

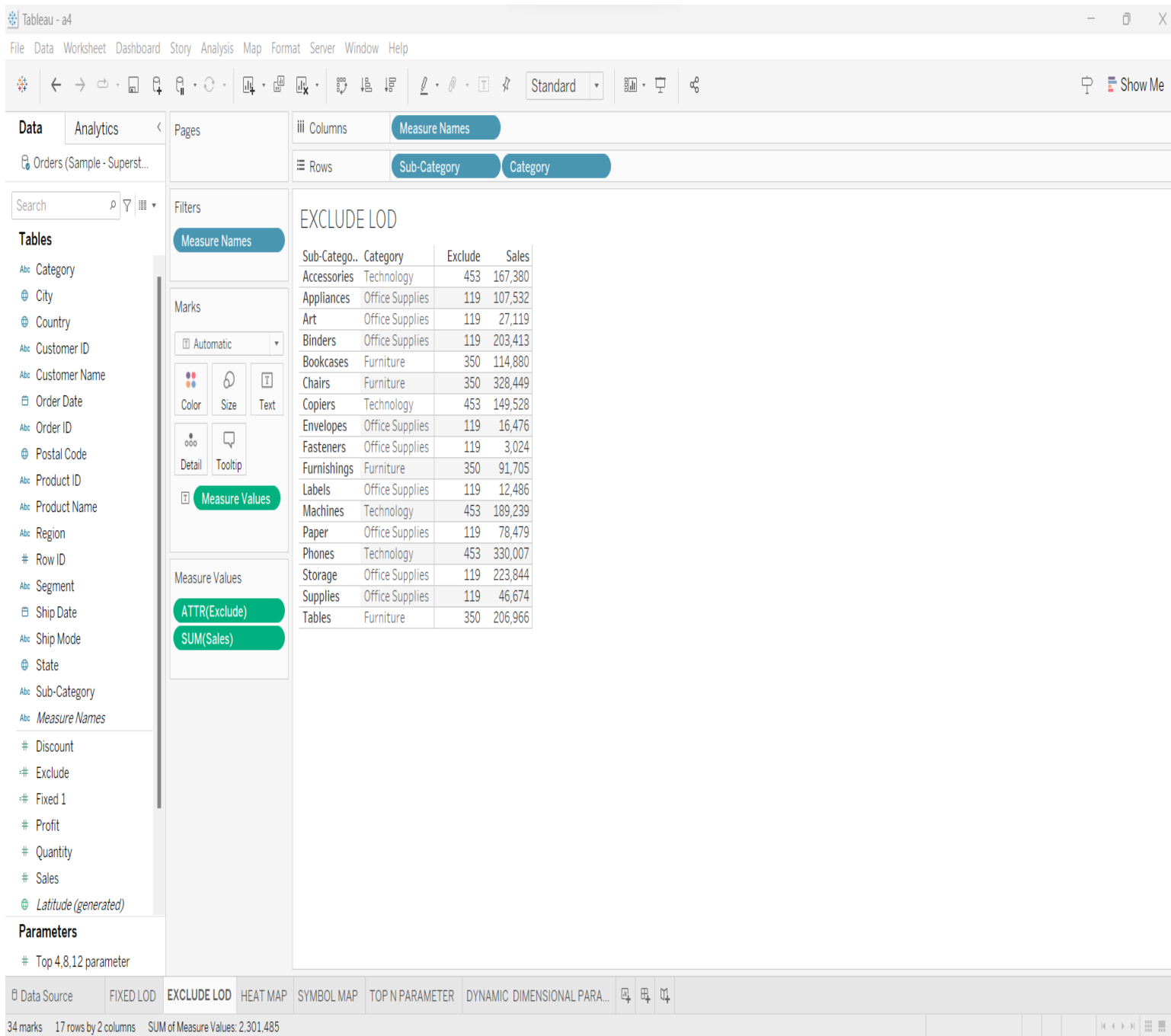
## TASK-1:

### FIXED LOD EXPRESSION:

1.This visualization represents abouts fixed lod expressions.

2.The expression we used in this visualization is{Fixed[Region]:SUM([Sales])}.

3.In this visualization we can see the fixed values of region and category in a fixed way.

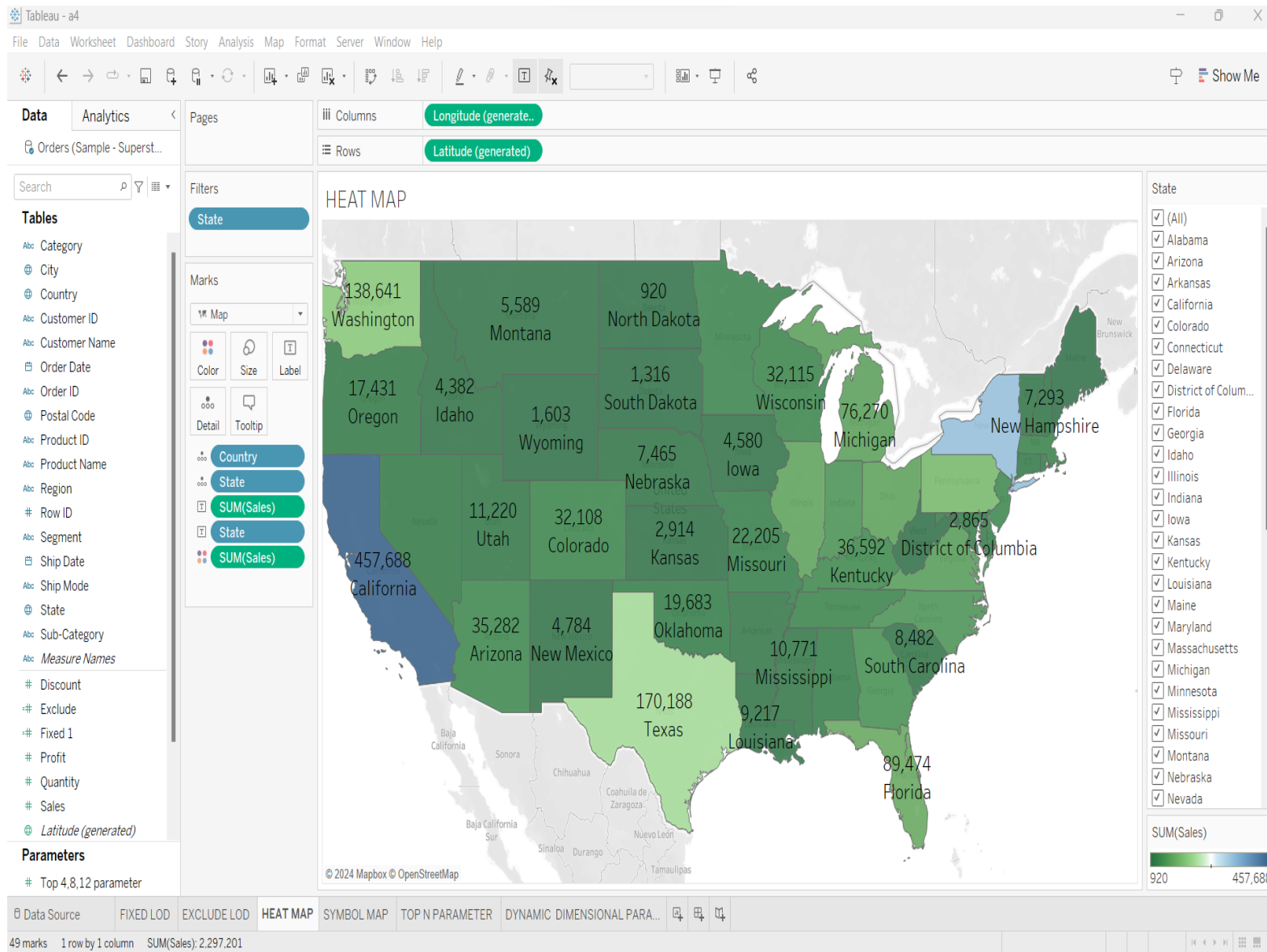


## EXCLUDE LOD EXPRESSION:

1.This visualization represents abouts exclude lod expressions.

2.The expression I used in this visualization is  
`{EXCLUDE[Sub-Category]:AVG([Sales])}`

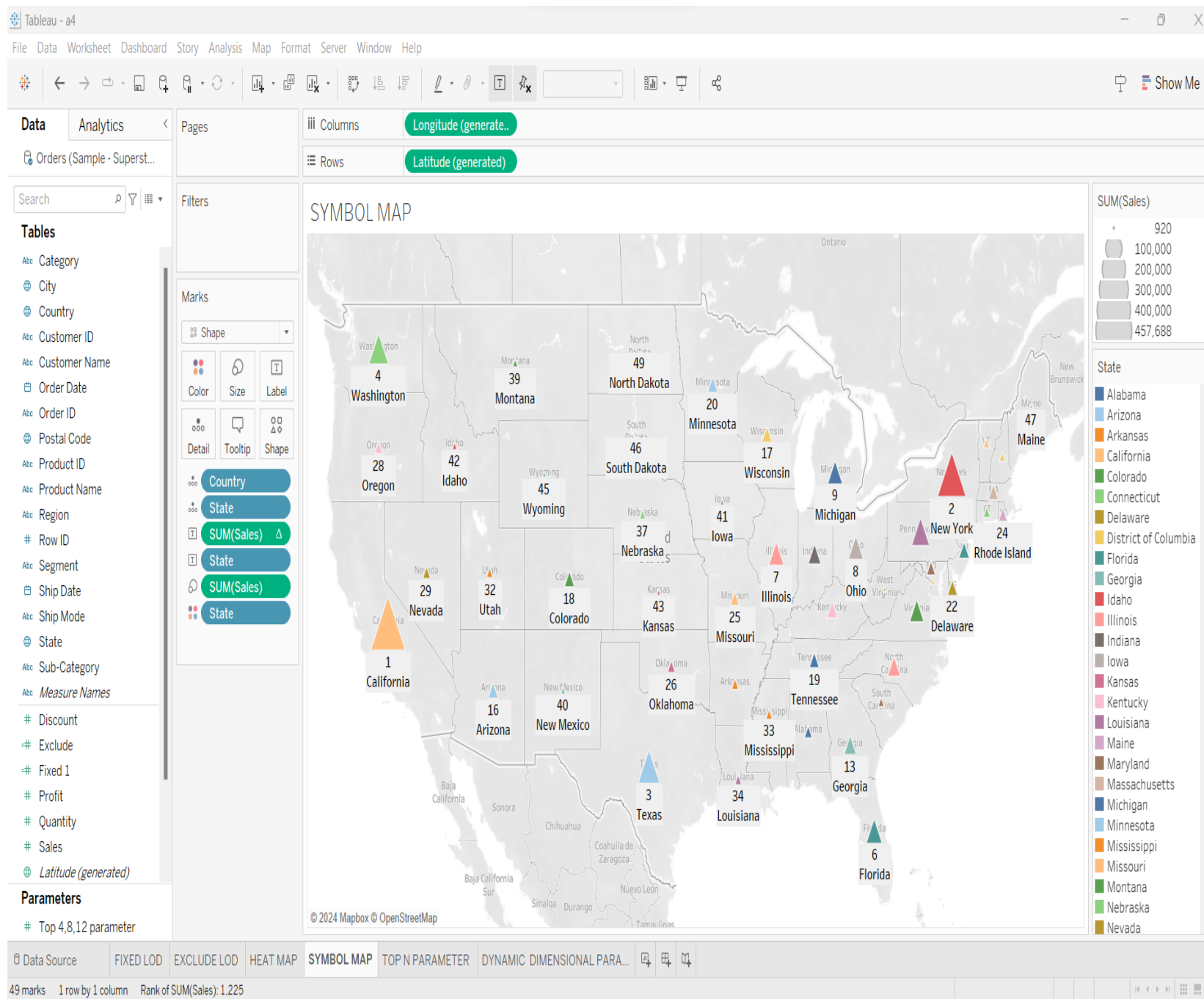
3.As a result the visualization we can see the total sales excluding sub category and category.



## TASK-2:

### HEAT MAP:

- 1.This visualization represents about heat map.
- 2.In this visualization we can see states of United states by sales.
- 3.Here California has highest sales with 457,688.



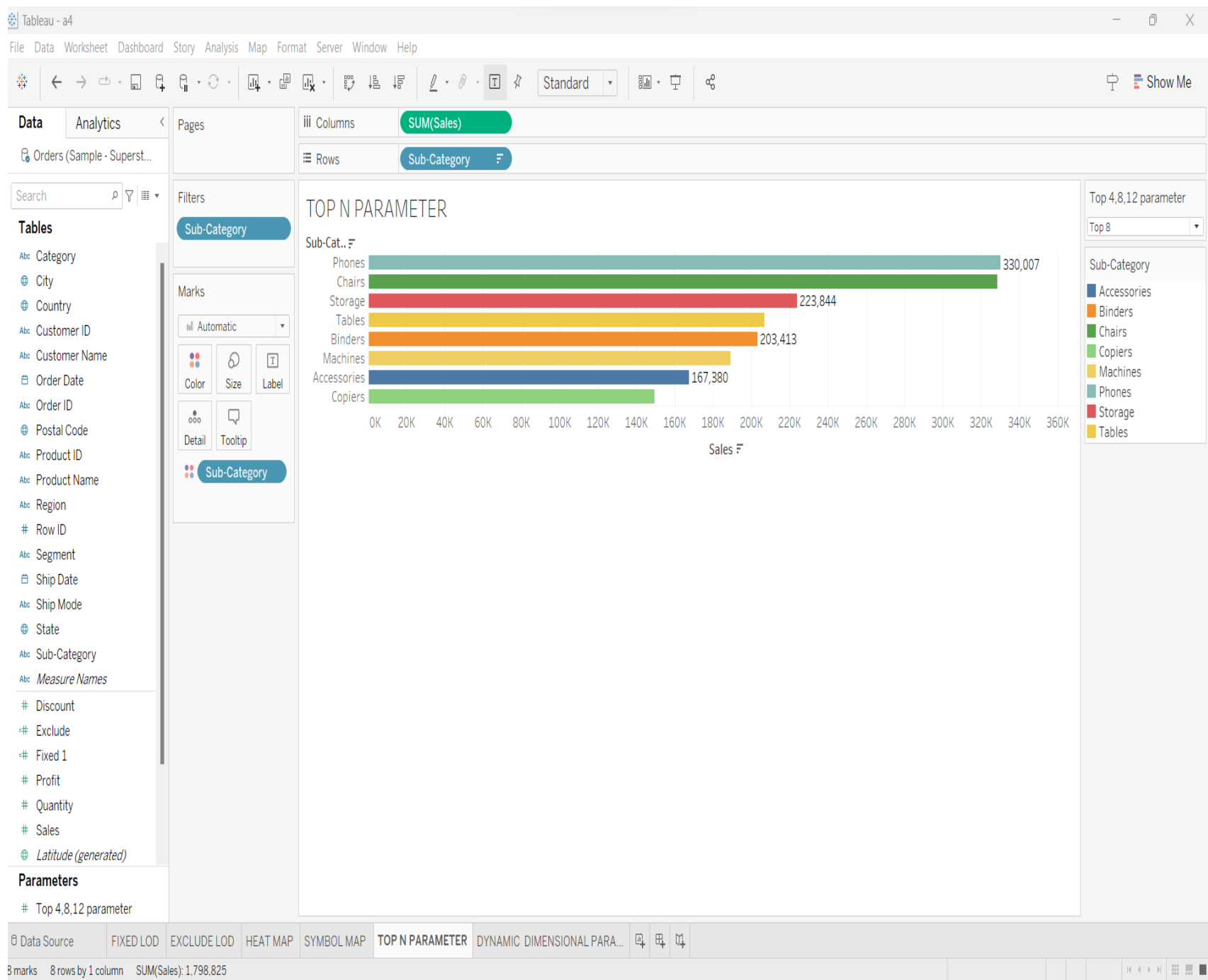
## SYMBOL MAP:

1.This visualization represents about symbol map.

2.In this visualization we can see the ranks of states of United states by sales and coloured triangle indicates about sales

3.Here California been at first rank in sales in United states.





. TASK-3

### TOP N PARAMETER:

- 1.This visualization represents about the top n parameter.
- 2.This Top n parameter contains top 4,8,12.
- 3.As a result we can see bar chart with top 8 sub category by sales.

