

Module 8: Advance Charts in Tableau

Demo Document II

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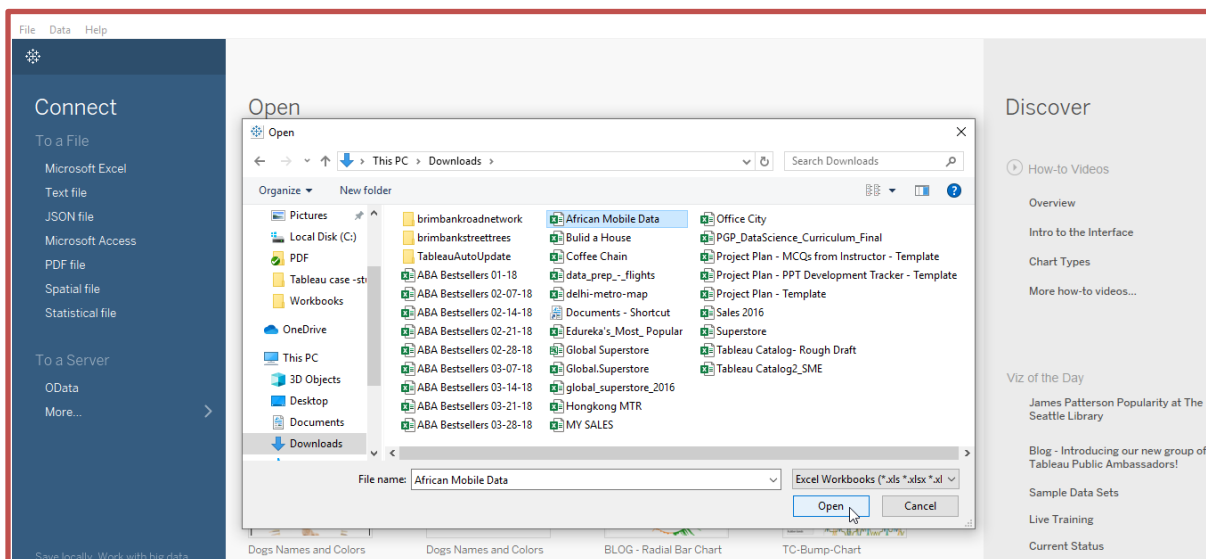
Demo II

Using “African mobile data.xlsx” dataset, find out the outliers of profit by adding upper and lower control limits, also use an average line in the view.

Demo II Solution

Make use of control chart in order to find out the difference between performance and target hence find out the outliers by applying upper and lower bounds.

Step 1: Click on “Excel file” → Select “African mobile data” → Open



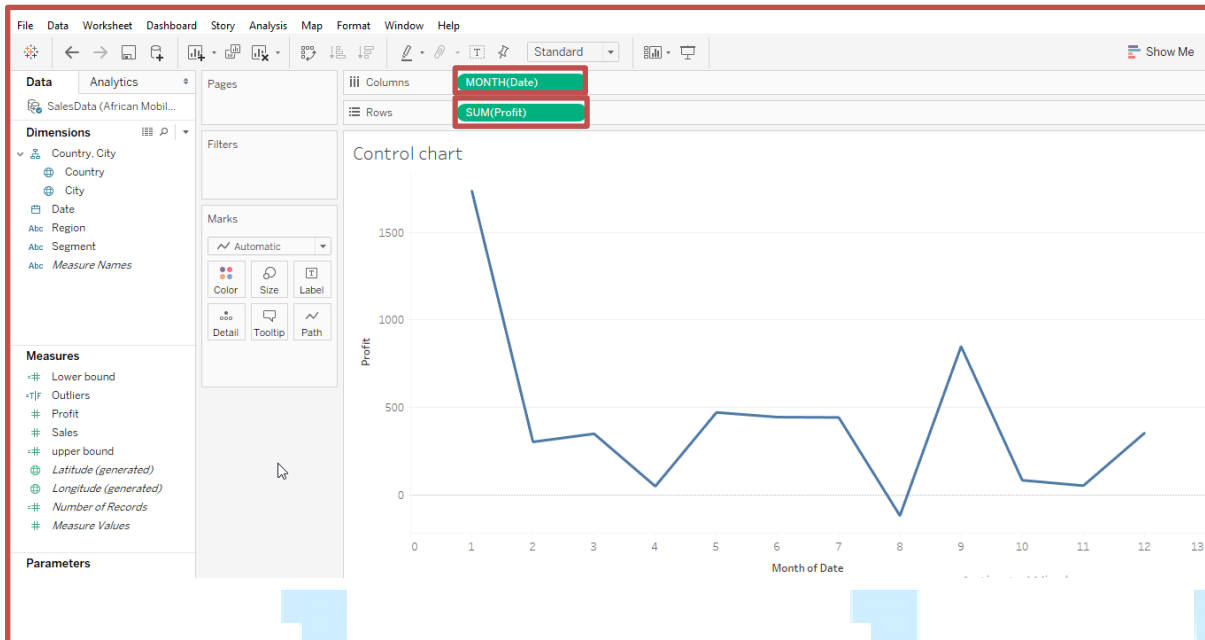
Step 2: Drag and drop the sheets that is “African mobile data” sheet on flow pane, add sales data. Click on sheet.

SalesData Date	SalesData Country	SalesData City	SalesData Region	SalesData Segment	SalesData Sales	SalesData Profit	Calculation upper bound	Calculation Lower bound	Calculation Outliers
01-01-2013	Cote d'Ivoire	Abidjan	Western	Commercial	656.960	6.570	Undefined	Undefined	Undefined
01-01-2013	Madagascar	Antananarivo	Eastern	Public	875.940	-70.080	Undefined	Undefined	Undefined
01-01-2013	Rwanda	Kigali	Eastern	Public	258.350	18.080	Undefined	Undefined	Undefined
01-01-2013	Zimbabwe	Harare	Eastern	Residential	875.620	-35.020	Undefined	Undefined	Undefined
02-01-2013	Ethiopia	Addis Ababa	Eastern	Residential	509.930	10.200	Undefined	Undefined	Undefined
03-01-2013	Chad	N'Djamena	Middle	Commercial	443.130	4.430	Undefined	Undefined	Undefined
03-01-2013	Malawi	Blantyre	Eastern	Residential	651.780	19.550	Undefined	Undefined	Undefined

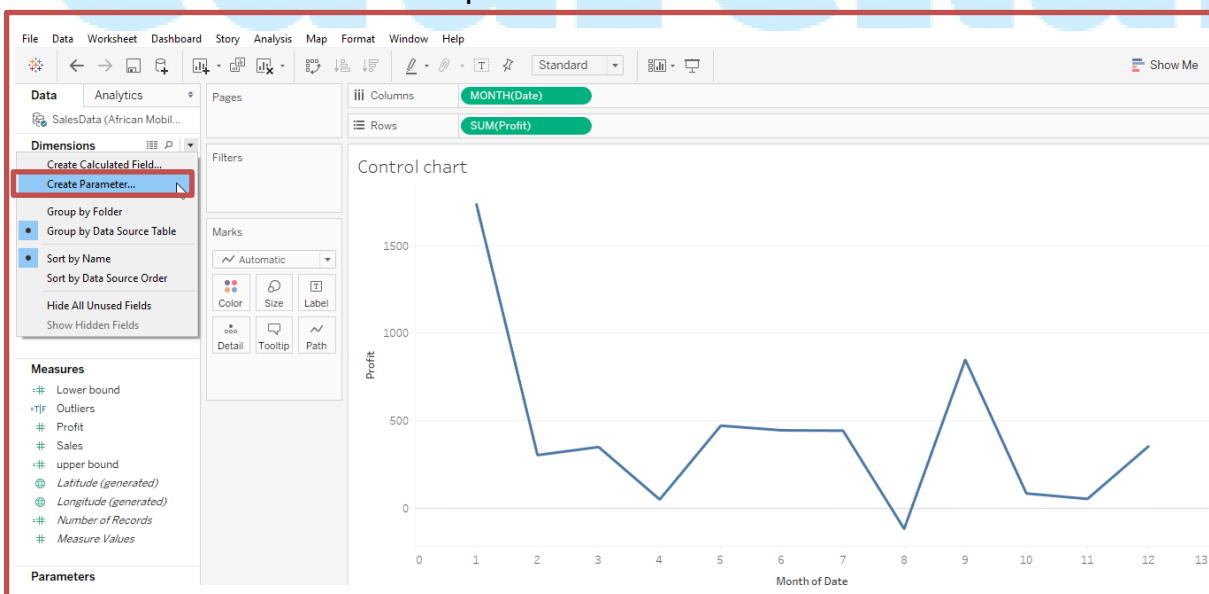
Go to sheet and rename the sheet to “Control chart”

Step 3: Drag and drop the required fields from dimensions and measures to column and row shelf.

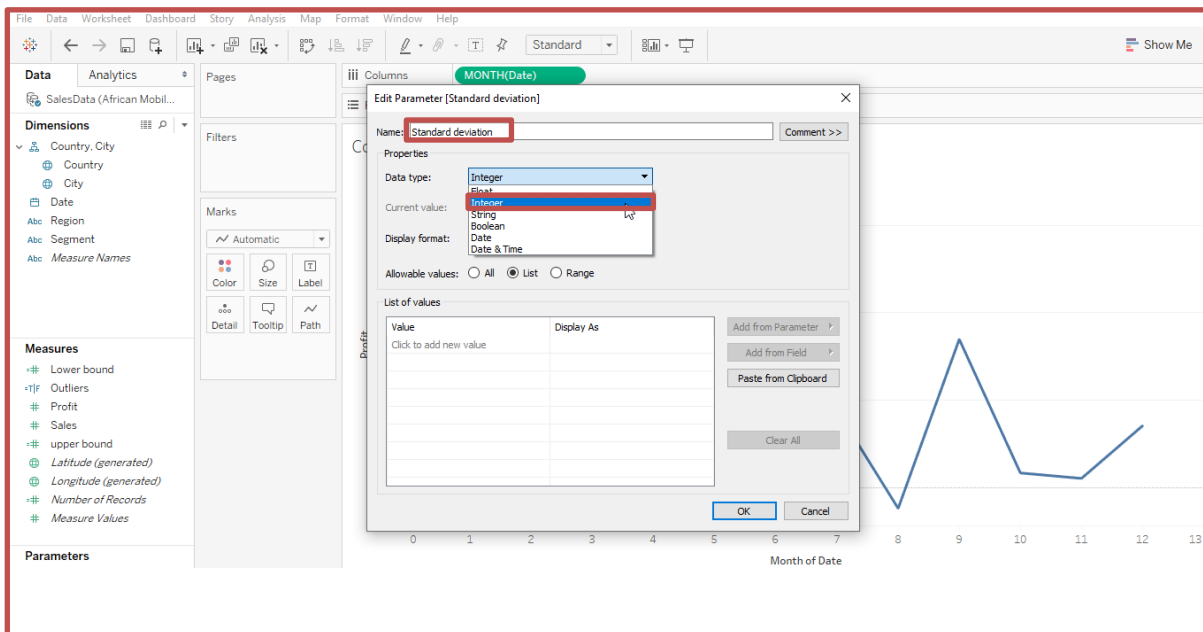
- Month (Date) to columns (change the field to continuous)
- Profit to rows



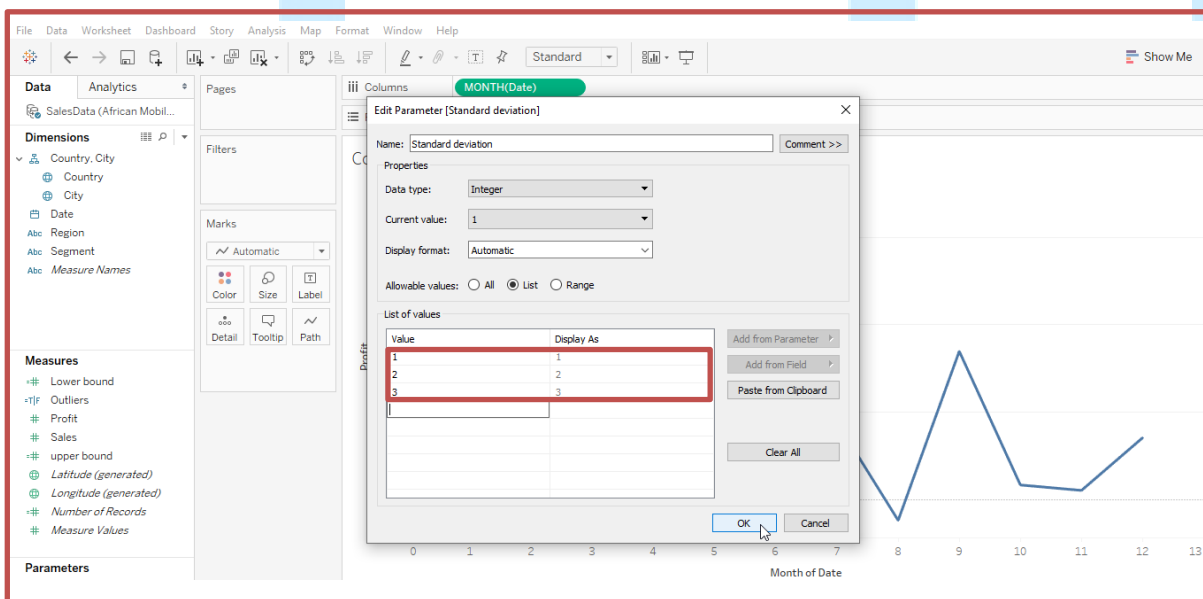
Step 4: To create a Parameter, click on the drop down on top right next to dimensions and select create parameter.



Step 5: Name the parameter as standard deviation and change the datatype to integer.

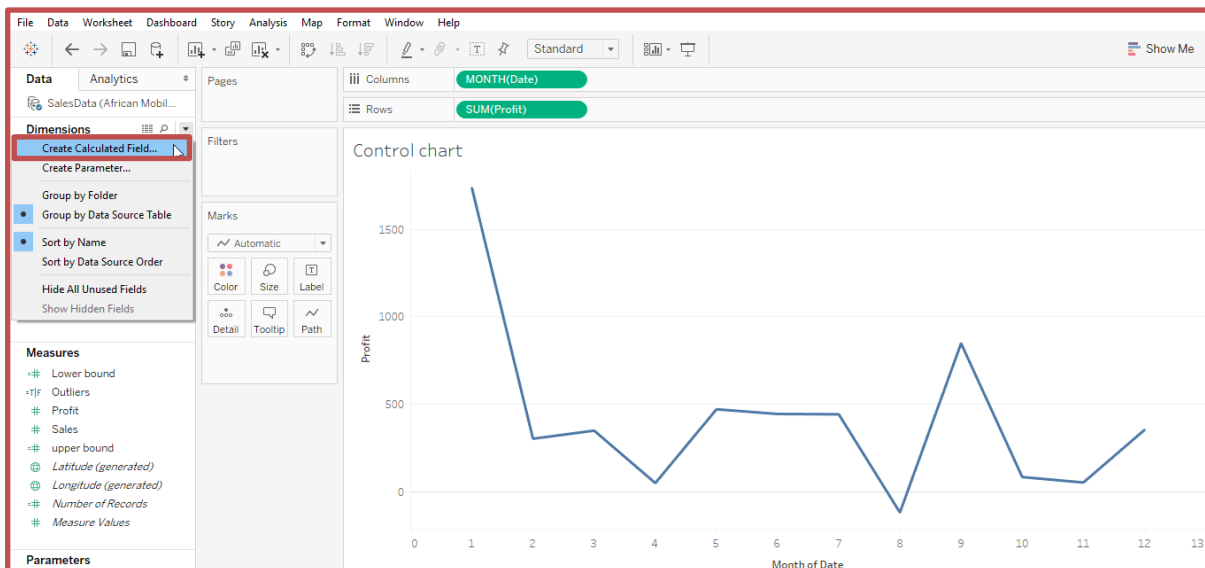


Step 6: Change allowable values to list and add 1, 2, 3 to list then click ok.

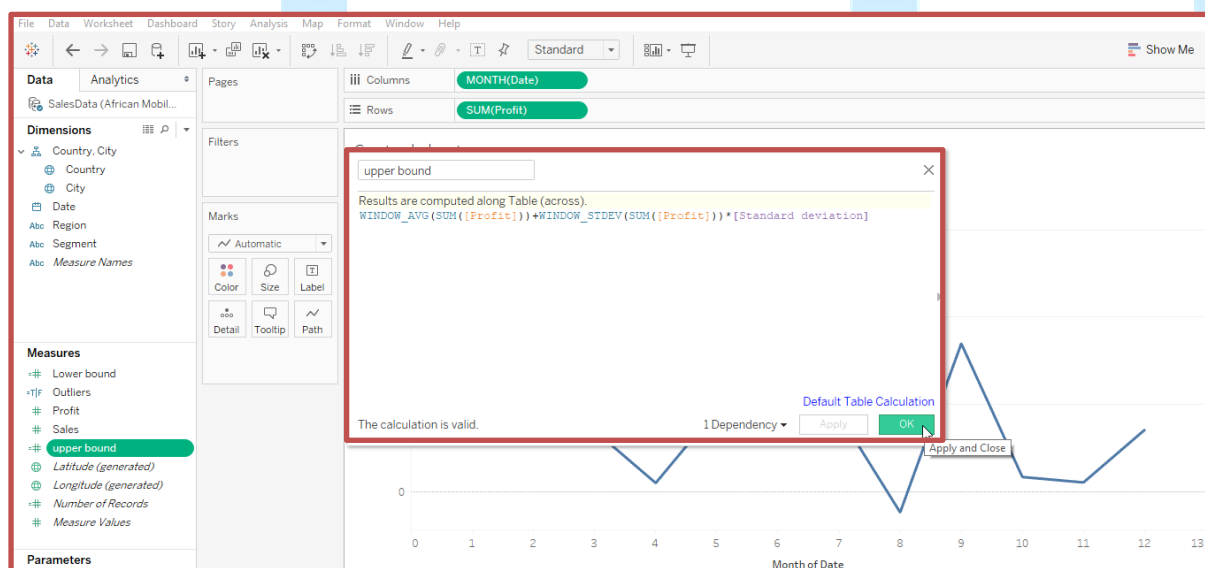


To find out the actual performance we must create some calculated field :

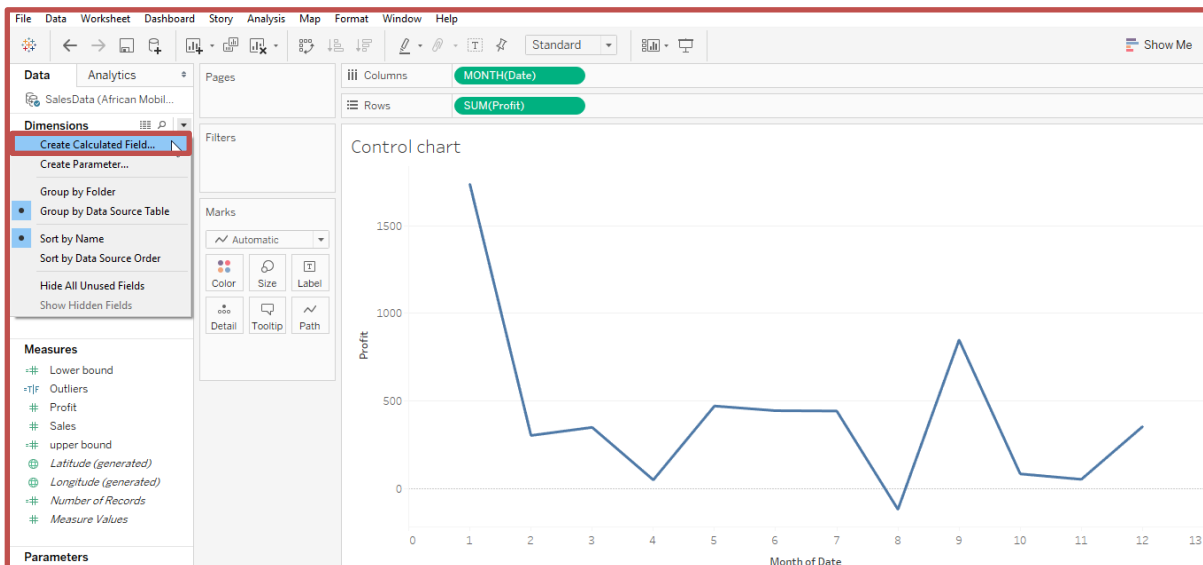
Step 8: To create the calculated field, click on drop down on top right next to dimensions and select Create Calculated Field.



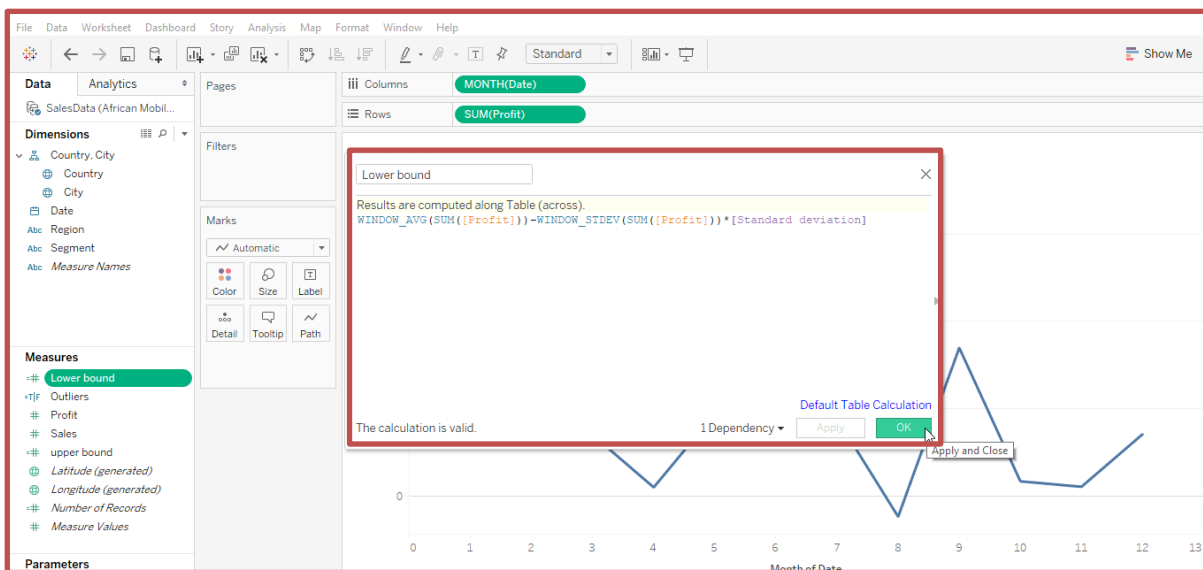
Name the field as upper bound. Add the following calculation and click ok.



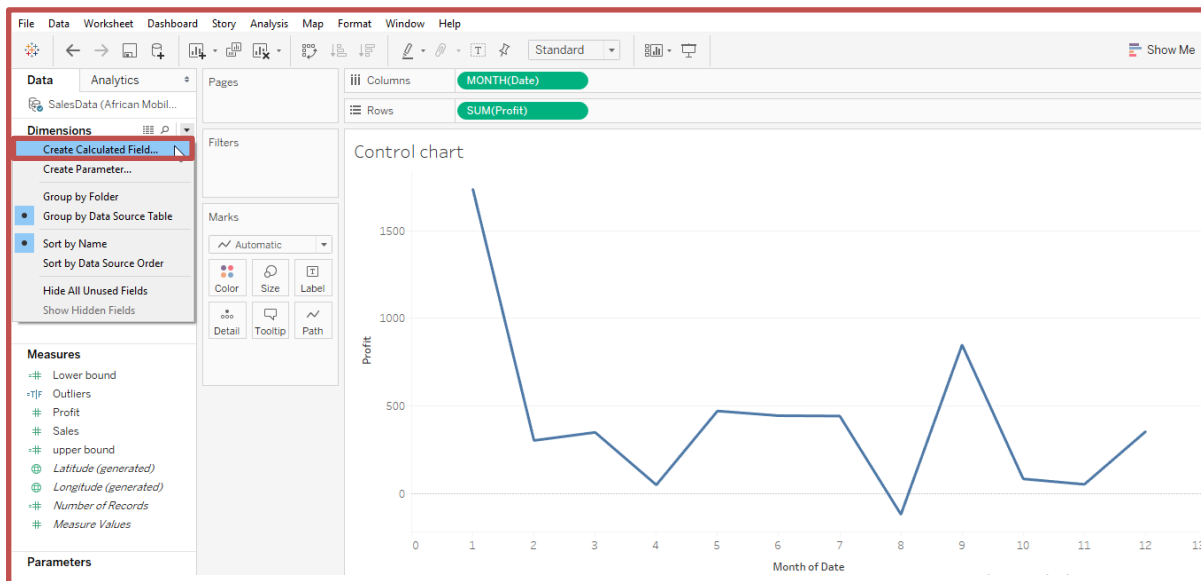
Step 9: To create the calculated field, click on drop down on top right next to dimensions and select Create Calculated Field.



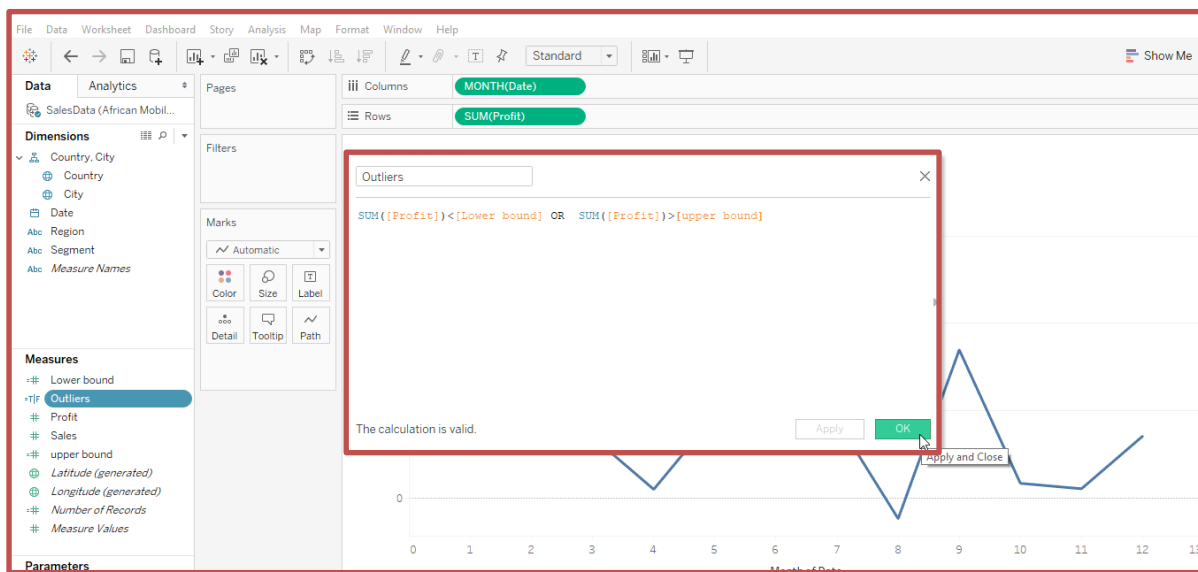
Name the field as lower bound. Add the following calculation and click ok.



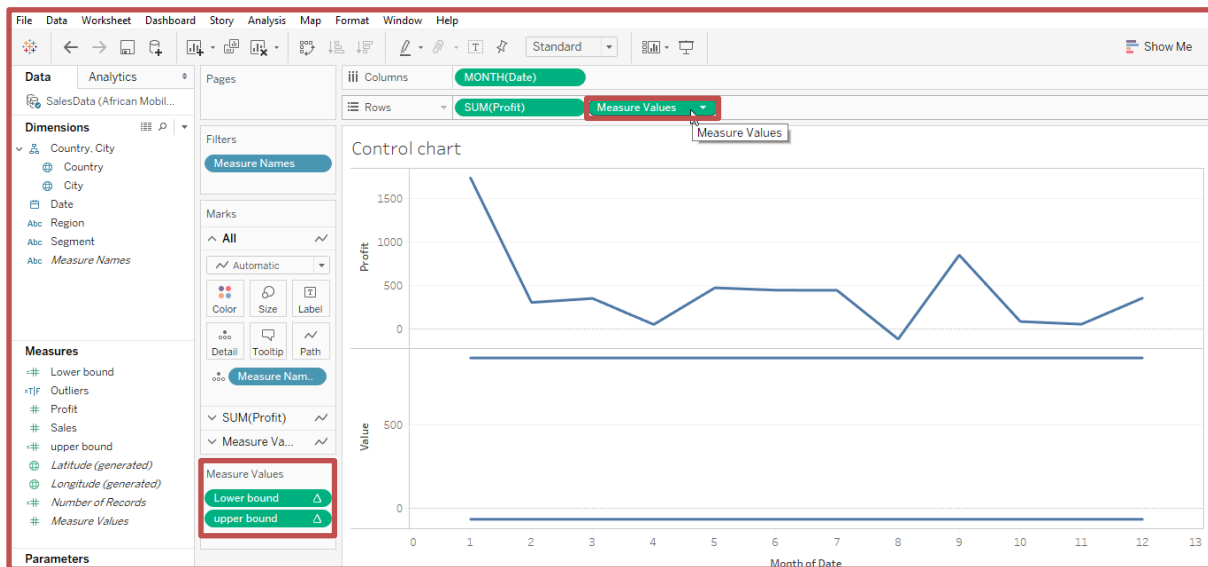
Step 10: To create the calculated field, click on drop down on top right next to dimensions and select Create Calculated Field.



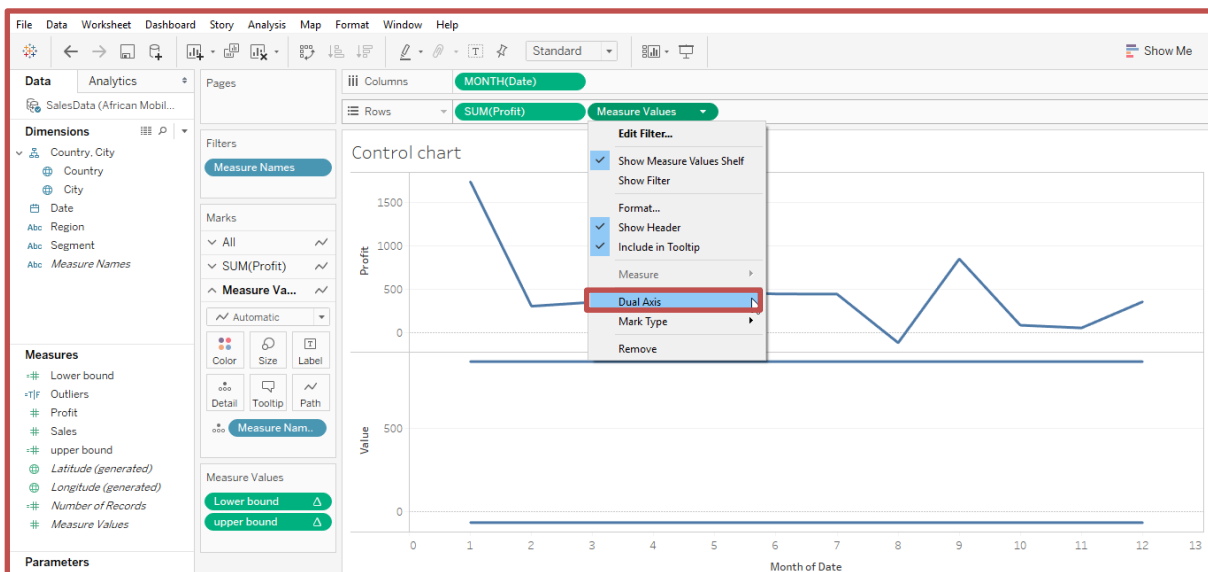
Name the field as lower bound. Add the following calculation and click ok.



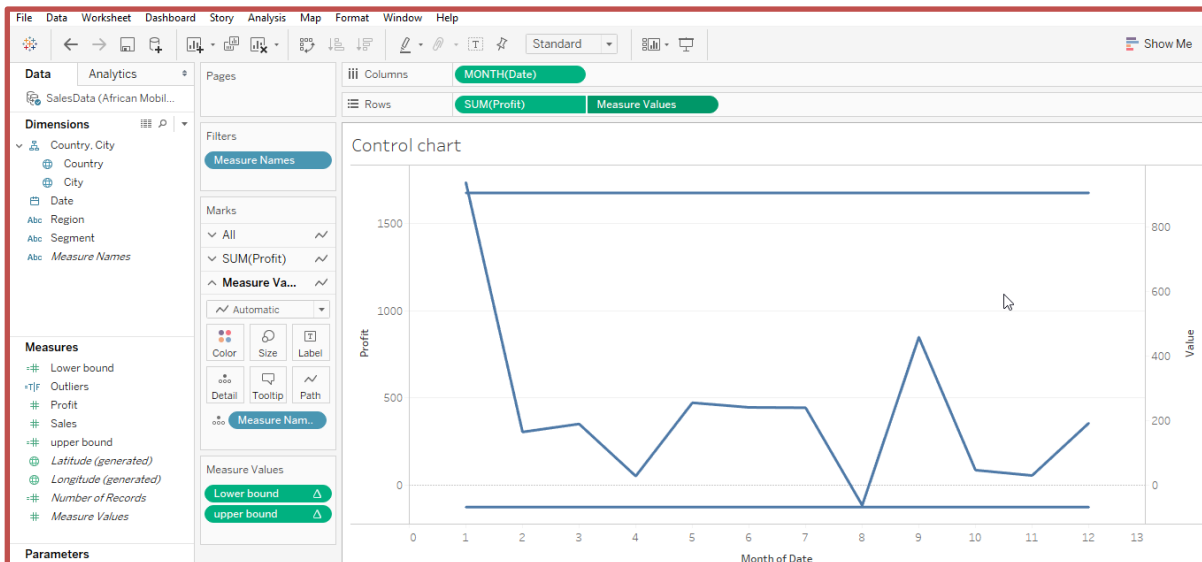
Step 11: Now, add measure values to rows. Keep only upper bound and lower bound as shown.



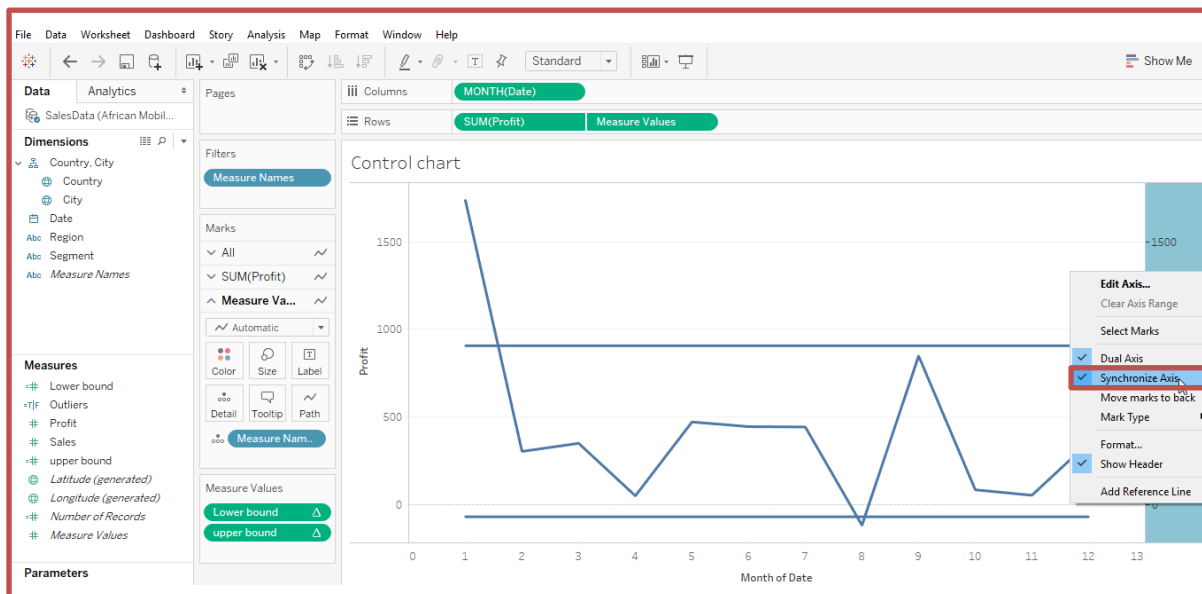
Step 12: Click on measure values and select dual axis.



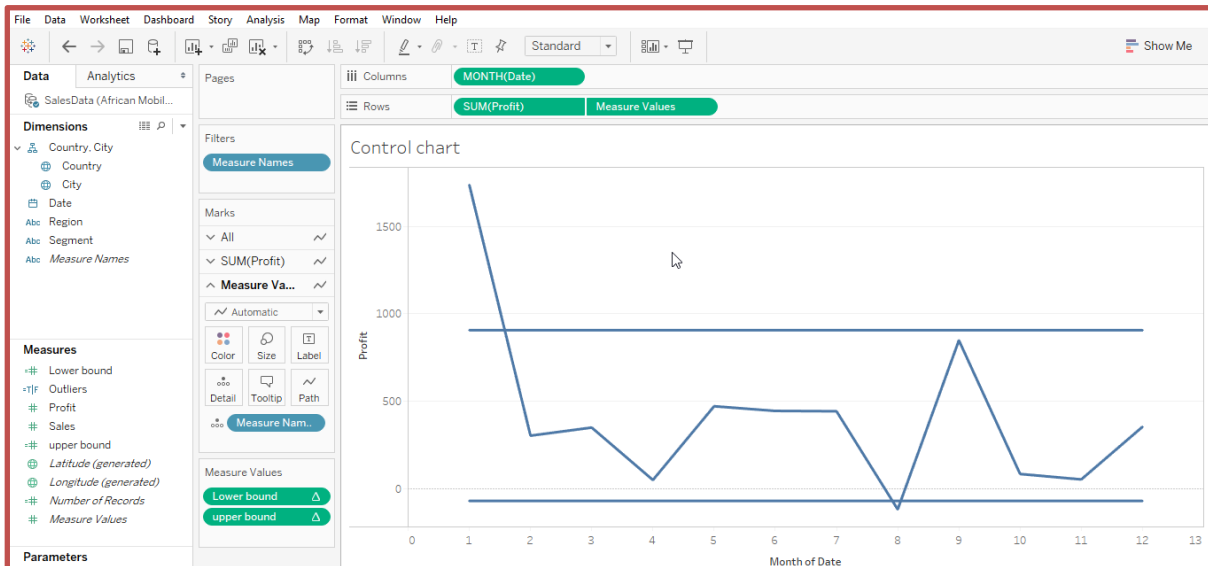
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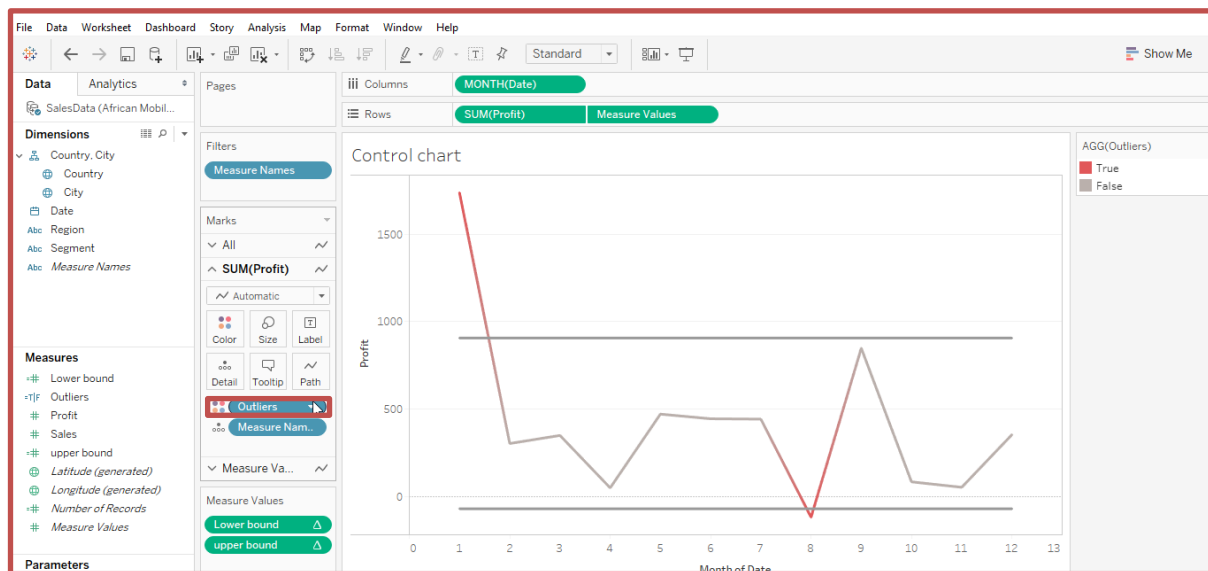
Step 13: Synchronize the axis by right clicking on value and selecting synchronize axis option.



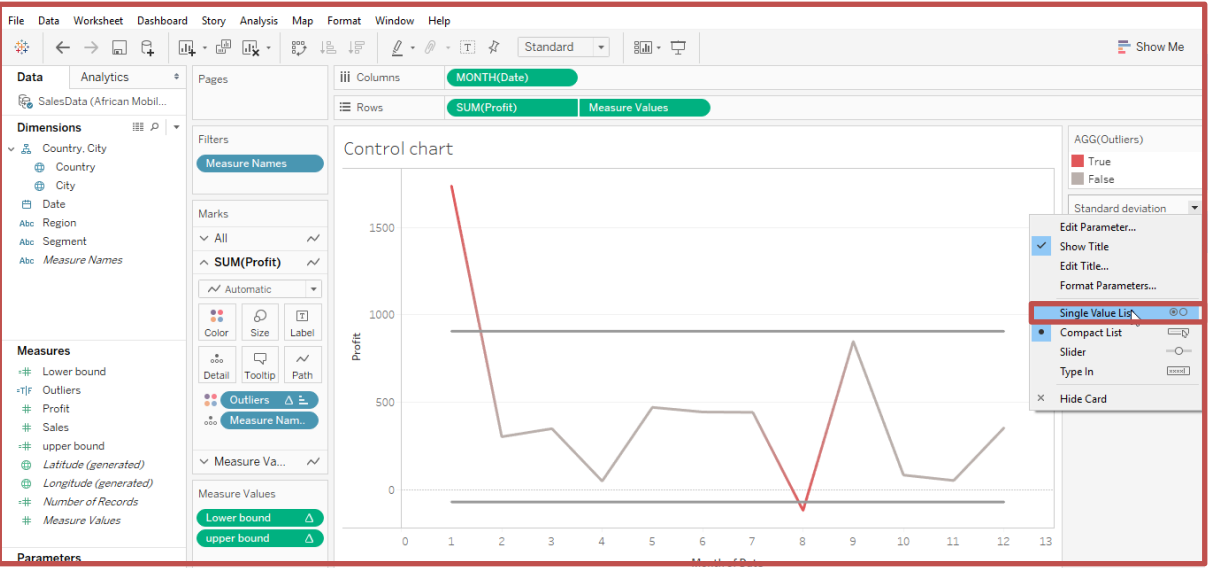
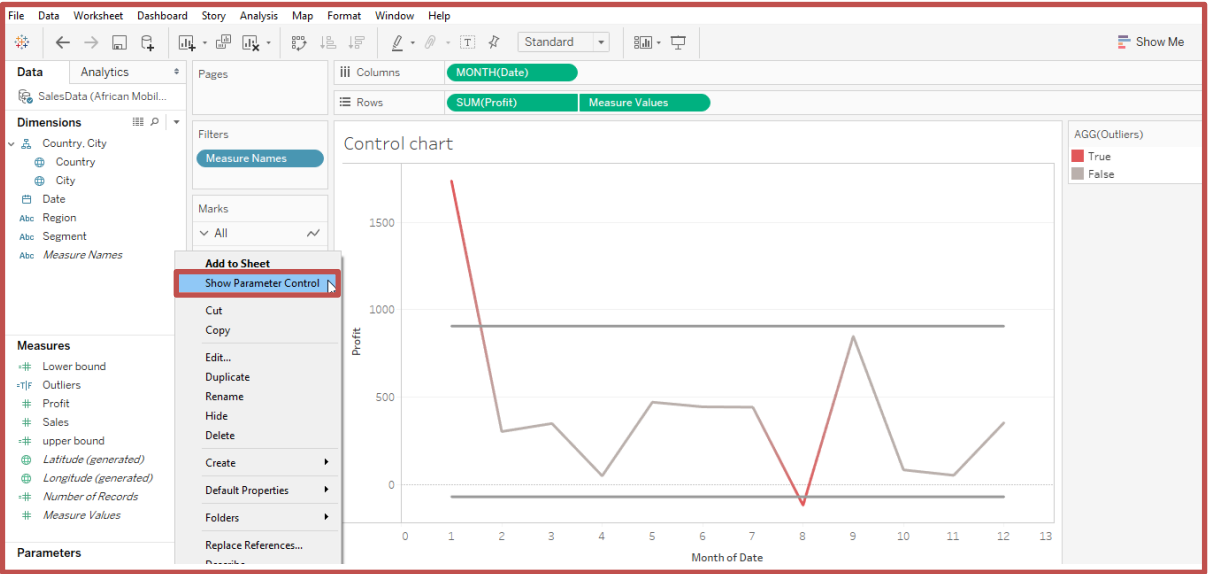
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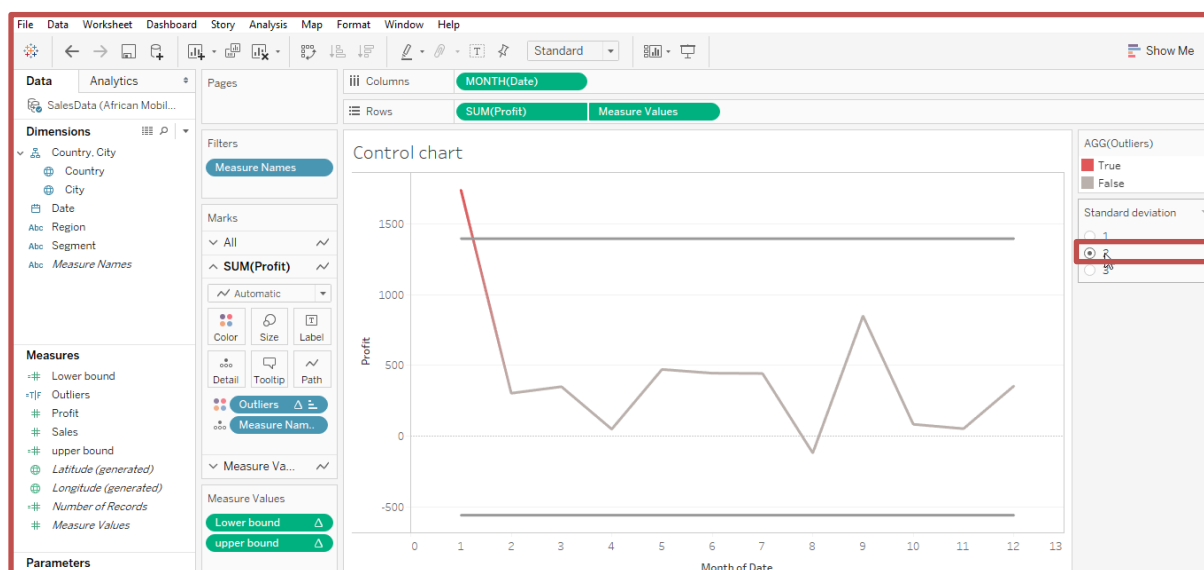
Step 14: Add outliers to color.



Step 15: Click on parameter to show control and change the legend to single value list.



You have the required visualization.



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