

DA – ASSIGNMENT – 4

Create some Basic calculations and LOD expressions using Global Superstore data and sample Superstore data.

Basic Calculations

1)

Cost ×

[Sales] - [Profit]

▶

The calculation is valid. 1 Dependency ▼ Apply OK

Sign of profit ×

```

IF SUM([Profit]) > 0
THEN "Profitable"
ELSE "Nonprofitable"
END
|

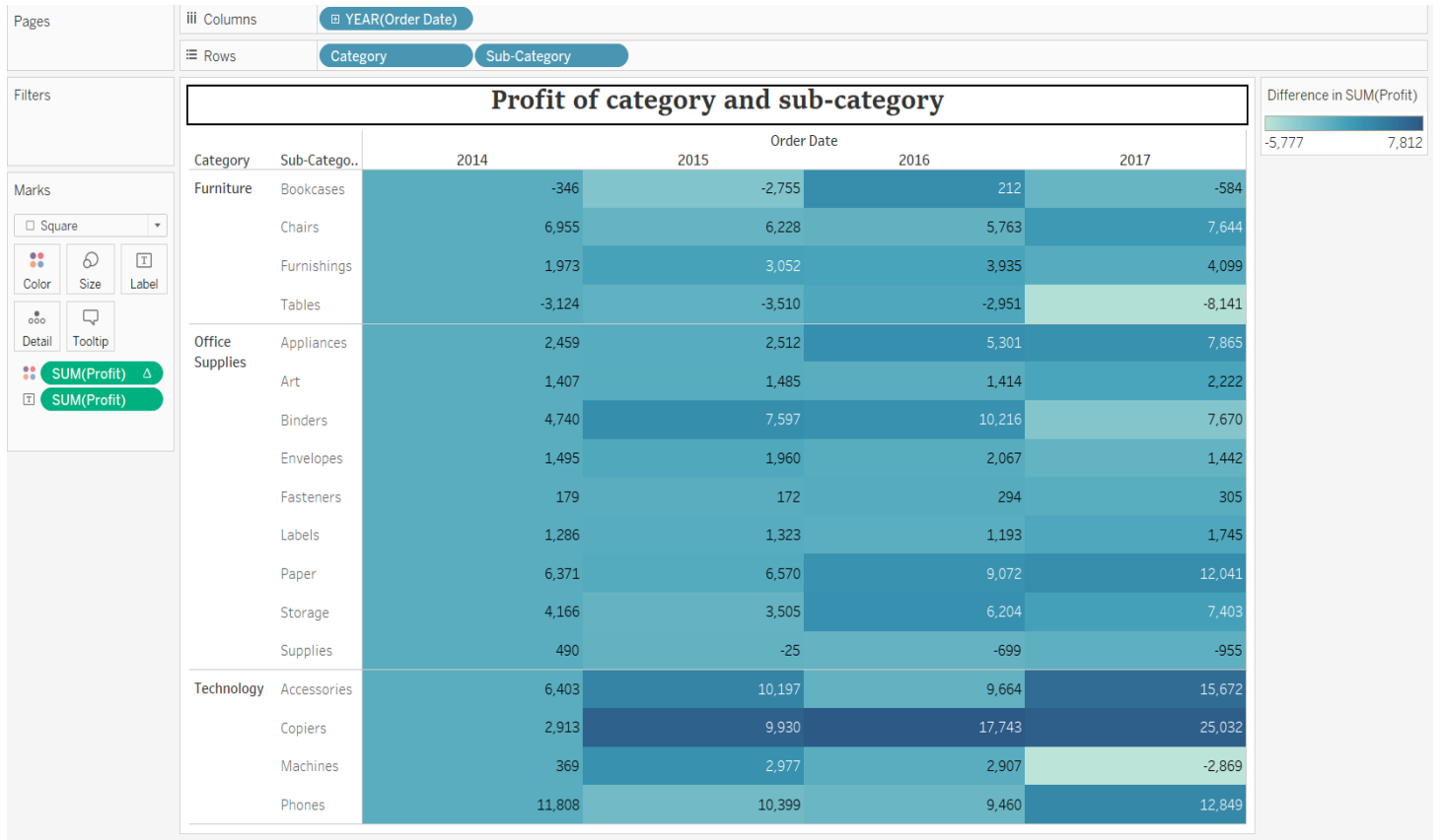
```

▶

The calculation is valid. 1 Dependency ▼ Apply OK



2)

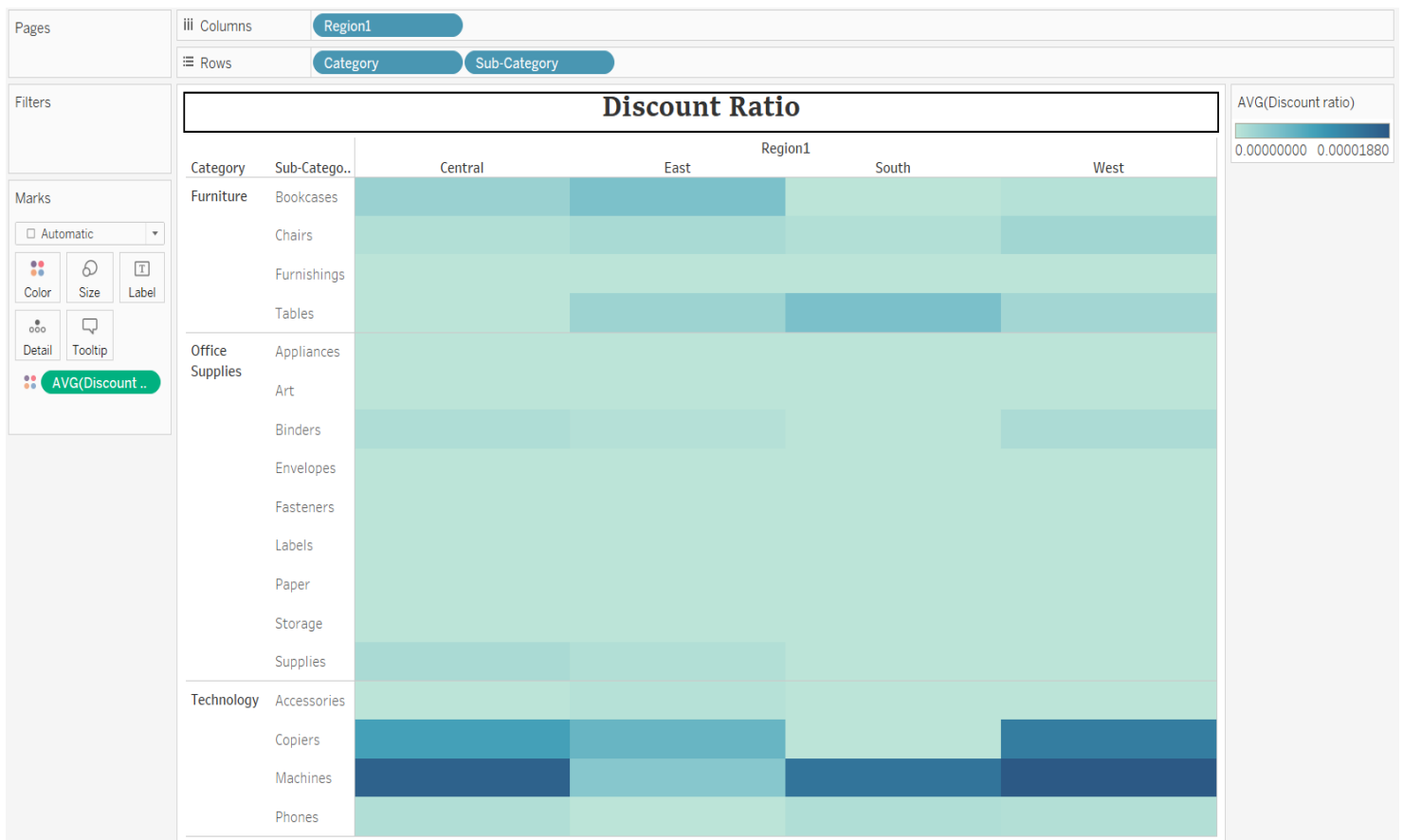


3)

Discount ratio

$$\text{IIF}([\text{Sales}] > 2000, [\text{Discount}]/[\text{Sales}], 0)$$

The calculation is valid.
1 Dependency
Apply
OK



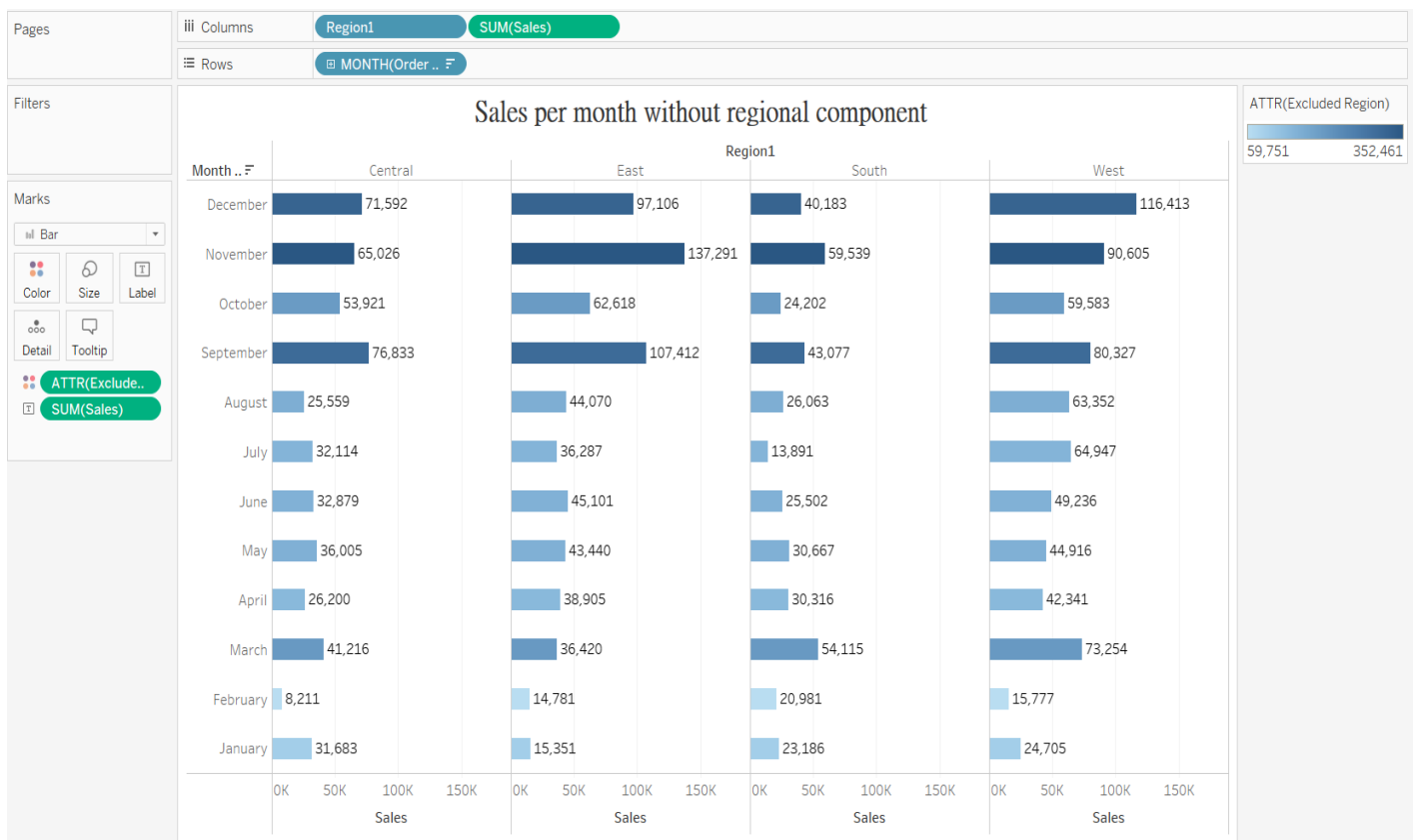
LOD(Level of Detail) Expressions

1)

Excluded Region ×

```
{ EXCLUDE [Region1] : SUM([Sales]) }
```

The calculation is valid. 1 Dependency ▾ Apply OK



2)

sum of sales per state

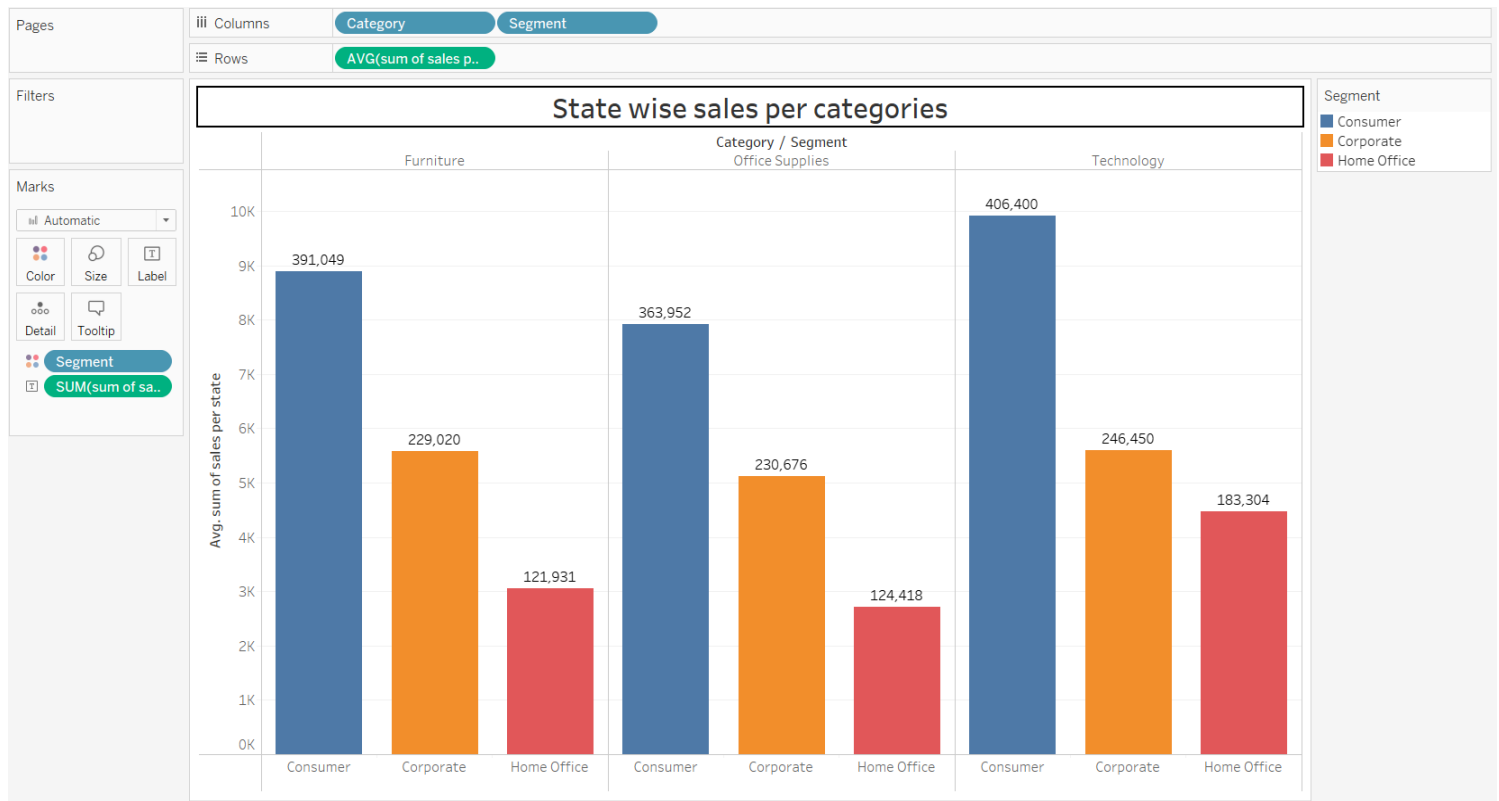
```
{ INCLUDE [State] : SUM([Sales]) }
```

The calculation is valid.

1 Dependency ▾

Apply

OK



3)

Sales per Customer

×

```
{ INCLUDE [Customer Name] : SUM([Sales]) }
```

The calculation is valid.

1 Dependency ▾

Apply

OK



4)

Total Sales by sub-categ ×

{FIXED [Sub-Category] : SUM([Sales]) }

The calculation is valid.

4 Dependencies ▾

Apply

OK

Percent of total ×

SUM([Sales]) / SUM([Total Sales by sub-category])

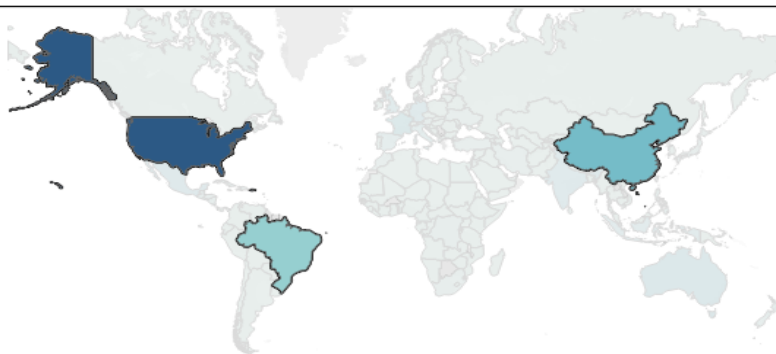
The calculation is valid.

2 Dependencies ▾

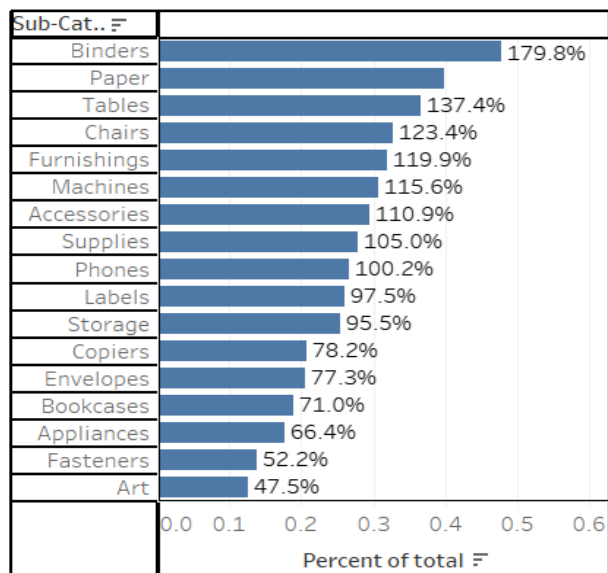
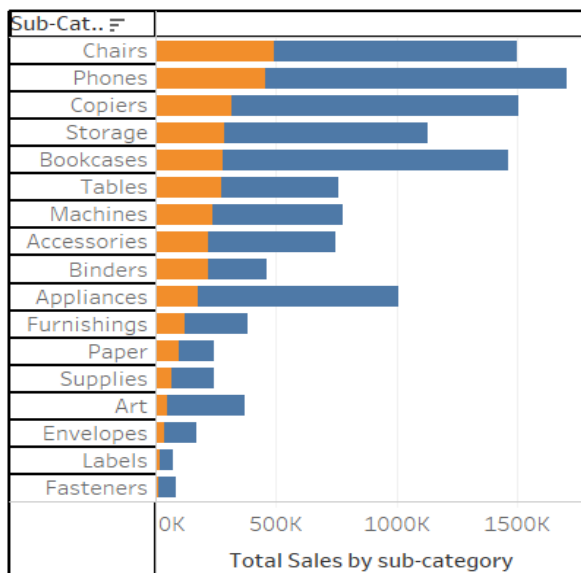
Apply

OK

Proportional brushing



© 2023 Mapbox © OpenStreetMap



Measure Names
 Sales
 Total Sales by s..
 Sales
 151 2M

5)

Daily profit KPI

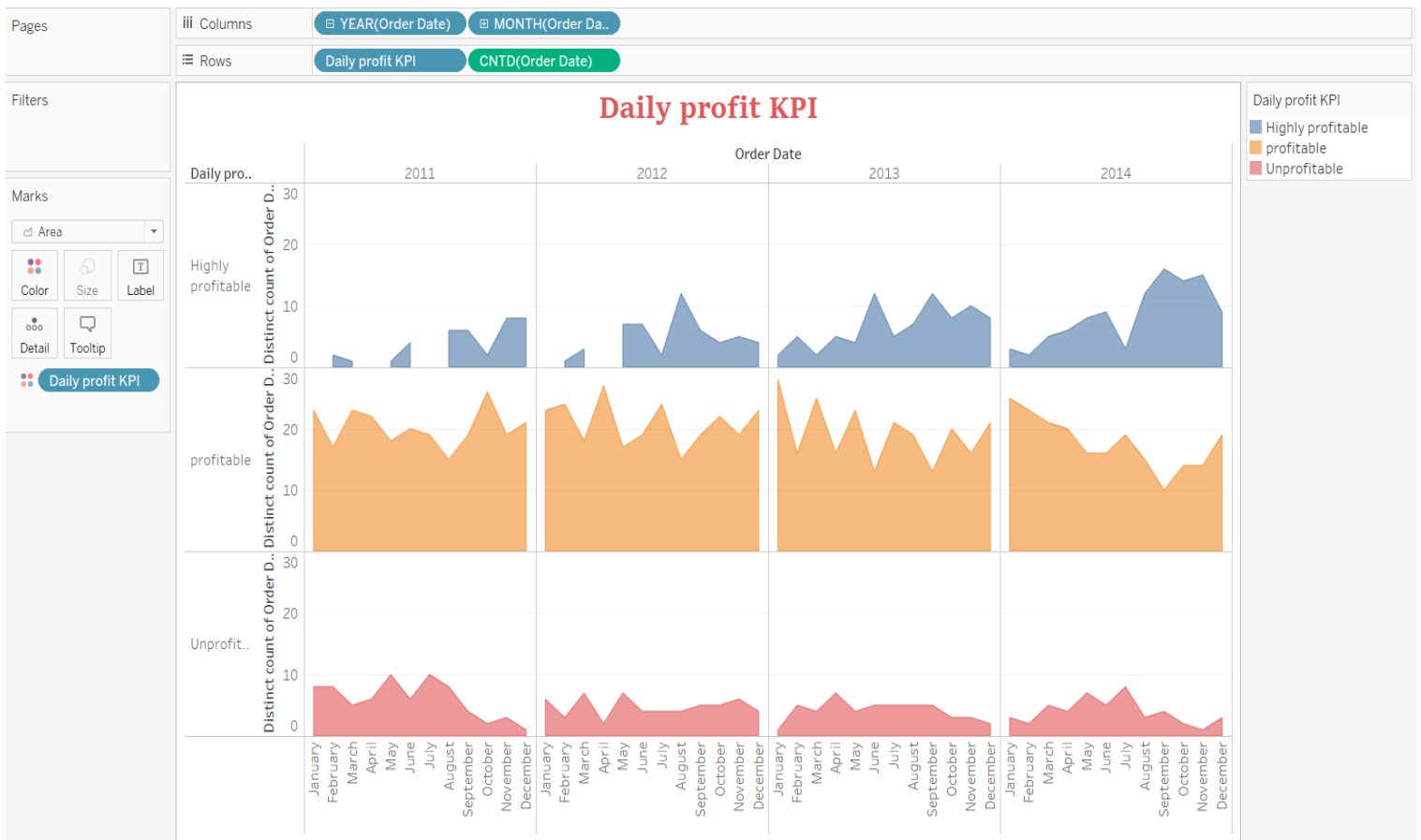
IF [Profit per day] > 2000 THEN "Highly profitable"
 ELSEIF [Profit per day] <=0 THEN "Unprofitable"
 ELSE "profitable"
 END

The calculation is valid. 1 Dependency Apply OK

Profit per day

{ FIXED [Order Date] : SUM([Profit]) }|

The calculation is valid. 2 Dependencies Apply OK



6)

customer Acquisition Da

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

The calculation is valid.
3 Dependencies ▾
Apply
OK

