# SMART INTERNZ

## DATA ANALYTICS WITH IBM COGNOS

## Assignment-4

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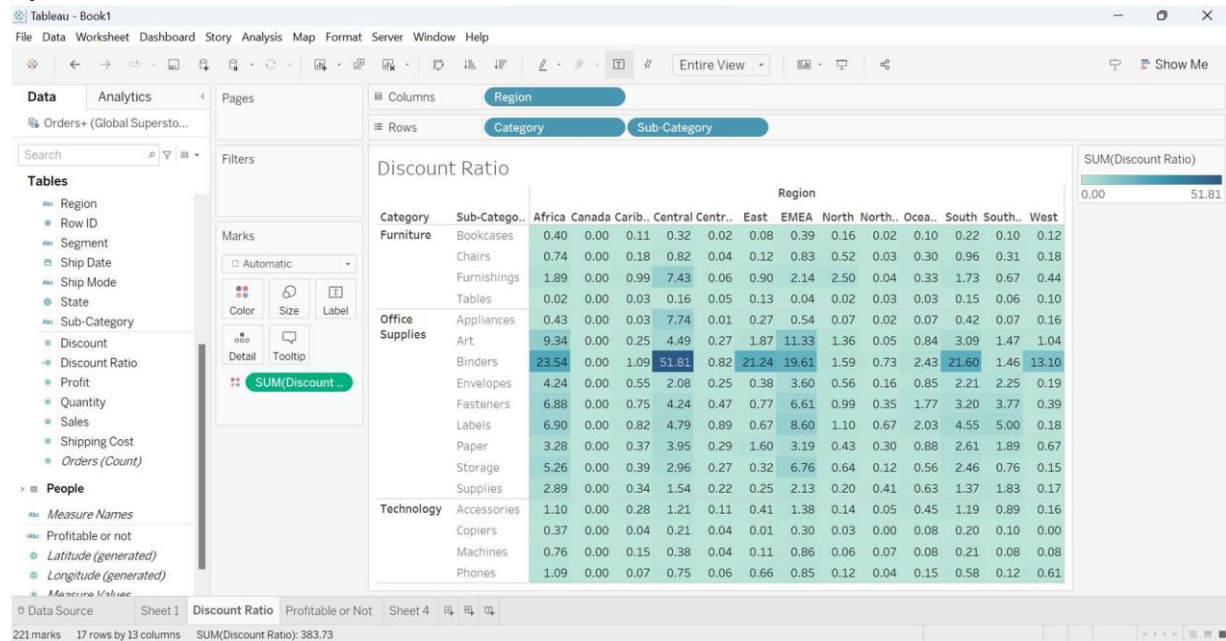**CAMPUS:** VIT-AP

**BRANCH:** CSE-DATA ANALYTICS
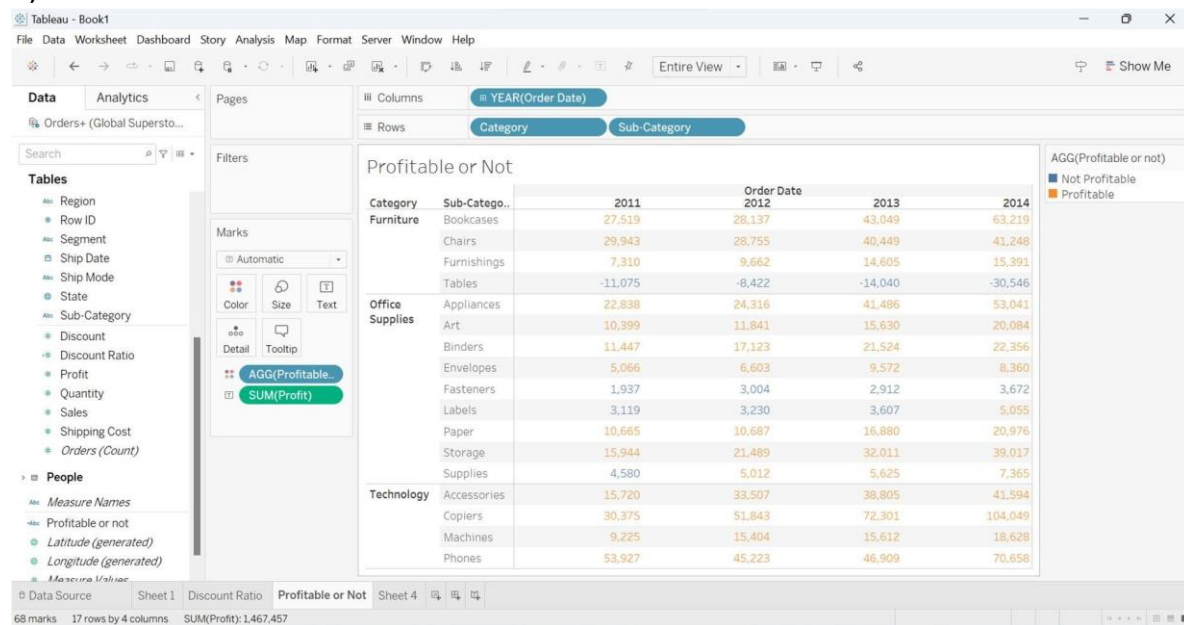
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# Challenge:
Create basic and Lod calculations in Tableau

## Basic Calculations:

### 1) Discount Ratio:



Discount Ratio

| Category | Sub-Catego.. | Africa | Canada | Carib.. | Central | Centr.. | East | EMEA | North | North.. | Ocea.. | South | South.. | West |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Furniture | Bookcases | 0.40 | 0.00 | 0.11 | 0.32 | 0.02 | 0.08 | 0.39 | 0.16 | 0.02 | 0.10 | 0.22 | 0.10 | 0.12 |
| | Chairs | 0.74 | 0.00 | 0.18 | 0.82 | 0.04 | 0.12 | 0.83 | 0.52 | 0.03 | 0.30 | 0.96 | 0.31 | 0.18 |
| | Furnishings | 1.89 | 0.00 | 0.99 | 7.43 | 0.06 | 0.90 | 2.14 | 2.50 | 0.04 | 0.33 | 1.73 | 0.67 | 0.44 |
| | Tables | 0.02 | 0.00 | 0.03 | 0.16 | 0.05 | 0.13 | 0.04 | 0.02 | 0.03 | 0.03 | 0.15 | 0.06 | 0.10 |
| Office Supplies | Appliances | 0.43 | 0.00 | 0.03 | 7.74 | 0.01 | 0.27 | 0.54 | 0.07 | 0.02 | 0.07 | 0.42 | 0.07 | 0.16 |
| | Art | 9.34 | 0.00 | 0.25 | 4.49 | 0.27 | 1.87 | 11.33 | 1.36 | 0.05 | 0.84 | 3.09 | 1.47 | 1.04 |
| | Binders | 23.54 | 0.00 | 1.09 | 51.81 | 0.82 | 21.24 | 19.61 | 1.59 | 0.73 | 2.43 | 21.60 | 1.46 | 13.10 |
| | Envelopes | 4.24 | 0.00 | 0.55 | 2.08 | 0.25 | 0.38 | 3.60 | 0.56 | 0.16 | 0.85 | 2.21 | 2.25 | 0.19 |
| | Fasteners | 6.88 | 0.00 | 0.75 | 4.24 | 0.47 | 0.77 | 6.61 | 0.99 | 0.35 | 1.77 | 3.20 | 3.77 | 0.39 |
| | Labels | 6.90 | 0.00 | 0.82 | 4.79 | 0.89 | 0.67 | 8.60 | 1.10 | 0.67 | 2.03 | 4.55 | 5.00 | 0.18 |
| | Paper | 3.28 | 0.00 | 0.37 | 3.95 | 0.29 | 1.60 | 3.19 | 0.43 | 0.30 | 0.88 | 2.61 | 1.89 | 0.67 |
| | Storage | 5.26 | 0.00 | 0.39 | 2.96 | 0.27 | 0.32 | 6.76 | 0.64 | 0.12 | 0.56 | 2.46 | 0.76 | 0.15 |
| | Supplies | 2.89 | 0.00 | 0.34 | 1.54 | 0.22 | 0.25 | 2.13 | 0.20 | 0.41 | 0.63 | 1.37 | 1.83 | 0.17 |
| Technology | Accessories | 1.10 | 0.00 | 0.28 | 1.21 | 0.11 | 0.41 | 1.38 | 0.14 | 0.05 | 0.45 | 1.19 | 0.89 | 0.16 |
| | Copiers | 0.37 | 0.00 | 0.04 | 0.21 | 0.04 | 0.01 | 0.30 | 0.03 | 0.00 | 0.08 | 0.20 | 0.10 | 0.00 |
| | Machines | 0.76 | 0.00 | 0.15 | 0.38 | 0.04 | 0.11 | 0.86 | 0.06 | 0.07 | 0.08 | 0.21 | 0.08 | 0.08 |
| | Phones | 1.09 | 0.00 | 0.07 | 0.75 | 0.06 | 0.66 | 0.85 | 0.12 | 0.04 | 0.15 | 0.58 | 0.12 | 0.61 |

221 marks    17 rows by 13 columns    SUM(Discount Ratio): 383.73

### 2) Profitable or not:



Profitable or Not

| Category | Sub-Catego.. | 2011 | 2012 | 2013 | 2014 |
|---|---|---|---|---|---|
| Furniture | Bookcases | 27,519 | 28,137 | 43,049 | 63,219 |
| | Chairs | 29,943 | 28,755 | 40,449 | 41,248 |
| | Furnishings | 7,310 | 9,662 | 14,605 | 15,391 |
| | Tables | -11,075 | -8,422 | -14,040 | -30,546 |
| Office Supplies | Appliances | 22,838 | 24,316 | 41,486 | 53,041 |
| | Art | 10,399 | 11,841 | 15,630 | 20,084 |
| | Binders | 11,447 | 17,123 | 21,524 | 22,356 |
| | Envelopes | 5,066 | 6,603 | 9,572 | 8,360 |
| | Fasteners | 1,937 | 3,004 | 2,912 | 3,672 |
| | Labels | 3,119 | 3,230 | 3,607 | 5,055 |
| | Paper | 10,665 | 10,687 | 16,880 | 20,976 |
| | Storage | 15,944 | 21,489 | 32,011 | 39,017 |
| | Supplies | 4,580 | 5,012 | 5,625 | 7,365 |
| Technology | Accessories | 15,720 | 33,507 | 38,805 | 41,594 |
| | Copiers | 30,375 | 51,843 | 72,301 | 104,049 |
| | Machines | 9,225 | 15,404 | 15,612 | 18,628 |
| | Phones | 53,927 | 45,223 | 46,909 | 70,658 |

68 marks    17 rows by 4 columns    SUM(Profit): 1,467,457

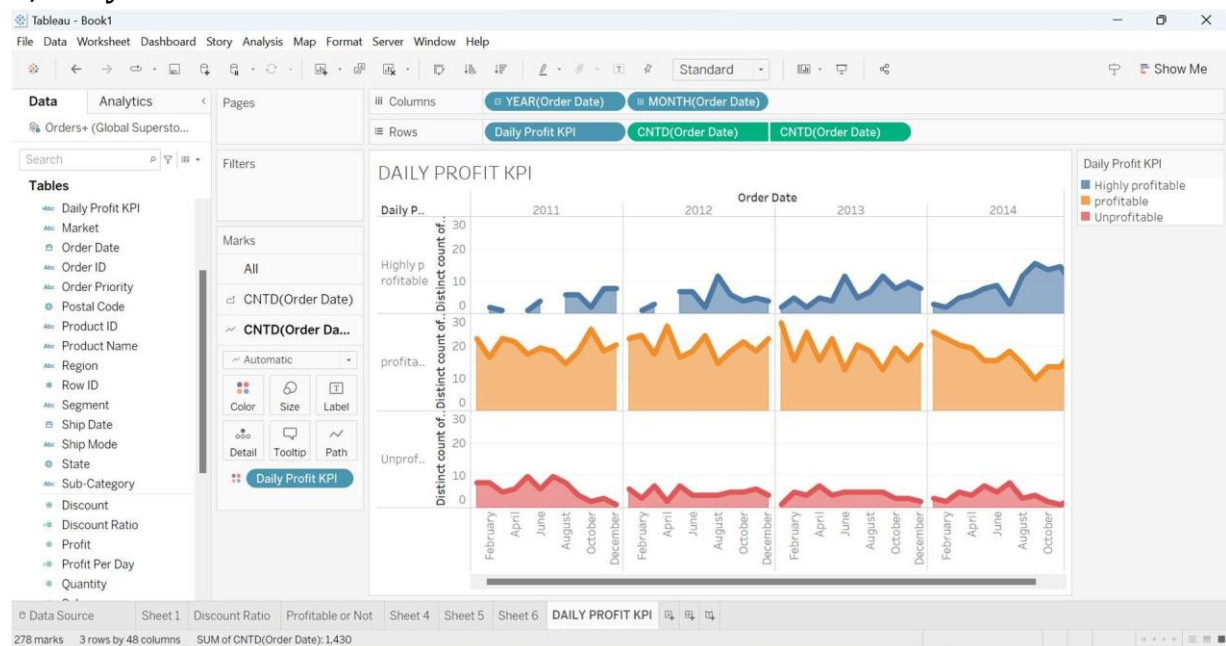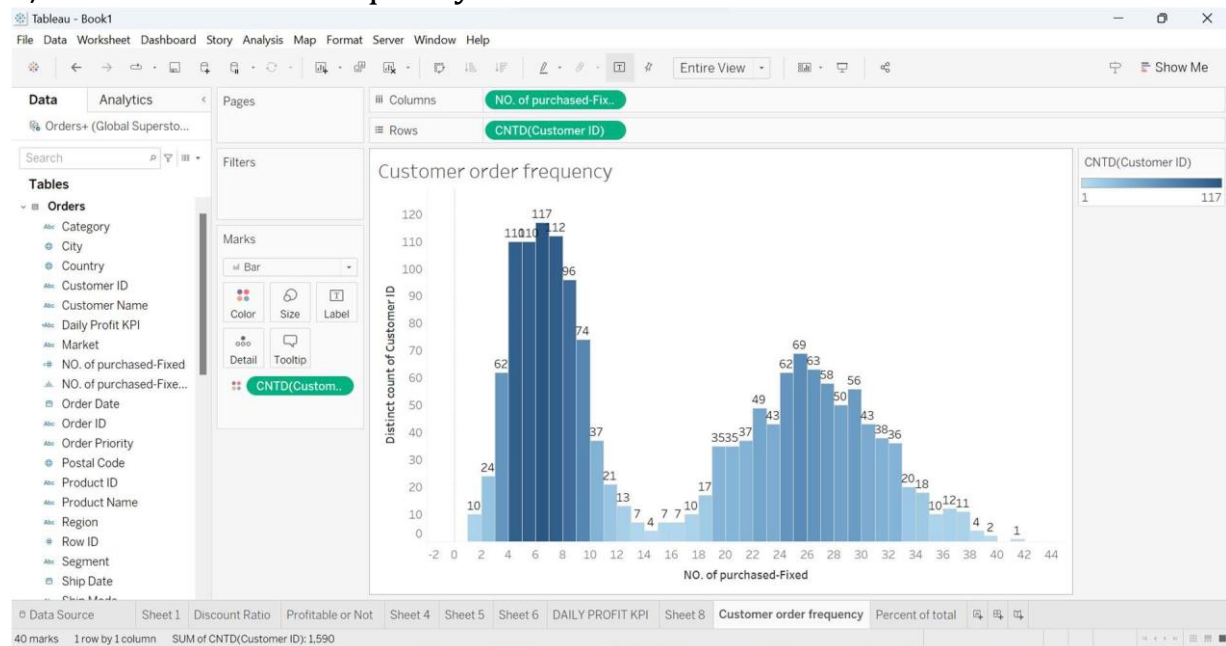# LOD Calculations:

## 1) Daily Profit KPI:



## 2) Customer Order Frequency:

# 3) Percent of Total: