ASSIGNMENT-4

Data Analytics with IBM Cognos

Task:

Need to do 2 LOD (Level of Detail expressions), and Basic Calculations.

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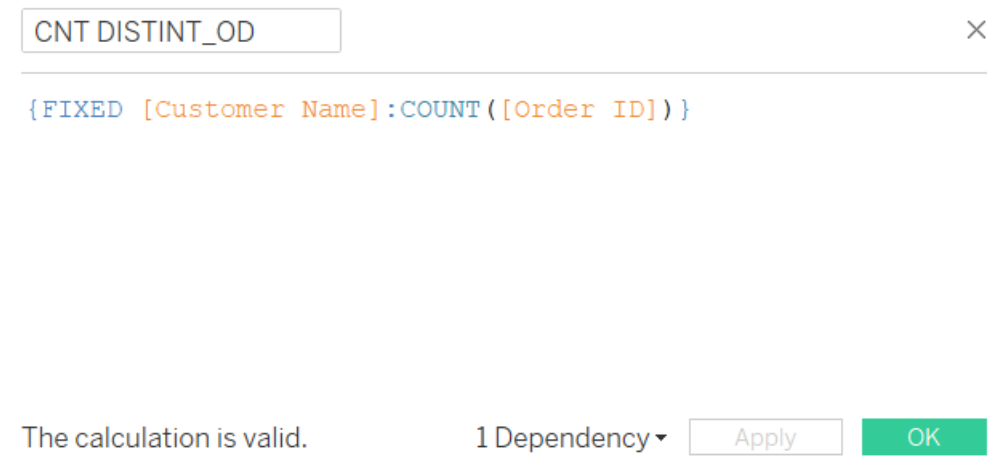
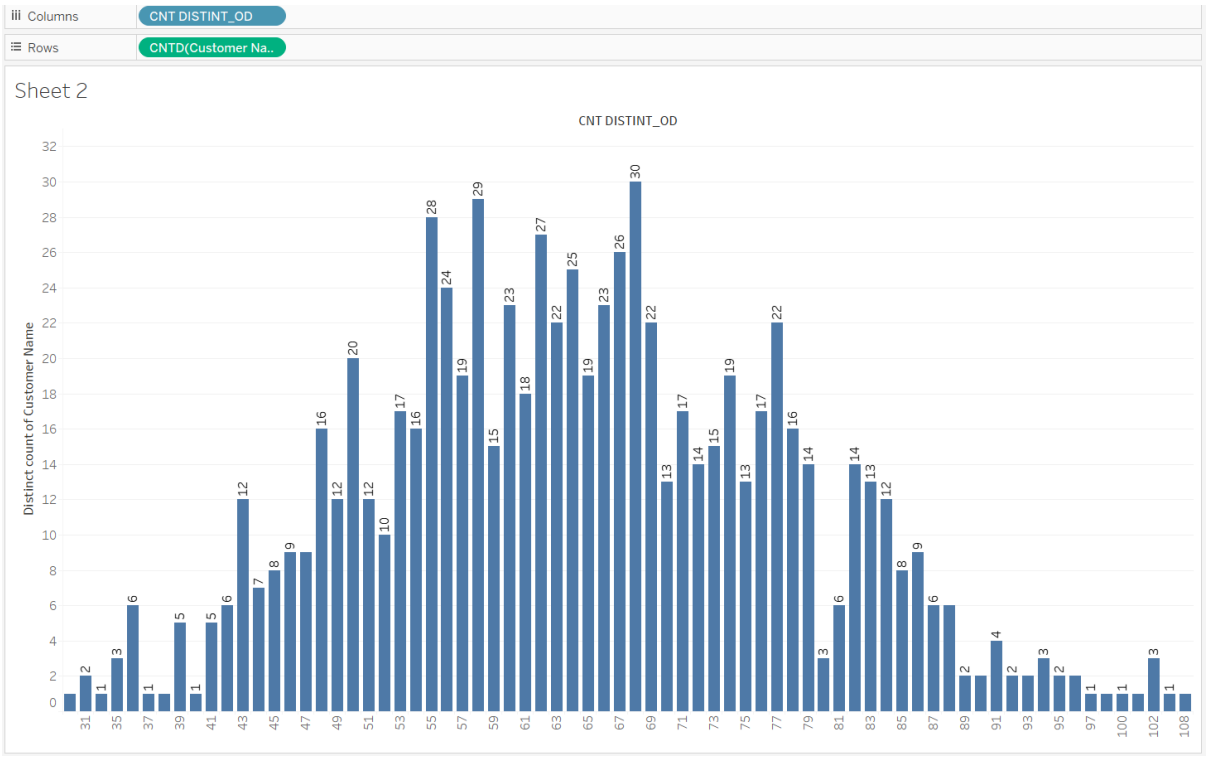
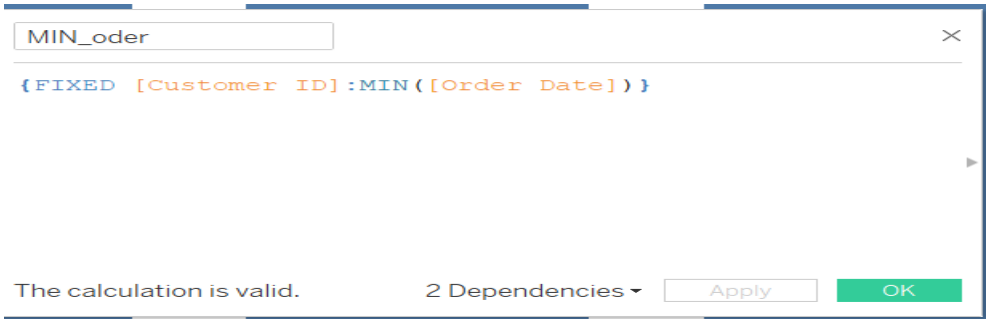
Level of Detail expressions (LOD):

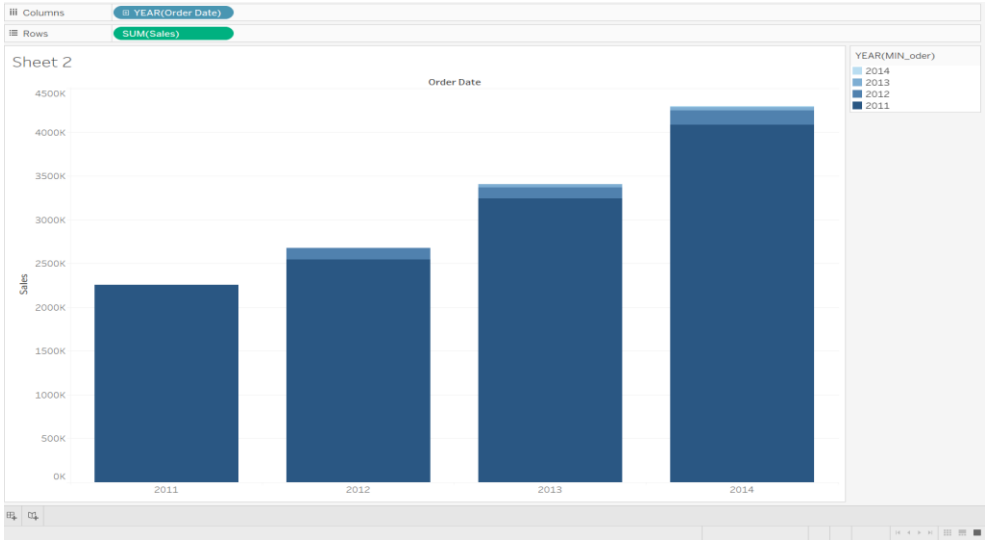
1. Customer order frequency:

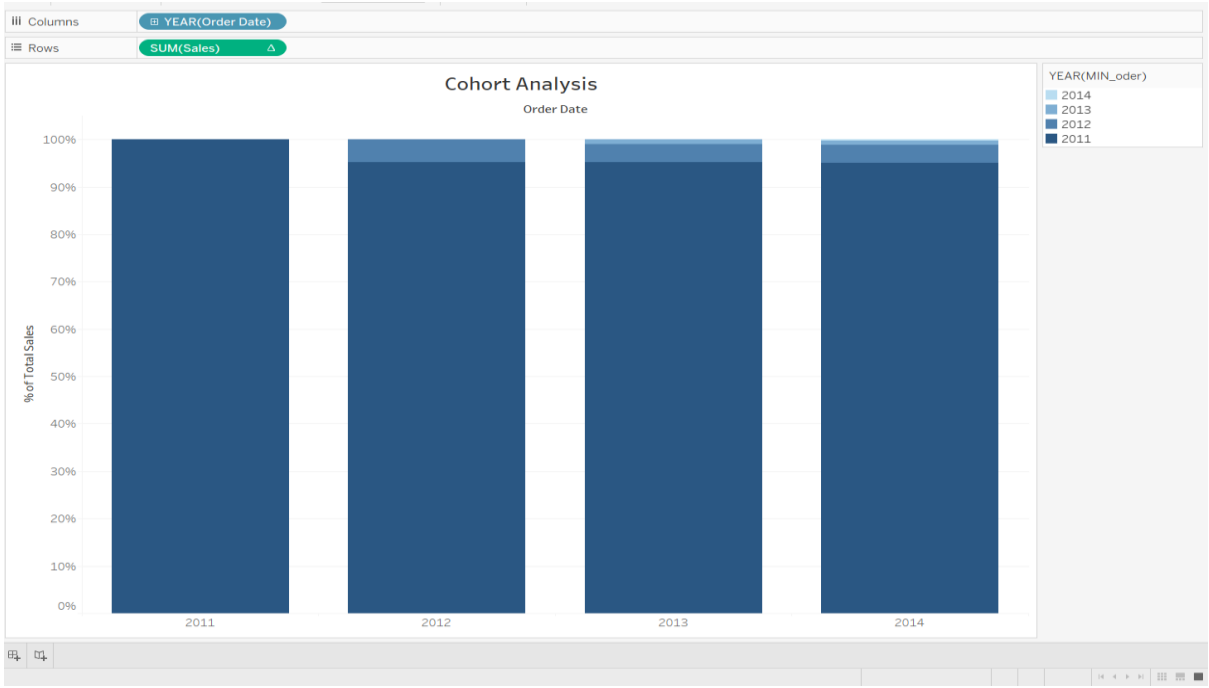




2. Cohort analysis:

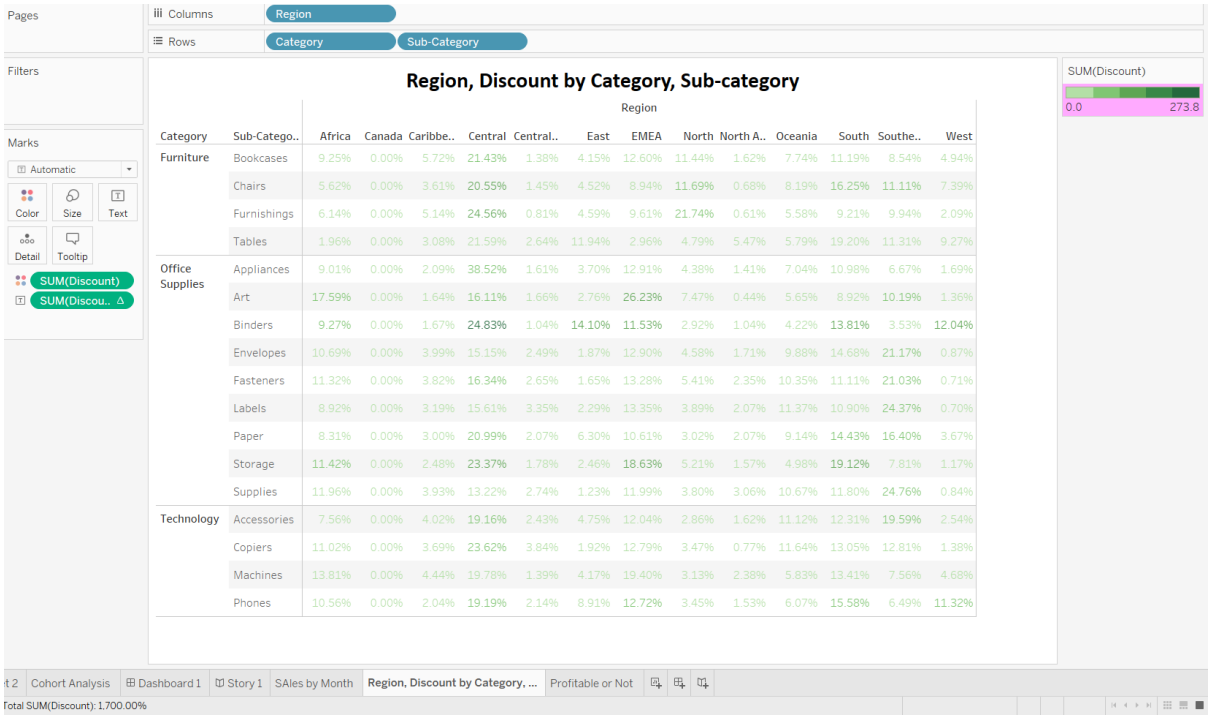






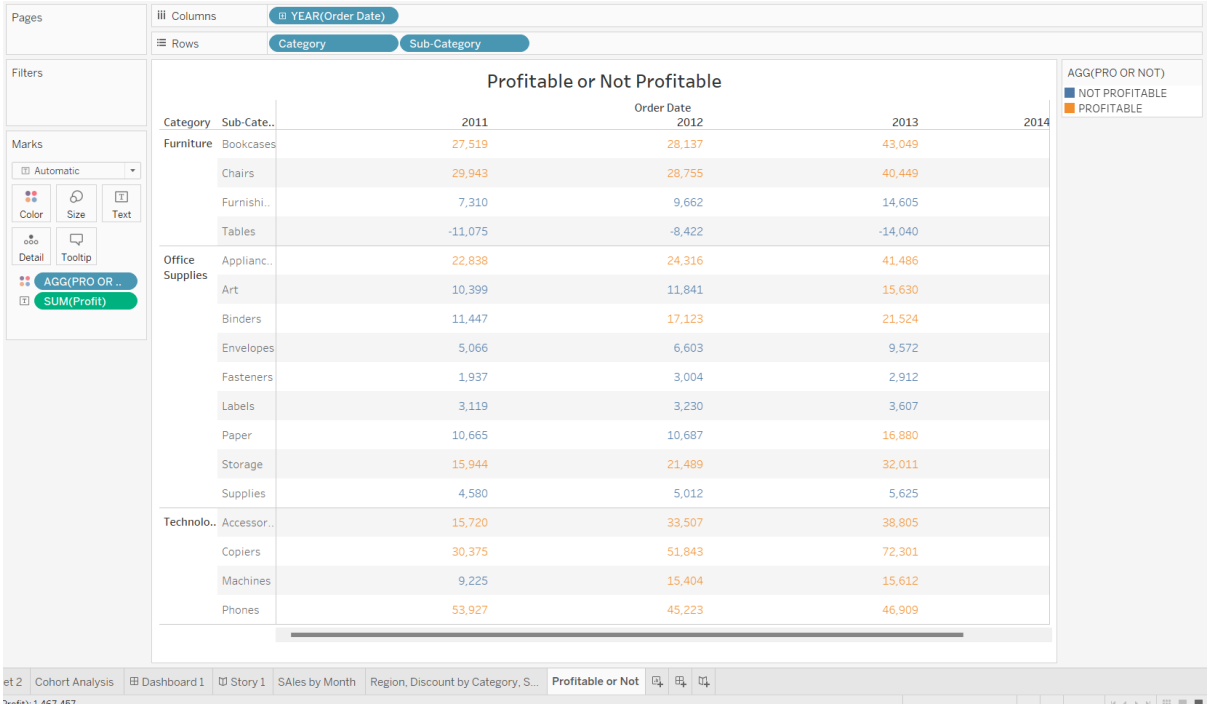
Basic Calculations:

1) Region, Discount by Category, Sub-category:



Category	Sub-Catego..	Africa	Canada	Caribbe..	Central	Central..	East	EMEA	North	North A..	Oceania	South	Southe..	West
		Region												
Furniture	Bookcases	9.25%	0.00%	5.72%	21.43%	1.38%	4.15%	12.60%	11.44%	1.62%	7.74%	11.19%	8.54%	4.94%
	Chairs	5.62%	0.00%	3.61%	20.55%	1.45%	4.52%	8.94%	11.69%	0.68%	8.19%	16.25%	11.11%	7.39%
	Furnishings	6.14%	0.00%	5.14%	24.56%	0.81%	4.59%	9.61%	21.74%	0.61%	5.58%	9.21%	9.94%	2.09%
	Tables	1.96%	0.00%	3.08%	21.59%	2.64%	11.94%	2.96%	4.79%	5.47%	5.79%	19.20%	11.31%	9.27%
Office Supplies	Appliances	9.01%	0.00%	2.09%	38.52%	1.61%	3.70%	12.91%	4.38%	1.41%	7.04%	10.98%	6.67%	1.69%
	Art	17.59%	0.00%	1.64%	16.11%	1.66%	2.76%	26.23%	7.47%	0.44%	5.65%	8.92%	10.19%	1.36%
	Binders	9.27%	0.00%	1.67%	24.83%	1.04%	14.10%	11.53%	2.92%	1.04%	4.22%	13.81%	3.53%	12.04%
	Envelopes	10.69%	0.00%	3.99%	15.15%	2.49%	1.87%	12.90%	4.58%	1.71%	9.88%	14.68%	21.17%	0.87%
	Fasteners	11.32%	0.00%	3.82%	16.34%	2.65%	1.65%	13.28%	5.41%	2.35%	10.35%	11.11%	21.03%	0.71%
	Labels	8.92%	0.00%	3.19%	15.61%	3.35%	2.29%	13.35%	3.89%	2.07%	11.37%	10.90%	24.37%	0.70%
	Paper	8.31%	0.00%	3.00%	20.99%	2.07%	6.30%	10.61%	3.02%	2.07%	9.14%	14.43%	16.40%	3.67%
	Storage	11.42%	0.00%	2.48%	23.37%	1.78%	2.46%	18.63%	5.21%	1.57%	4.98%	19.12%	7.81%	1.17%
	Supplies	11.96%	0.00%	3.93%	13.22%	2.74%	1.23%	11.99%	3.80%	3.06%	10.67%	11.80%	24.76%	0.84%
Technology	Accessories	7.56%	0.00%	4.02%	19.16%	2.43%	4.75%	12.04%	2.86%	1.62%	11.12%	12.31%	19.59%	2.54%
	Copiers	11.02%	0.00%	3.69%	23.62%	3.84%	1.92%	12.79%	3.47%	0.77%	11.64%	13.05%	12.81%	1.38%
	Machines	13.81%	0.00%	4.44%	19.78%	1.39%	4.17%	19.40%	3.13%	2.38%	5.83%	13.41%	7.56%	4.68%
	Phones	10.56%	0.00%	2.04%	19.19%	2.14%	8.91%	12.72%	3.45%	1.53%	6.07%	15.58%	6.49%	11.32%

2)Profitable or Not:



Category	Sub-Cate..	2011	2012	2013	2014
		Order Date			
Furniture	Bookcases	27,519	28,137	43,049	
	Chairs	29,943	28,755	40,449	
	Furnishi..	7,310	9,662	14,605	
	Tables	-11,075	-8,422	-14,040	
Office Supplies	Applianc..	22,838	24,316	41,486	
	Art	10,399	11,841	15,630	
	Binders	11,447	17,123	21,524	
	Envelopes	5,066	6,603	9,572	
	Fasteners	1,937	3,004	2,912	
	Labels	3,119	3,230	3,607	
	Paper	10,665	10,687	16,880	
	Storage	15,944	21,489	32,011	
	Supplies	4,580	5,012	5,625	
Technolo..	Accessor..	15,720	33,507	38,805	
	Copiers	30,375	51,843	72,301	
	Machines	9,225	15,404	15,612	
	Phones	53,927	45,223	46,909	