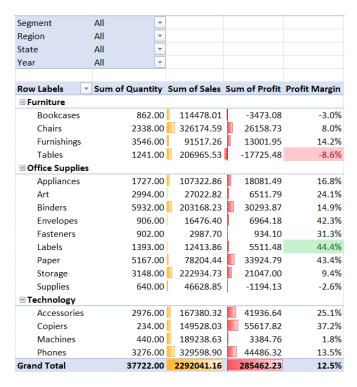
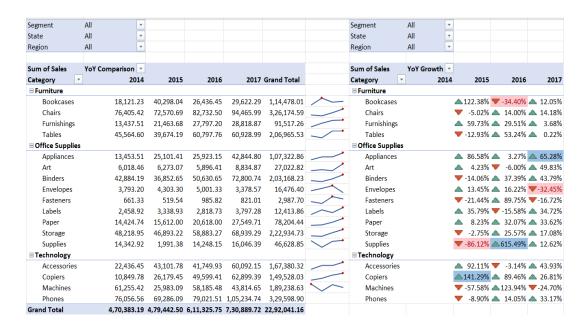
## **Pivot Tables for analysis**

1. **Overall, Sales\_Profit**: Pivot table showing total sales and profit of different categories & subcategories. And also, the profit margin of these products (Profit margin = (Profit/Sales) \*100). We can filter profit margin by years showing which product's margin is more or less.

Profit Margin is calculated by creating measure in power query. Data bars, top 1 and bottom 1 in conditional formatting is used.



2. **YoY\_Sales Comparison**: This pivot table shows sales comparison through out the years. We can analyze which products sales has increased or decreased compared to previous year and by how much percentage. We can filter the results by region, state or segment of customers. Line sparkline is used to show each products trend.



3. **Sales Trend**: This shows quarterly sales trend. We can see that the months of Sep, Nov, Dec have seen more sales.

Sum of Sales	Year 🔻			
Quarter - Months 🗐	2014	2015	2016	2017
<b>1</b>				
Jan	13,275.13	29,594.76	19,130.06	42,297.04
Feb	5,406.53	12,679.08	26,954.09	23,506.78
Mar	50,708.35	39,269.66	48,795.91	52,891.39
<b>■ 2</b>				
Apr	30,388.47	25,515.25	41,028.30	40,021.68
May	22,478.88	32,587.95	46,520.18	44,774.93
Jun	35,991.66	29,850.83	48,272.72	47,220.50
<b>∃3</b>				
Jul	32,990.59	30,400.23	37,595.95	47,183.87
Aug	30,245.24	28,116.31	32,031.58	63,760.02
Sep	73,126.65	69,615.84	70,460.80	91,427.87
<b>■4</b>				
Oct	35,741.48	32,575.72	60,858.20	75,551.66
Nov	80,182.19	70,634.85	74,664.18	1,05,200.51
Dec	59,848.02	78,602,02	1,05,013.79	97,053.46
Grand Total	4,70,383.19	4,79,442.50	6,11,325.75	7,30,889.72

4. **Sales by Region & cities**: This Pivot table shows sales in different regions. Thus, it can be observed that East region has most sales. Also top 5 cities from each region have been taken.

Region-City	Sum of Sales		
<b>⊟</b> East			
New York City	2,01,309.42		
Philadelphia	1,42,426.49		
Columbus	53,072.80		
Cincinnati	26,170.84		
Newark	19,533.14		
<b>■ West</b>			
Los Angeles	1,58,134.72		
San Francisco	1,25,345.26		
Seattle	73,060.55		
San Diego	37,788.91		
Phoenix	27,729.47		
□ Central			
Houston	1,29,488.25		
Chicago	66,475.36		
Detroit	34,624.32		
Columbus	17,843.81		
Fort Worth	17,675.33		
<b>■</b> South			
Springfield	28,254.86		
Jacksonville	27,316.01		
Jackson	26,054.38		
Charlotte	25,463.81		
Wilmington	20,606.93		
Grand Total	12,58,374.68		

5. **Profit Analysis**: Shows which products are profitable and which are in loss.

Sum of Profit	Column Labels				
Row Labels	2014	2015	2016	2017	<b>Grand Total</b>
<b>■</b> Furniture					
Bookcases	-621.51	-2500.82	233.40	-584.15	-3473.08
Chairs	6780.55	6402.91	5673.05	7302.22	26158.73
Furnishings	1991.01	3045.14	3893.29	4072.51	13001.95
Tables	-2932.00	-3701.85	-2926.84	-8164.80	-17725.48
<b>☐ Office Supplies</b>					
Appliances	1924.98	3046.41	5267.47	7842.63	18081.49
Art	1392.37	1498.54	1408.05	2212.83	6511.79
Binders	5185.85	6673.14	10662.04	7772.85	30293.87
Envelopes	1472.80	1860.72	2188.90	1441.76	6964.18
Fasteners	178.56	160.94	305.07	289.53	934.10
Labels	1106.52	1502.52	1189.42	1713.03	5511.48
Paper	6178.42	6722.76	9067.03	11956.59	33924.79
Storage	4051.66	3634.18	6221.33	7139.82	21047.00
Supplies	476.76	-10.32	-708.52	-952.04	-1194.13
■ Technology					
Accessories	5351.53	11248.46	9650.76	15685.88	41936.64
Copiers	2912.94	9930.30	17742.79	25031.79	55617.82
Machines	81.19	2978.75	3580.99	-3256.17	3384.76
Phones	11761.09	10389.76	9492.87	12842.59	44486.32
Grand Total	47292.73	62881.53	82941.10	92346.88	285462.23

6. **Top 5 Customers**: Shows top 5 customers in terms of sales.

Top Custom(  ▼	Sum of Sales
Sean Miller	25,043.05
Tamara Chand	19,052.22
Raymond Buch	15,117.34
Tom Ashbrook	14,595.62
Adrian Barton	14,473.57
<b>Grand Total</b>	88,281.80