

# **ASSIGNMENT-4**

## **Data Analytics with IBM Cognos**

### **Task:**

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

**Name:** J. Abhiram

**Regno:** 21BCB7107

# Level of Detail expressions (LOD):

## 1. Customer order frequency:

CNT DISTINCT\_OD

×

{FIXED [Customer Name]:COUNT([Order ID])}

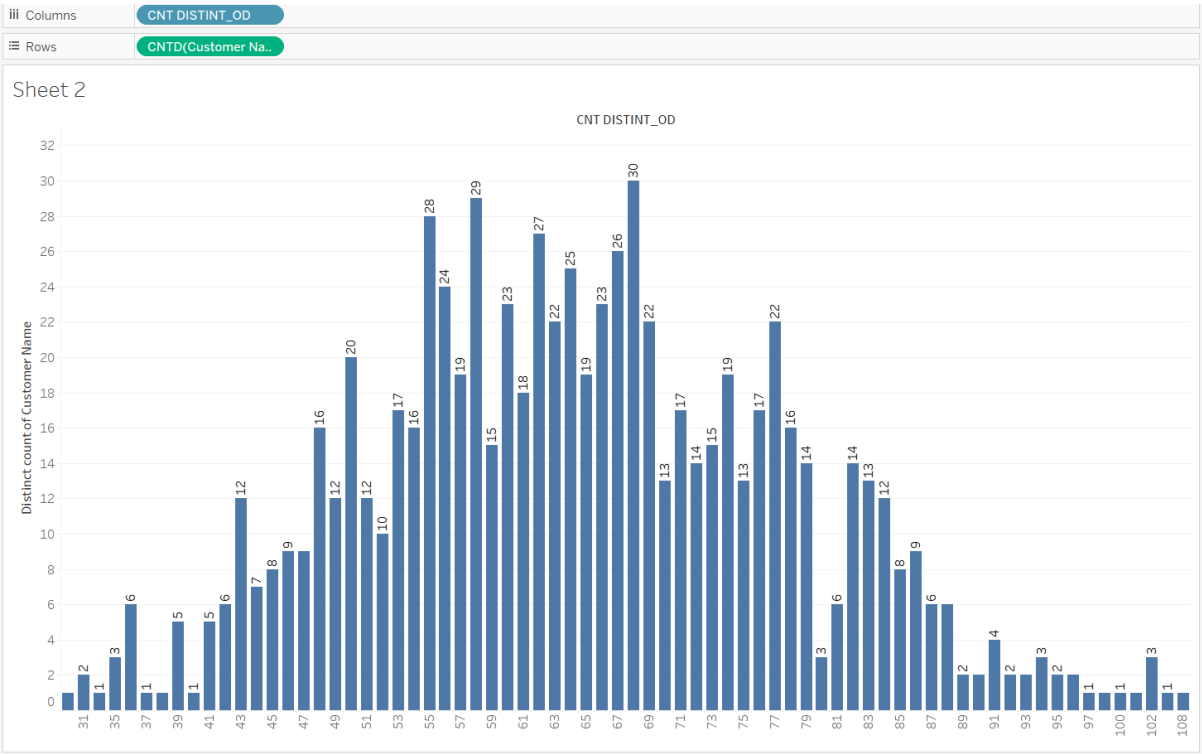
▶

The calculation is valid.

1 Dependency ▾

Apply

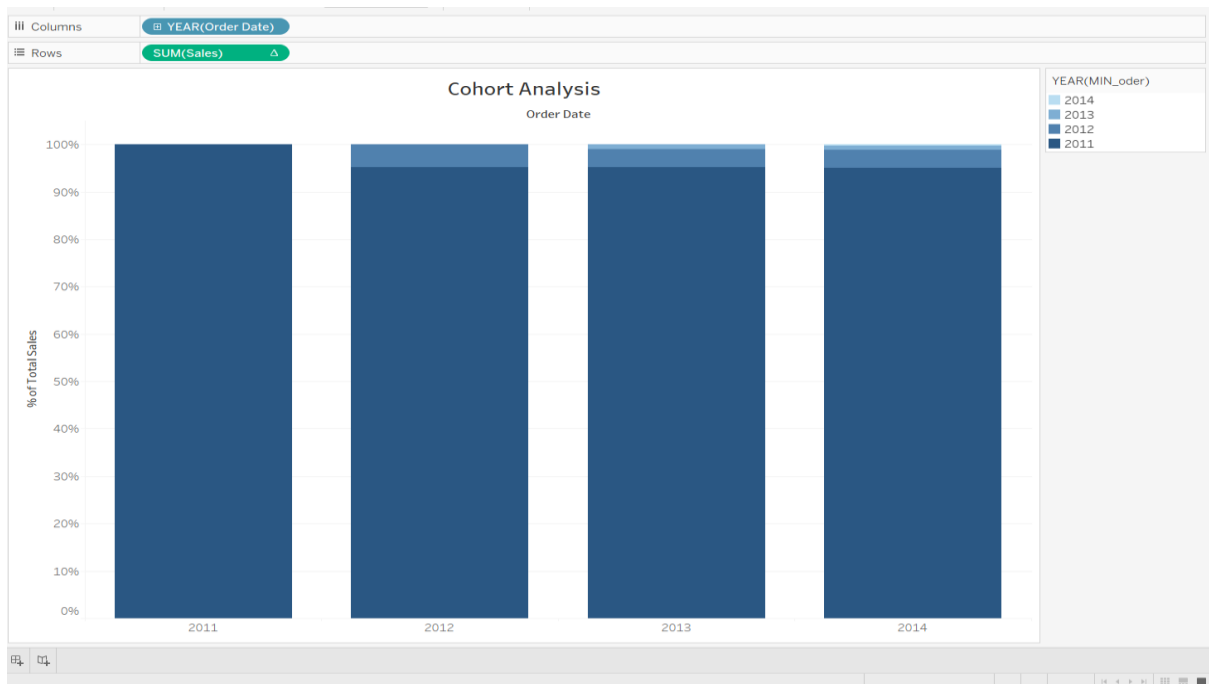
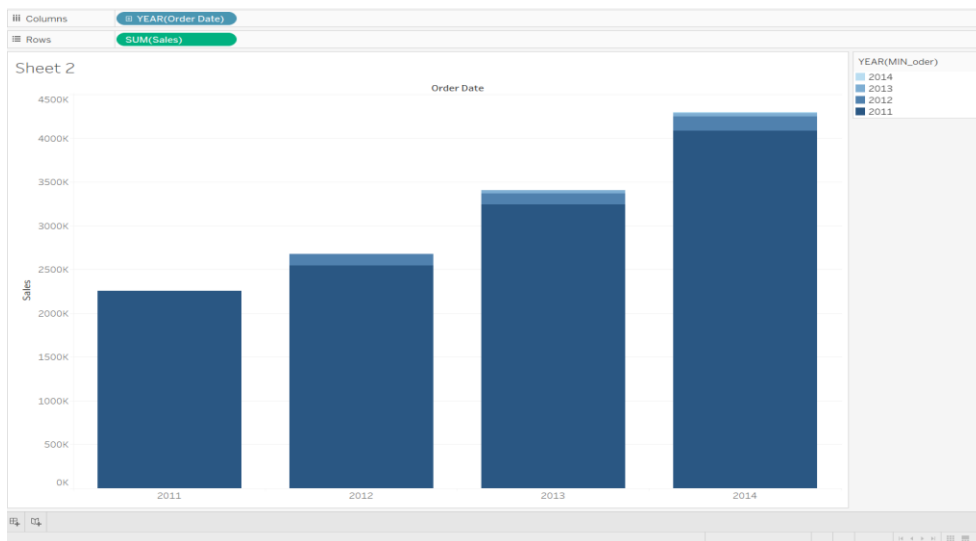
OK



## 2. Cohort analysis:

`{FIXED [Customer ID]:MIN([Order Date])}`

The calculation is valid. 2 Dependencies



### Basic Calculations:

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

Pages

iii Columns

Region

Rows

Category

Sub-Category

Filters

Region, Discount by Category, Sub-category

SUM(Discount)

0.0273.8

Marks

Automatic

Color

Size

Text

Detail

Tooltip

SUM(Discount)

SUM(Discount...)

Category	Sub-Catego..	Africa	Canada	Caribbe..	Central	Central..	East	EMEA	North	North A.	Oceania	South	Southe..	West
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%	7.09%	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 Cohort Analysis

Dashboard 1

Story 1

Sales by Month

Region, Discount by Category, ...

Profitable or Not

Total SUM(Discount): 1,700.00%

</

## 2) Profitable or Not:

Pages

Columns

YEAR(Order Date)

Rows

Category

Sub-Category

Filters

Marks

Automatic

Color

Size

Text

Detail

Tooltip

AGG(PRO OR NOT)

SUM(Profit)

		Profitable or Not Profitable				AGG(PRO OR NOT)
		Order Date				
Category	Sub-Cate..	2011	2012	2013	2014	
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..	Accessori..	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		

et 2

Cohort Analysis

Dashboard 1

Story 1

Sales by Month

Region, Discount by Category, S...

Profitable or Not