by State and Region



Sales Distribution by category and Region

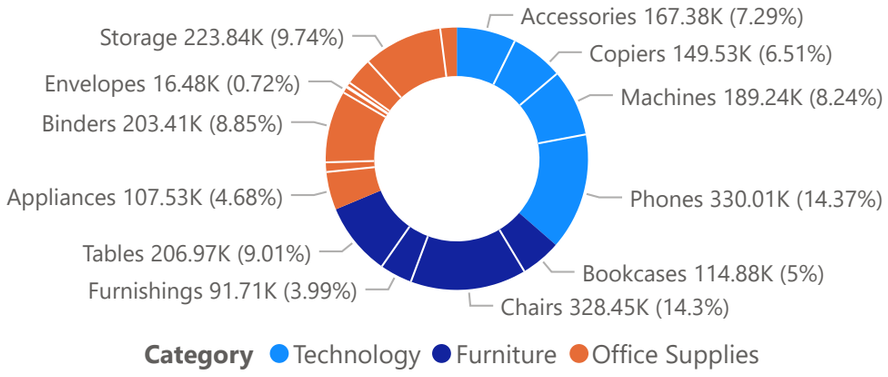
Sales by Region



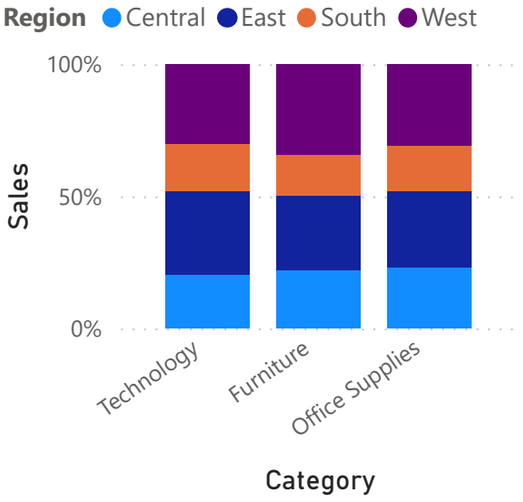
Central
First Region

2.30M
Sales

Sales by Category and Sub-Category

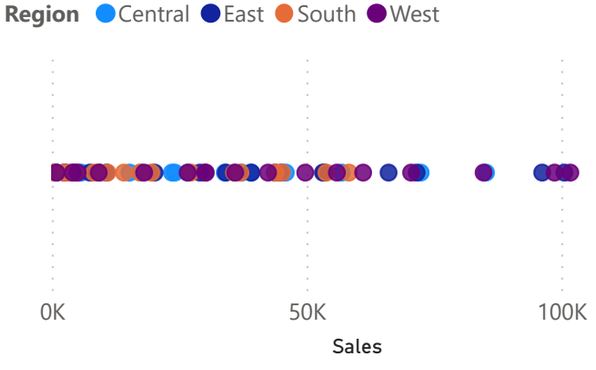


Sales by Category and Region

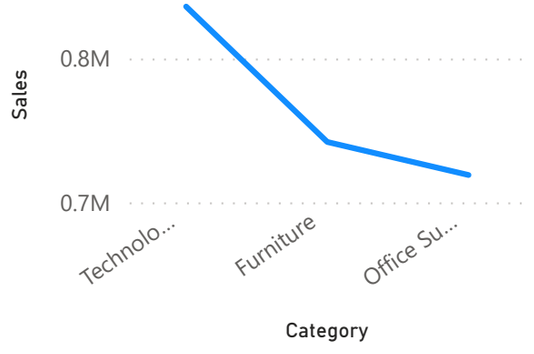


101,781.33	Furniture
Sales	Category
Chairs	West
Sub-Category	Region
100,614.98	Technology
Sales	Category
Phones	East
Sub-Category	Region

Sales by Sub-Category and Region



Sales by Category



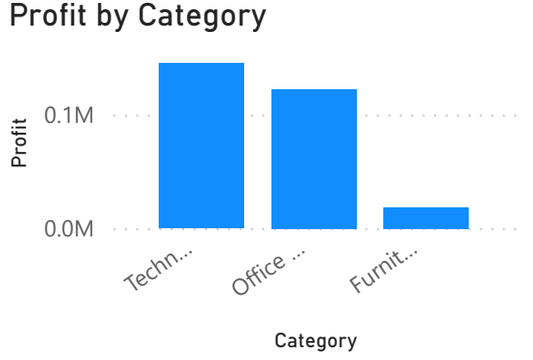
Category	Sales	Region
Furniture	163,797.16	Central
Furniture	208,291.20	East
Furniture	117,298.68	South
Furniture	252,612.74	West
Office Supplies	167,026.42	Central
Office Supplies	205,516.06	East
Office Supplies	125,651.31	South
Office Supplies	220,853.25	West
Technology	170,416.31	Central
Technology	264,973.98	East
Technology	148,771.91	South
Technology	251,991.83	West
Total	**2,297,200.86**	

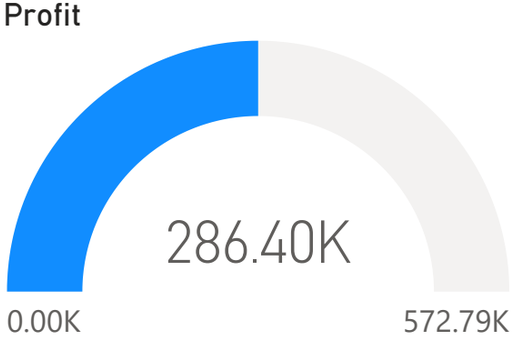
Profit Distribution by Region and Category

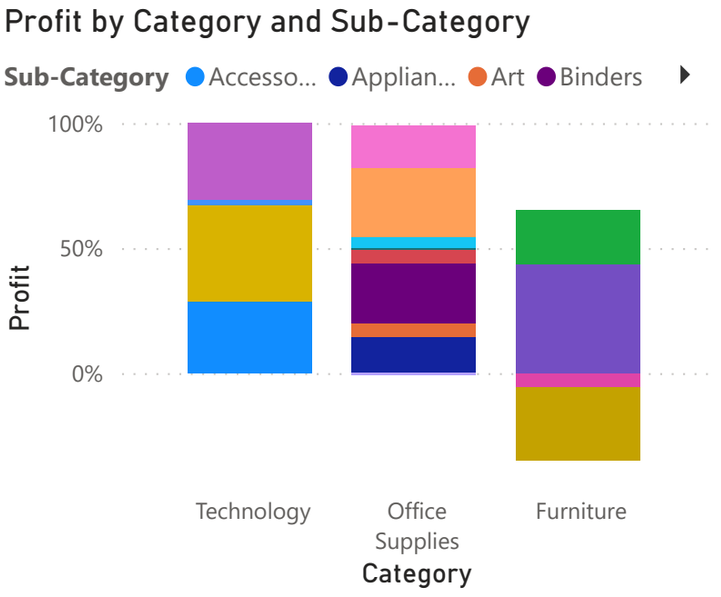
Profit	Sub-Category	Region
7,251.63	Accessories	Central
11,195.86	Accessories	East
7,004.54	Accessories	South
16,484.60	Accessories	West
-2,638.62	Appliances	Central
8,391.41	Appliances	East
4,123.94	Appliances	South
8,261.27	Appliances	West
1,195.16	Art	Central
1,899.94	Art	East
1,058.59	Art	South
2,374.10	Art	West
-1,043.64	Binders	Central
286,397.02		

286.40K
Profit

Central
First Region



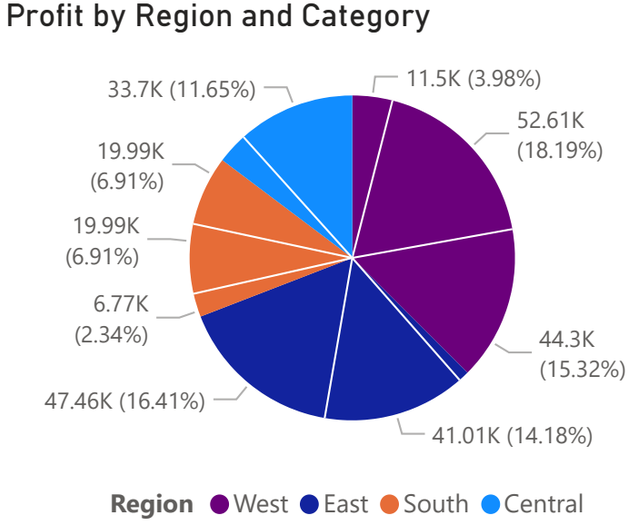


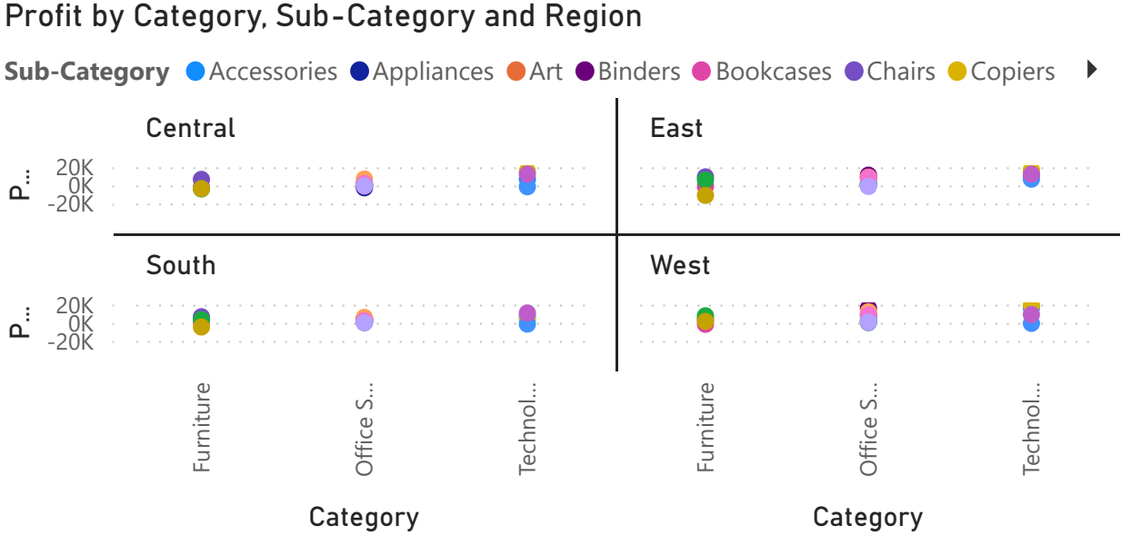


Accessories
Sub-Category
7,251.63
Profit
Central
Region

Accessories
Sub-Category
11,195.86
Profit
East
Region

Accessories
Sub-Category
7,004.54
Profit





Sales and Profit Distribution by Sub-Category and Segment

State	Sales
California	457,687.63
New York	310,876.27
Texas	170,188.05
Washington	138,641.27
Pennsylvania	116,511.91
Florida	89,473.71
Illinois	80,166.10
Ohio	78,258.14
Michigan	76,269.61
Virginia	70,636.72
North Carolina	55,603.16
Indiana	53,555.36
Total	**2,297,200.86**

172,862.74
Sales

Chairs
Sub-Category

Consumer
Segment

169,932.76
Sales

Phones
Sub-Category

Consumer
Segment

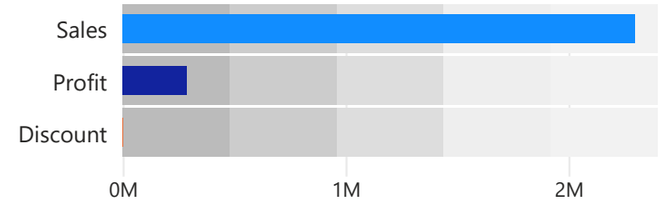
118,161.01
Sales

Binders
Sub-Category

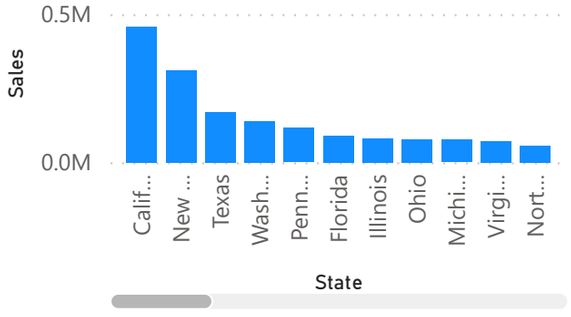
2.30M
Sales

286.40K
Profit

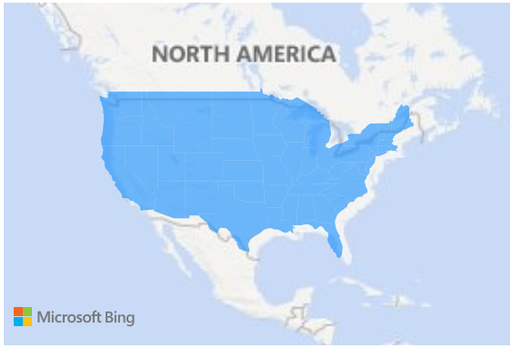
Sales, Profit and Discount



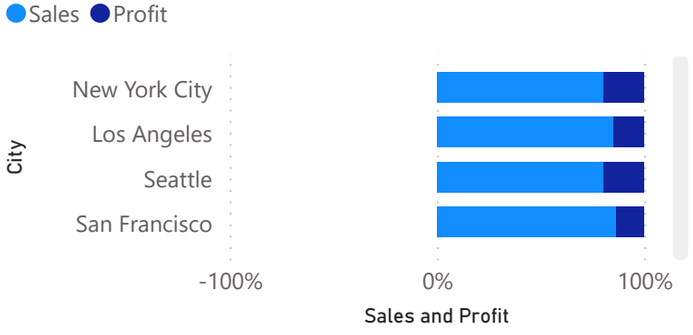
Sales by State



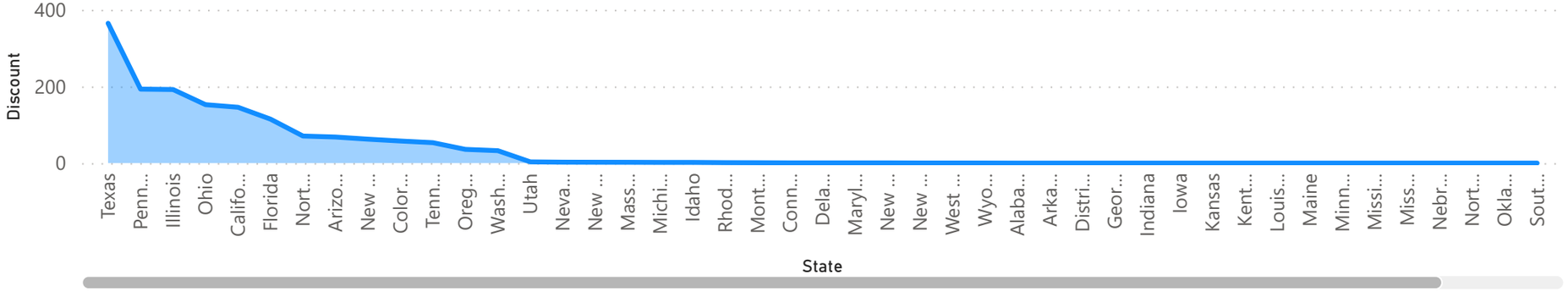
Profit by State



Sales and Profit by City



Discount by State



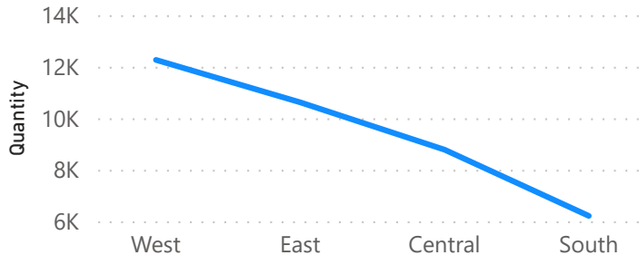
Discount and Quantity Distribution

Discount	Quantity	Sales	Category
368.89	8028	741,999.80	Furniture
947.80	22906	719,047.03	Office Supplies
244.40	6939	836,154.03	Technology
1,561.09	**37873**	**2,297,200.86**	

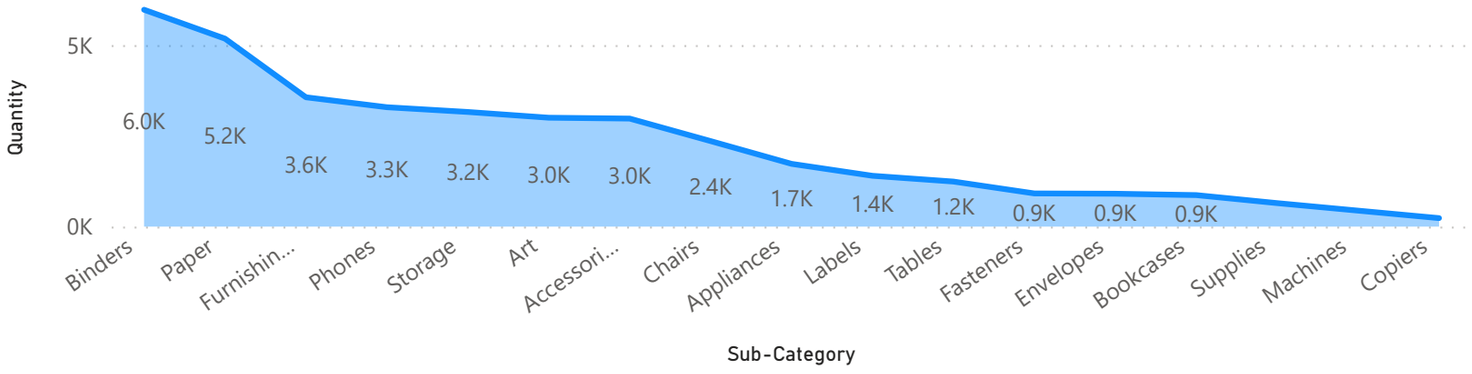
38K
Quantity

1.56K
Discount

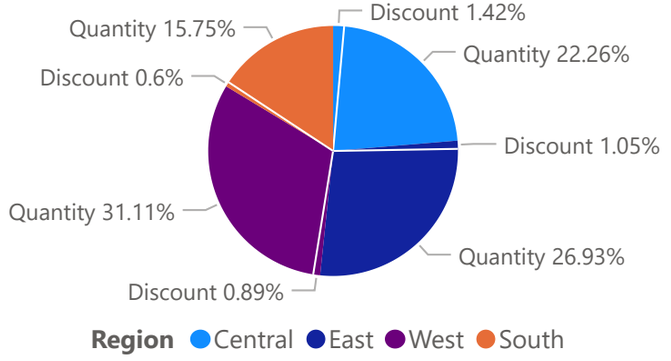
Quantity by Region



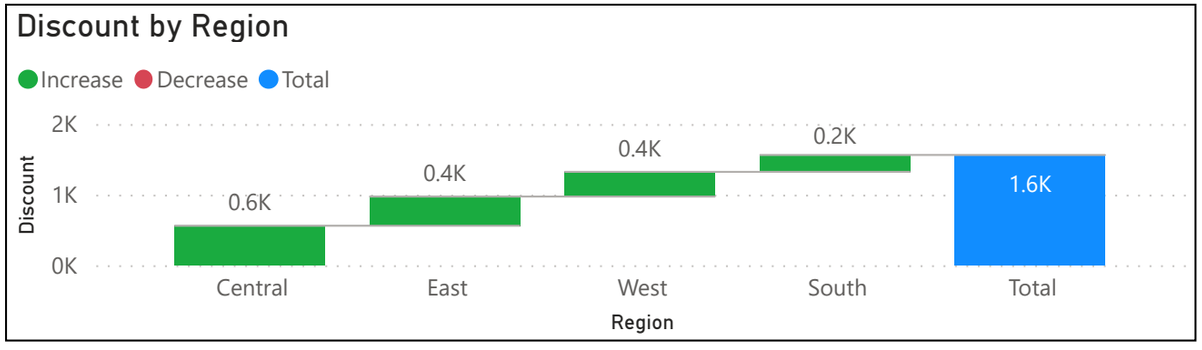
Quantity and Discount by Sub-Category



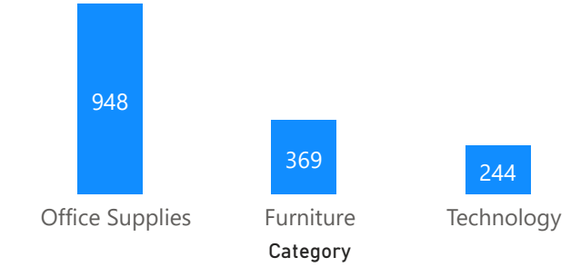
Discount and Quantity by Region



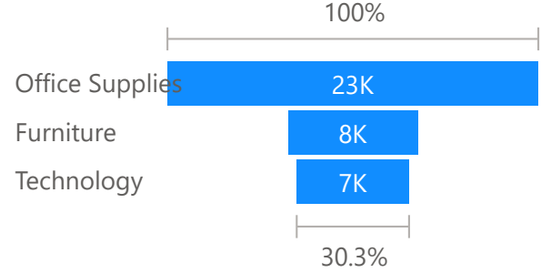
Discount by Region



Discount by Category



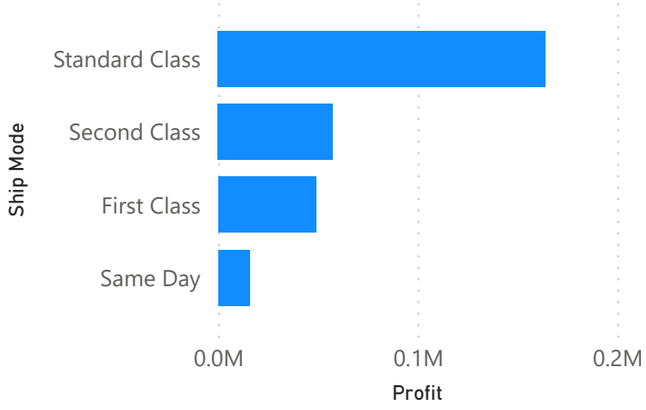
Quantity by Category



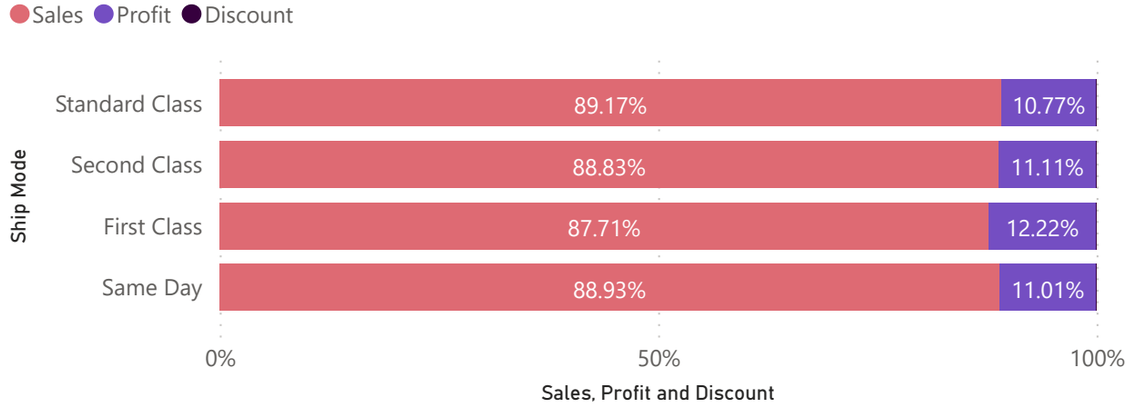
Ship Model Analysis

Ship Mode	Segment	Sales
First Class	Consumer	159,168.97
Same Day	Consumer	60,596.36
Second Class	Consumer	231,498.95
Standard Class	Consumer	710,137.07
First Class	Corporate	105,858.47
Same Day	Corporate	45,121.32
Second Class	Corporate	146,126.04
Standard Class	Corporate	409,040.54
First Class	Home Office	86,400.99
Same Day	Home Office	22,645.44
Second Class	Home Office	81,568.58
Standard Class	Home Office	239,038.14
Total		**2,297,200.86**

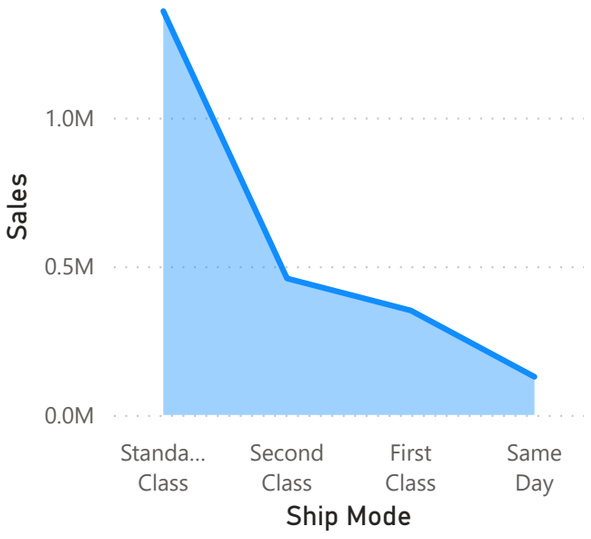
Profit by Ship Mode



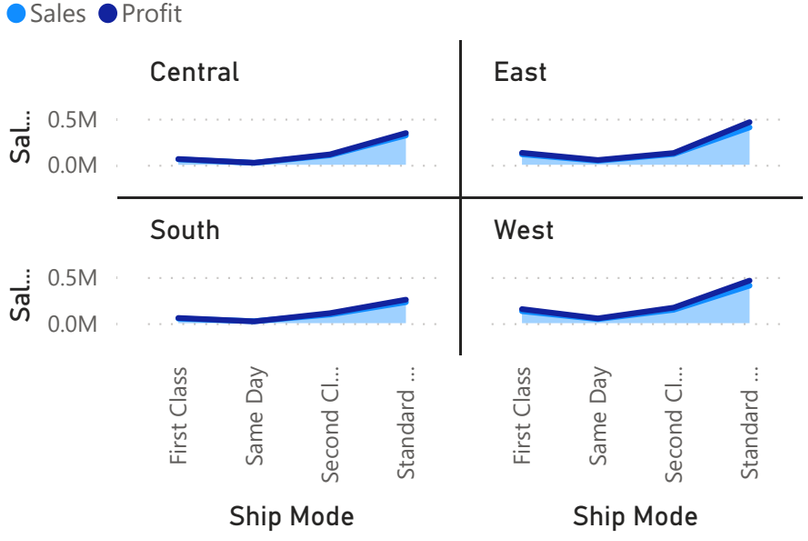
Sales, Profit and Discount by Ship Mode



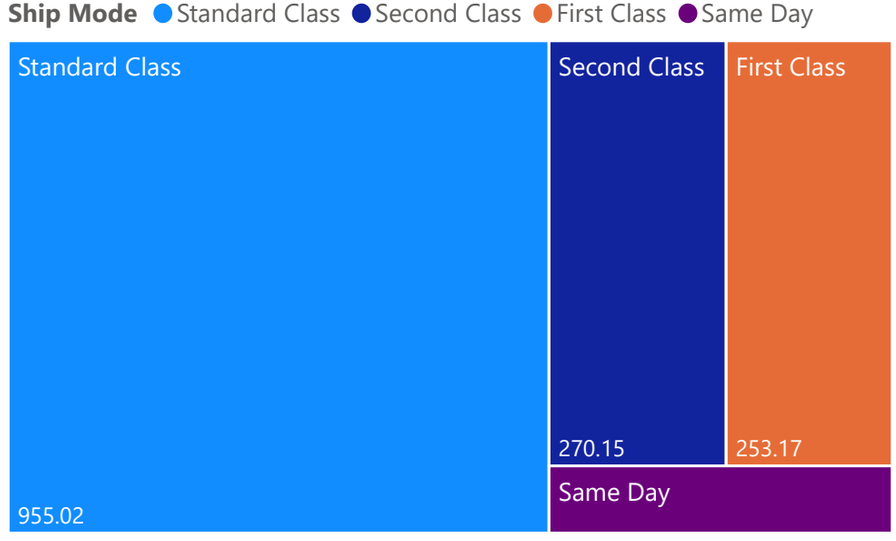
Sales by Ship Mode



Sales and Profit by Ship Mode and Region



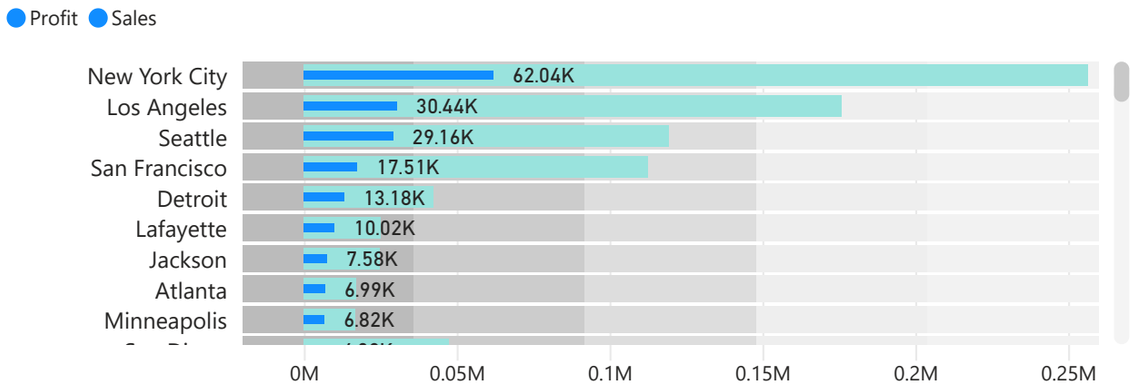
Discount by Ship Mode



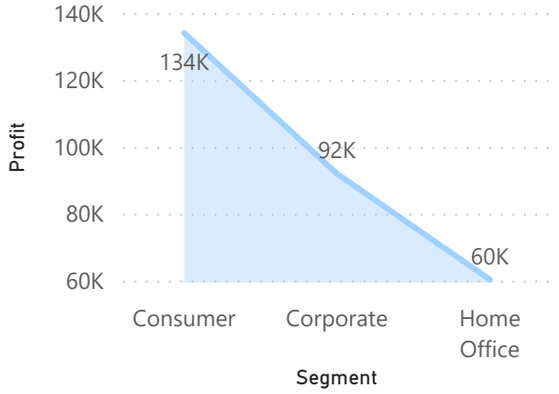
Profit Analysis

286.40K
Profit

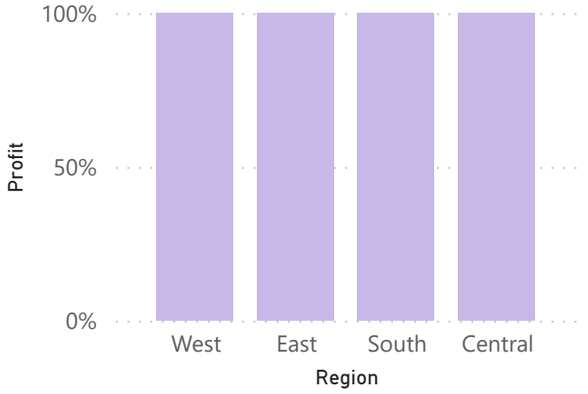
Profit and Sales by City



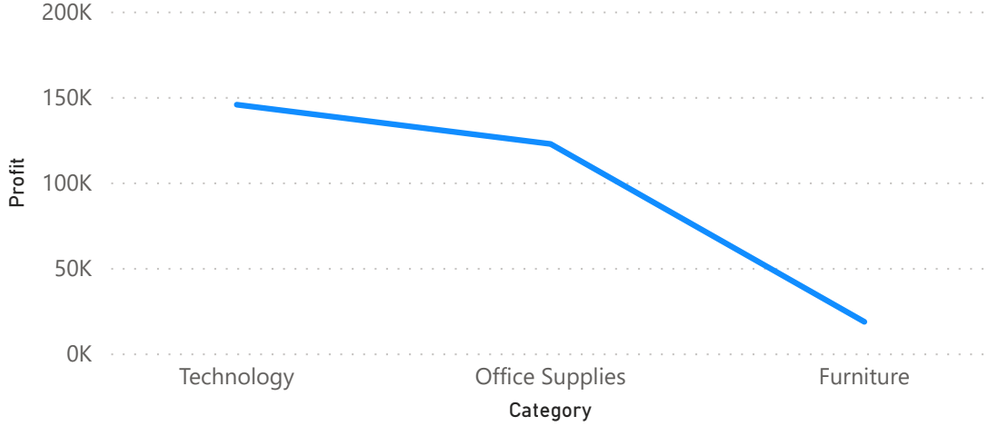
Profit by Segment



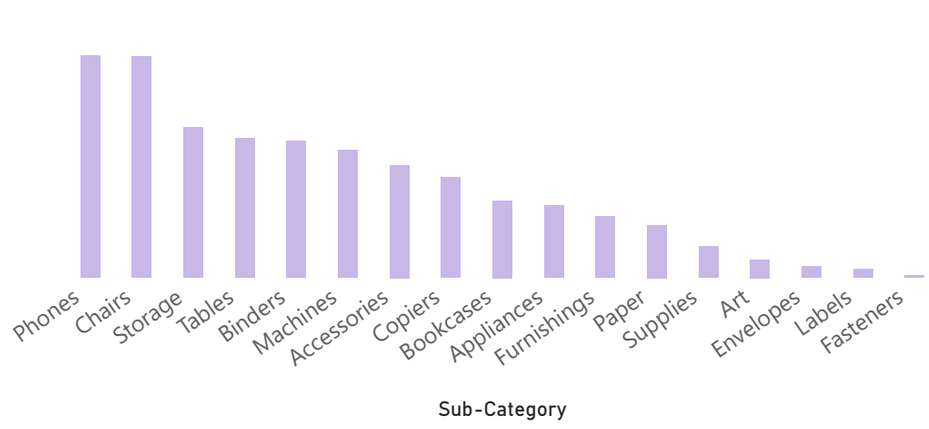
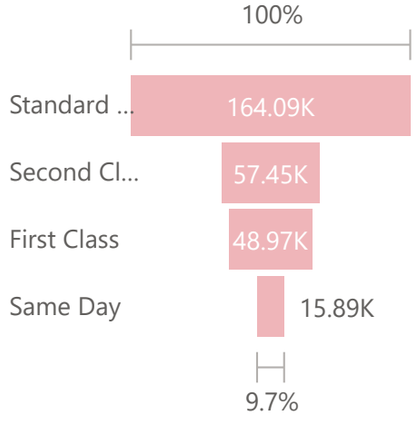
Profit by Region



Profit by Category



Sales by Sub-Category



Profit by Ship Mode