# DATA ANALYTICS

## ASSIGNMENT-4

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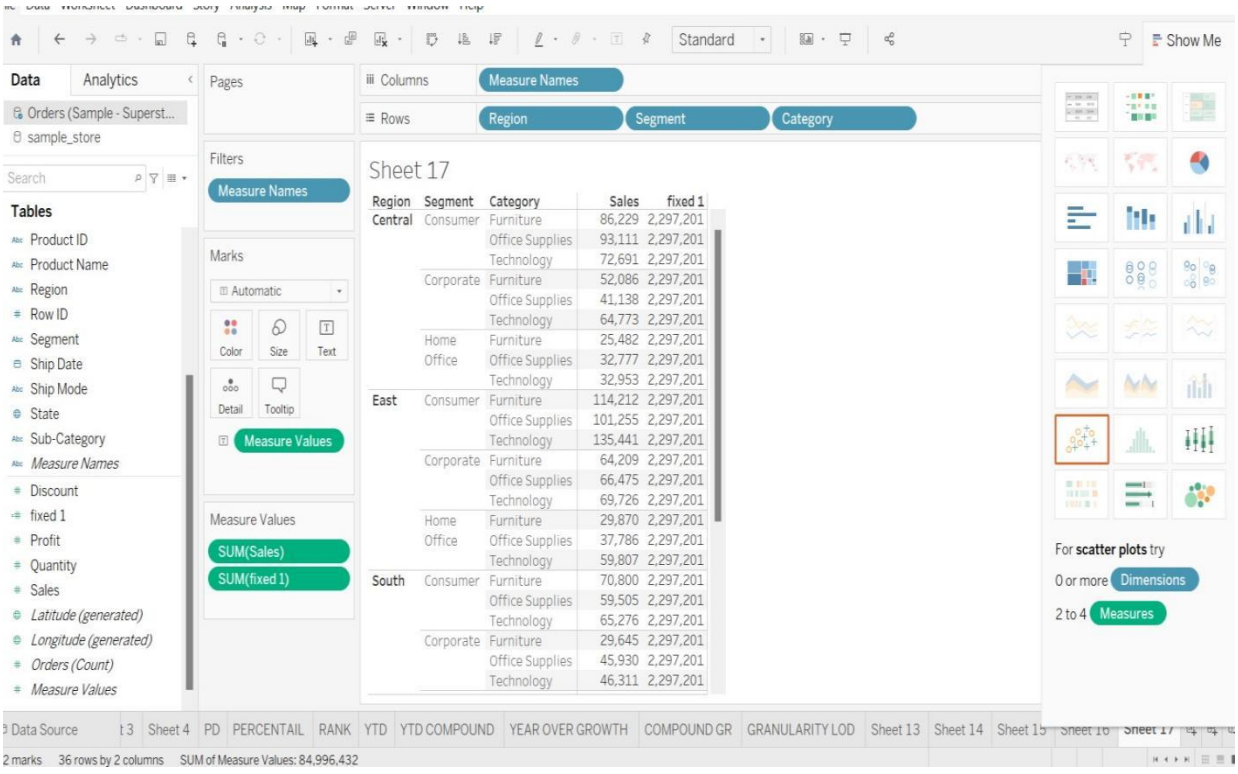
**CreatingFixed LODexpression:**




A fixed LOD (Level of Detail) expression in data analysis is a calculation that maintains

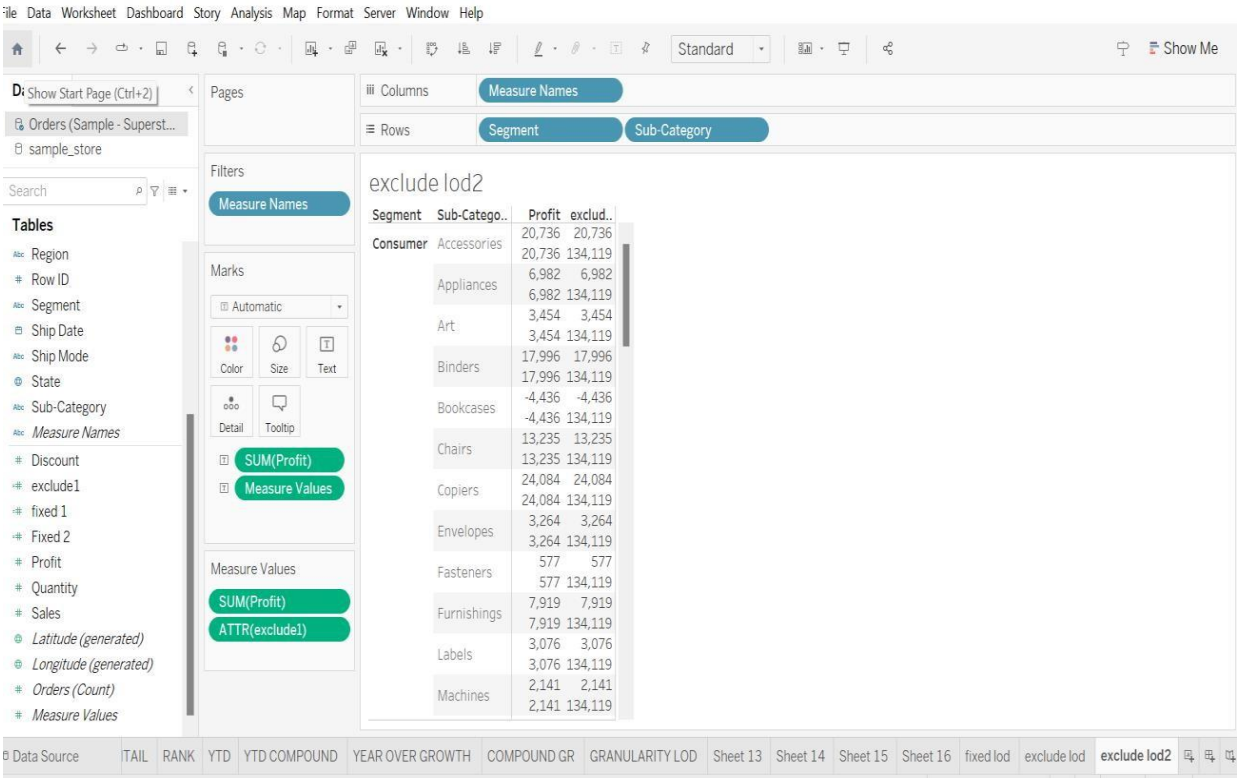
aspecificlevelofdetailregardlessofotherdimensionsorfiltersappliedtothedata. Itprovidesaconsistentreferencepoint foraggregation.

FixedLODmaintainsaspecificlevelofdetail.

{fixed:sum(sales)}:

Salesdistributionbyfixed levelofdetail: calculatesthesum ofsalesatafixedlevelofgranularity,independentof visuvalization’s dimensions.

**CreatingexcludeLODexpression**




ExcludeLODexpression calculatesavalueexcludingcertaindimensionsfromconsideration. Itallows for aggregations that ignore specific dimensions, offering a different perspective on thedata.

ExcludeLODdisregards certaindimensionsinthe calculations

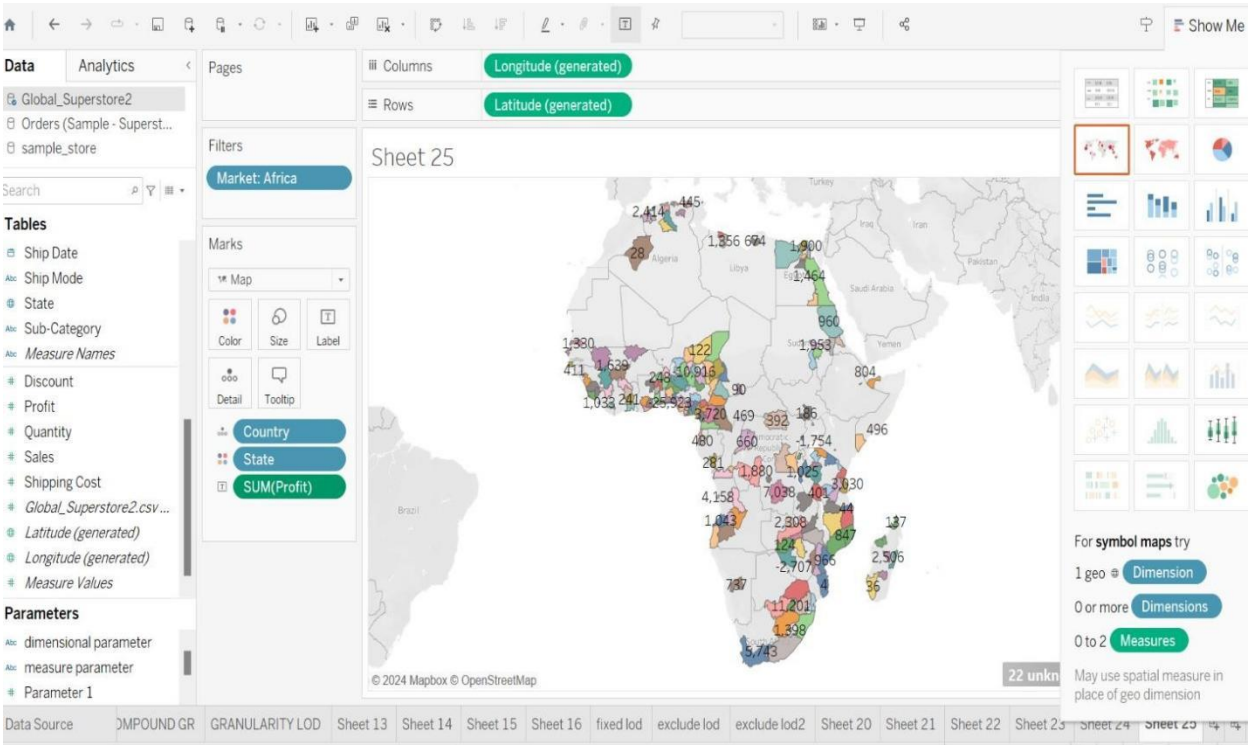
**{Exclude[sub-category]:sum([profit])}**

**Exclude[subcategory]:** Thisisdesignedtoexcludethe“sub-category”dimensions.

**SUM [Profit]:** The aggregation function “sum ()” is applied to “profit” values. It sums up all the profitvalues.

**Creating 2 map visualizations using geographical**

**data.FILLEDMAP:**

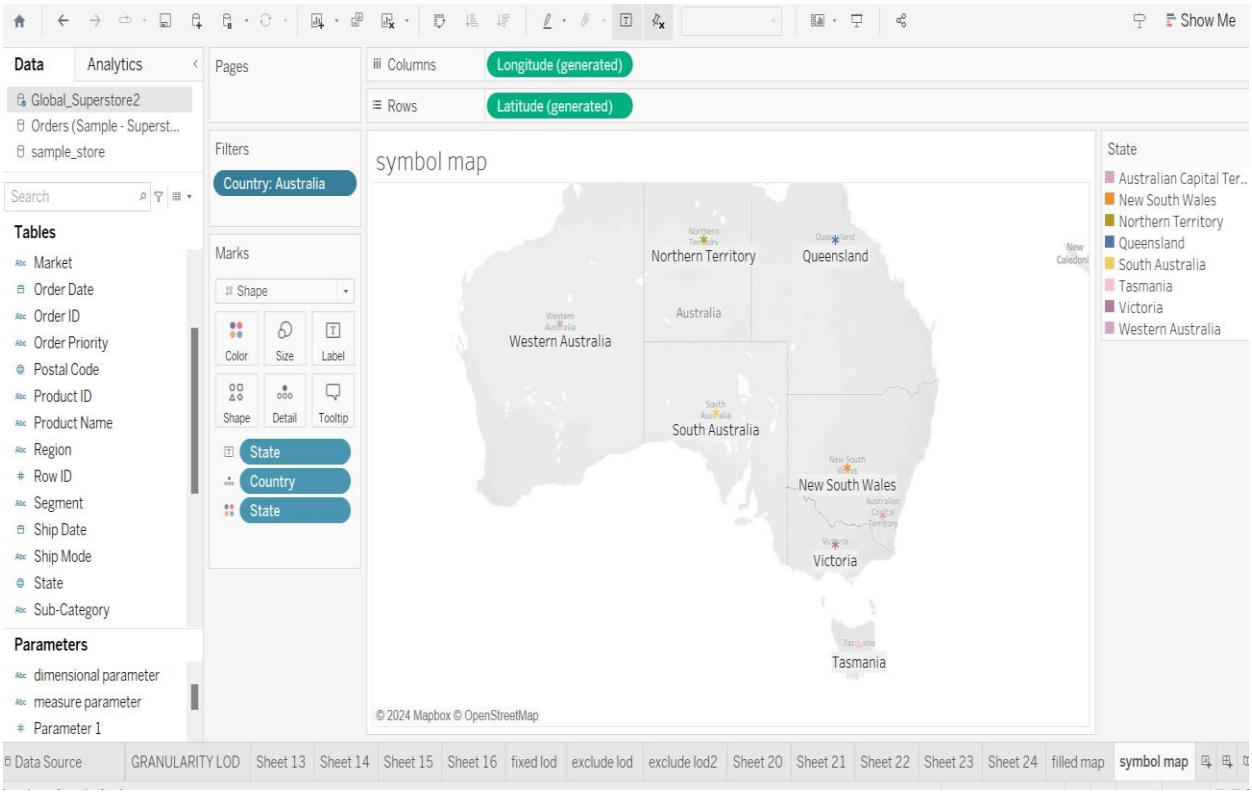



Here I have created a filled map visuvalization first fall I have taken a global store data set whichlikely contains information about sales, profits, and other metrics across different countries andregions.

I have drag a column as longitude and row as latitude .I have drag the country, state ,profit tomark I gave a colour to states and and I have drag a market to filter I have selected Africa ascountry.

Finally filled map visualization that effectively communicates information about profits acrossdifferentstateswithintheselectedAfricanmarket.
Thisvisualizationcanhelpstakeholdersgaininsightsinto regionalprofitability trendsand makeinformed decisionsbased onthe data.

SYMBOLMAP:

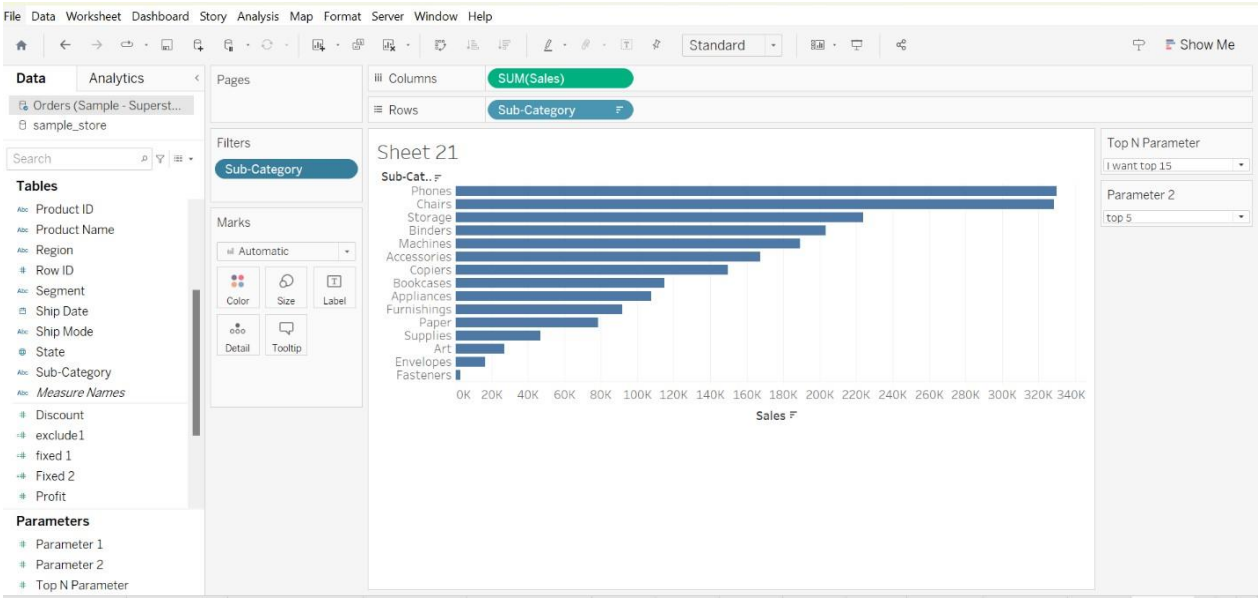


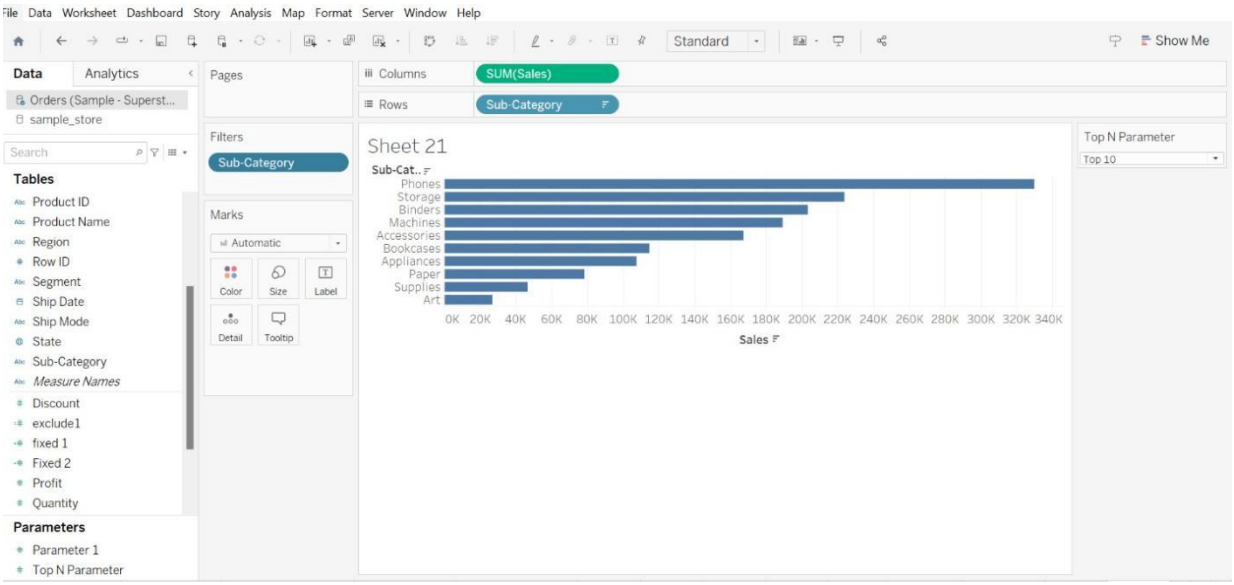

HereIhave created asymbolmap visuvalizationfirstfallIhavetakenaglobalstoredatasetwhich likely contains information about sales, profits, and other metrics across differentcountriesand regions.

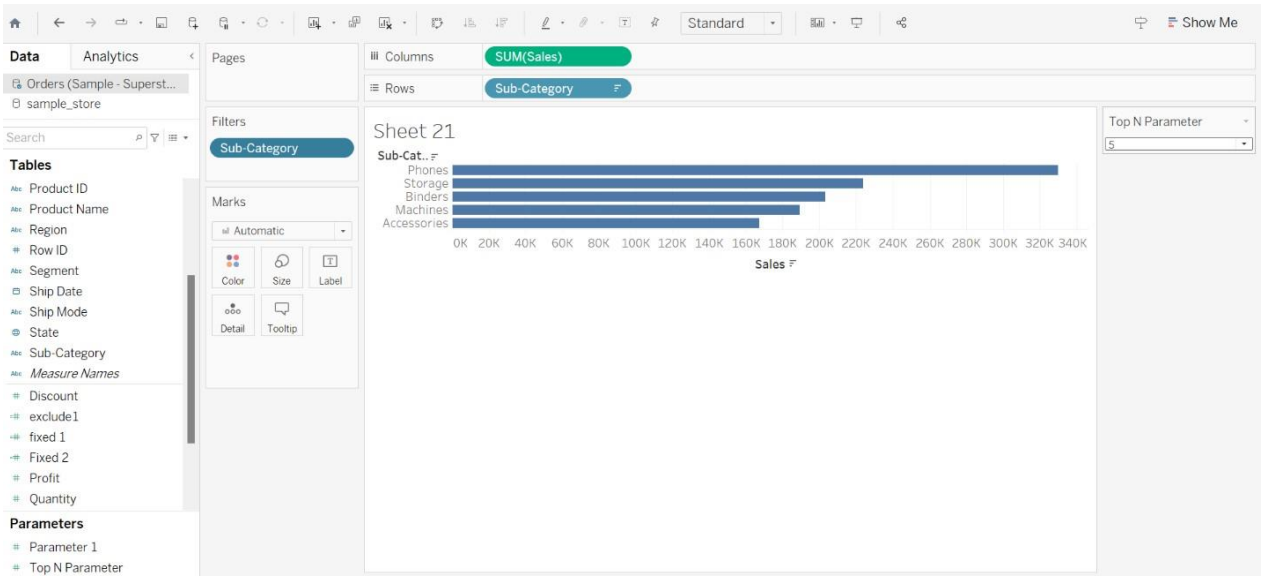
I have drag a column as longitude and row as latitude. I have drag the country, state ,profit tomarkIgaveacolourto statesand andI havedragamarketto filter I haveselected Australiaascountry .And I have enter a shapes in search bar of marks and selected * symbol to create asymbol map.

SymbolmapvisuvalizationforAustraliapowerfulltoolforstrategicdecisionmaking,marketanalysisand operational opitimization.

# CreatingTopNParameters

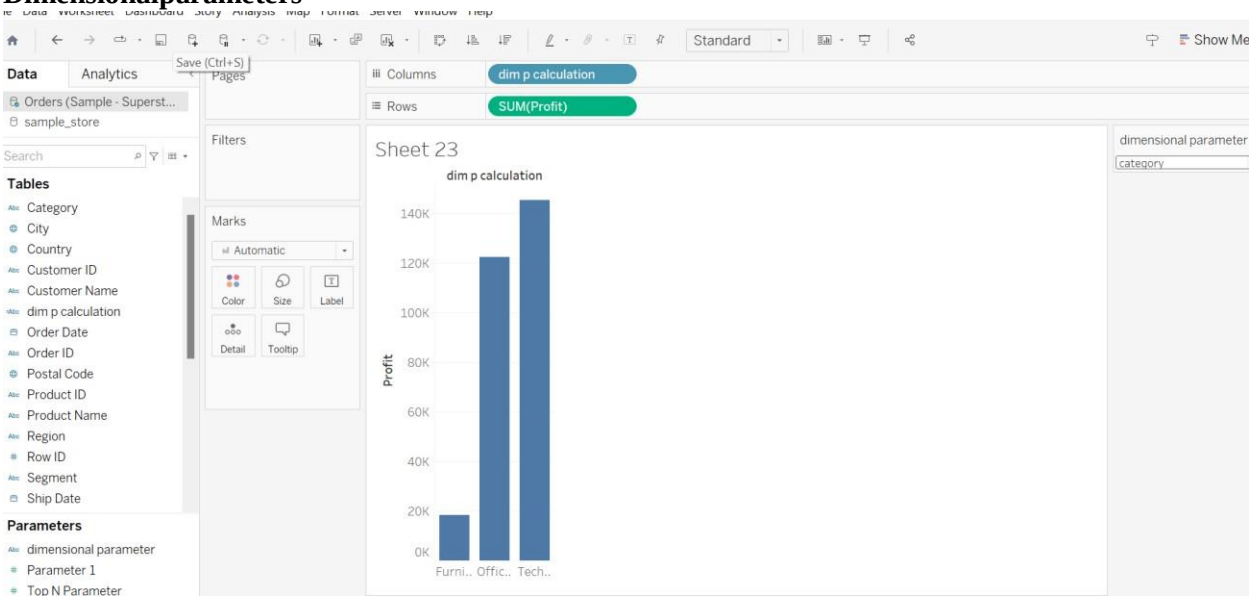


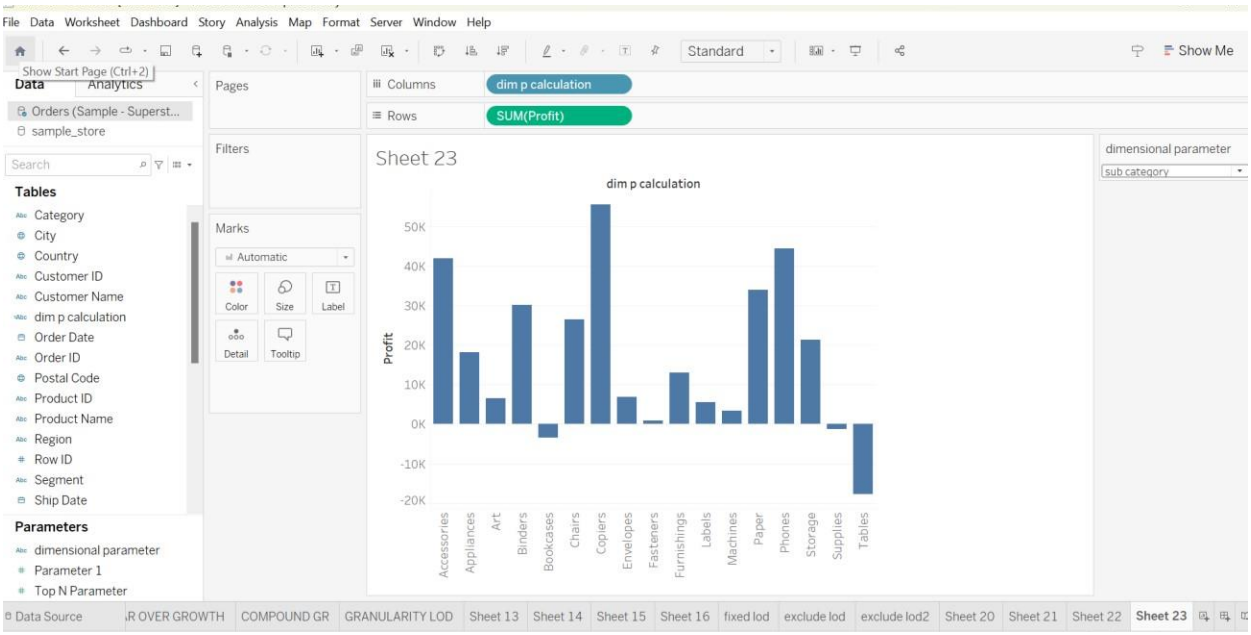



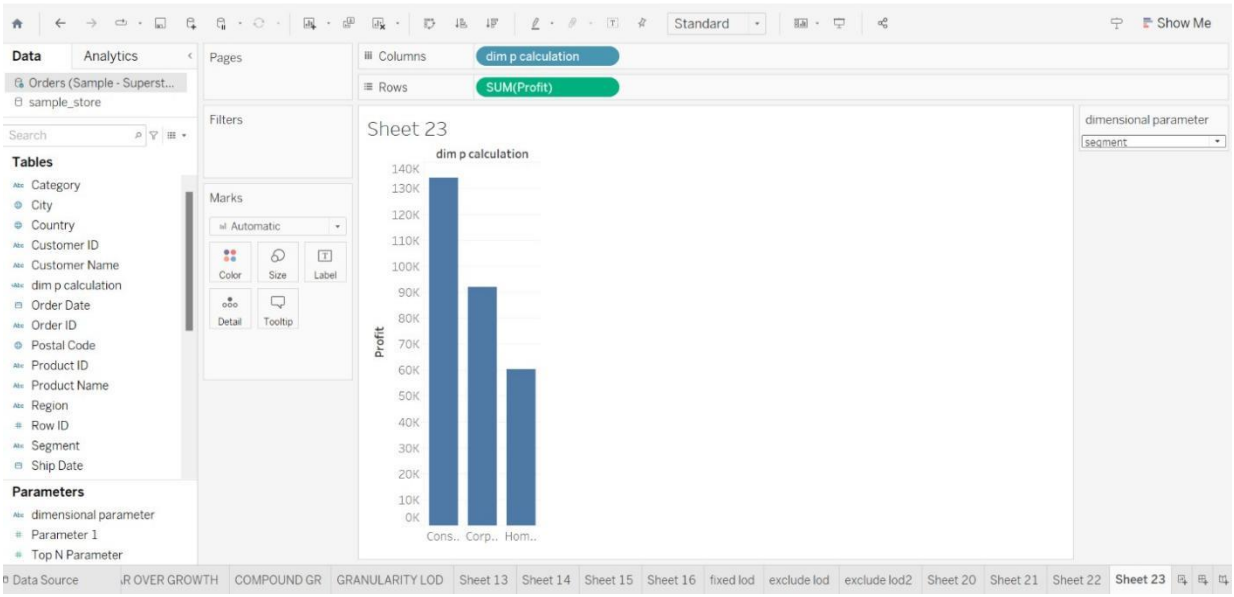



First of all I have to select the sample store data set. And drag the sales to column and row to subcategory. Drop down the creating a parameters and select the integer in the field and select the list opitionandadd thedatalikeIwanttop5andtop10 andtop5inthatplace.ClickonokandIhavecreatedfinally top n parameter. Now we have to click on that and go to show parameters and we have opitions wecam click on that we get Top 15,Top 10,Top 5 subcategories. Focus on most significant data points andgaininsights.

**Dimensionalparameters**

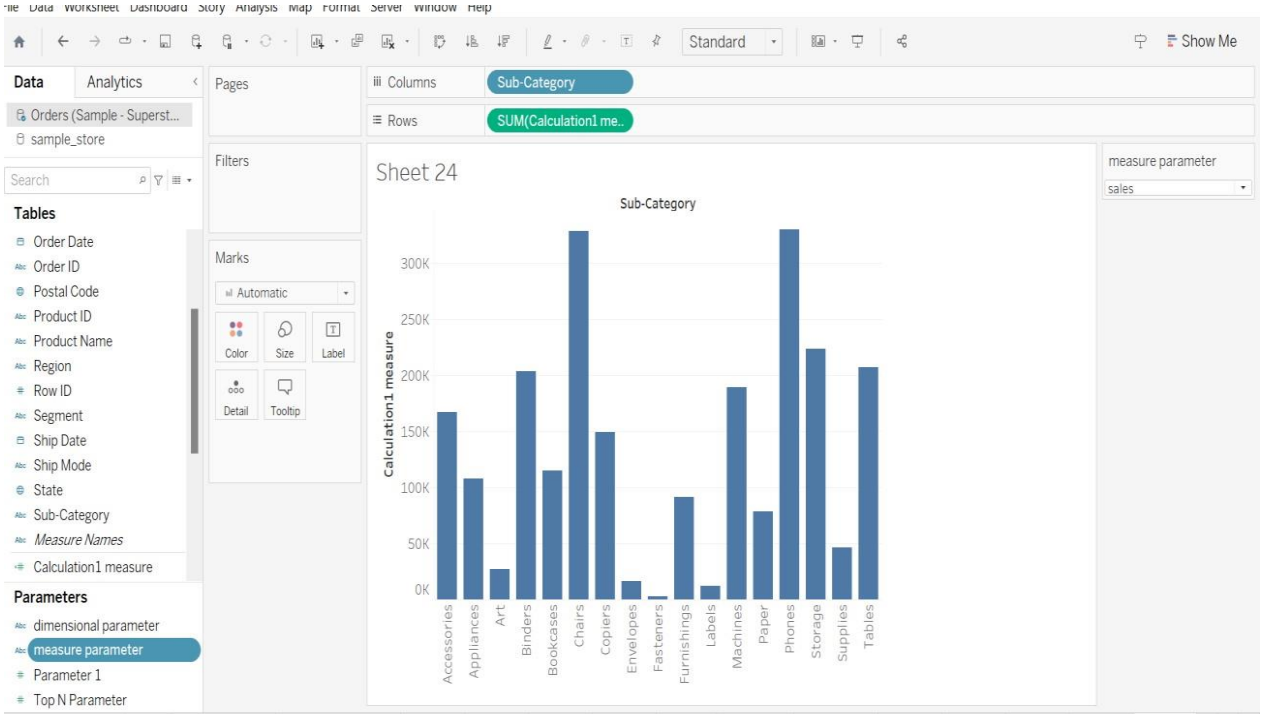


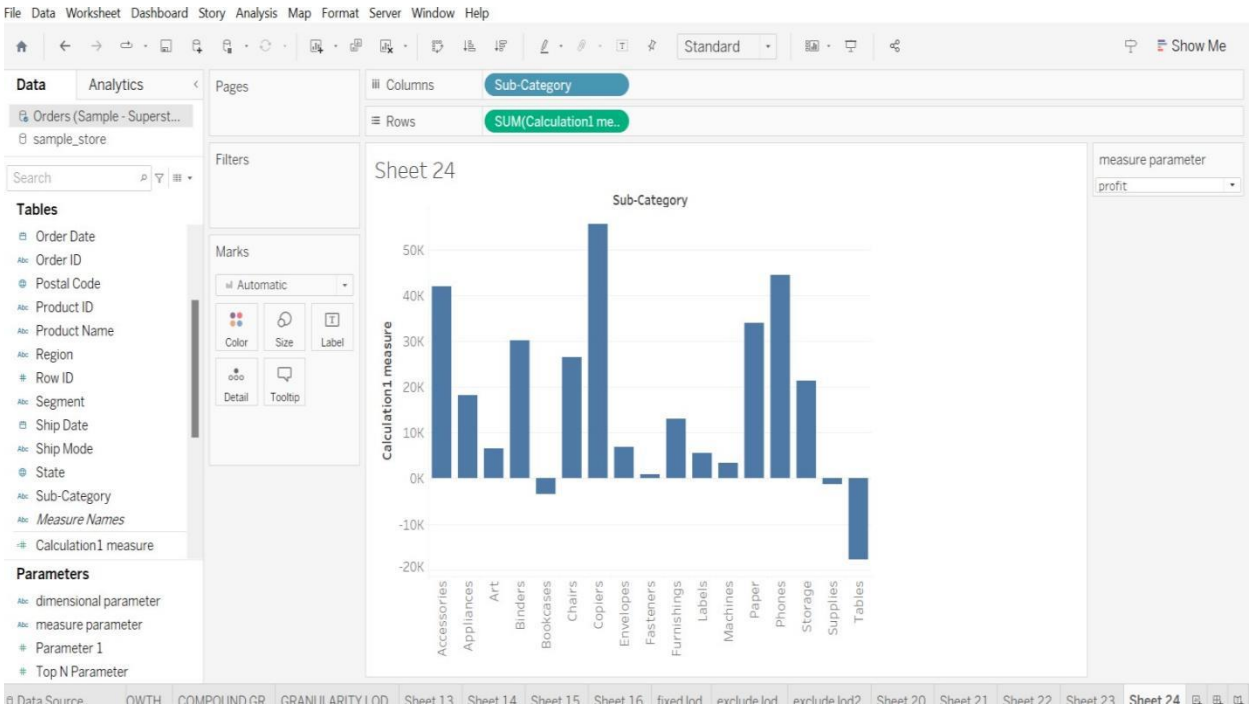


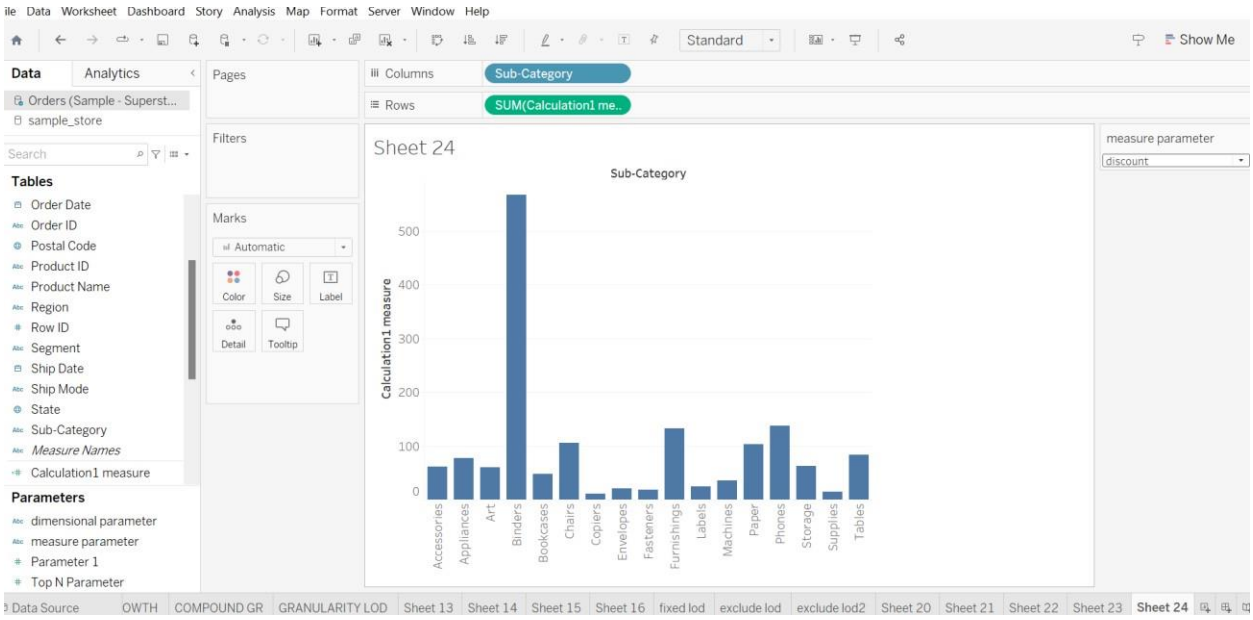




**calculated field formula:** IF [dimension parameter]=”category” THEN[category]ELSEIF[dimensionparameter]=”subcategory”THEN[subcategory]ELSEIF[dimensionparameter]=”segment” THEN[segment]END

## MEASUREPARAMETERS:






**Calculated field:** IF [measure parameter]=”sales” THEN[sales] ELSEIF[measureparameter]=”profit” THEN [profit] ELSEIF[measure parameter]=”discount”THEN[discount]END