



DATA VISUALIZATION: Build Data Dashboards

VISUALIZATION

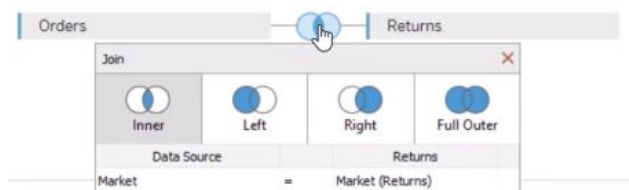
- Any information displayed through charts, graphs, and more interactive visualizations helps the Human brain process the complex data in a quick and easy manner. Here is an [example](#).

CONNECTING DATA

- Open Tableau > Connect Pane (Left-hand side) > Choose the file type
- You can change table names, variables names, variable type by clicking on the dropdown on the variables on the data source page

COMBINING DATA

- You can perform joins on the data source page by a simple drag and drop to get a master data set using small datasets.



DATA TYPES

Qualitative

- Continuous - Data can be split into smaller and smaller units, and still a smaller unit exists.
- Discrete - data that has countable values only.

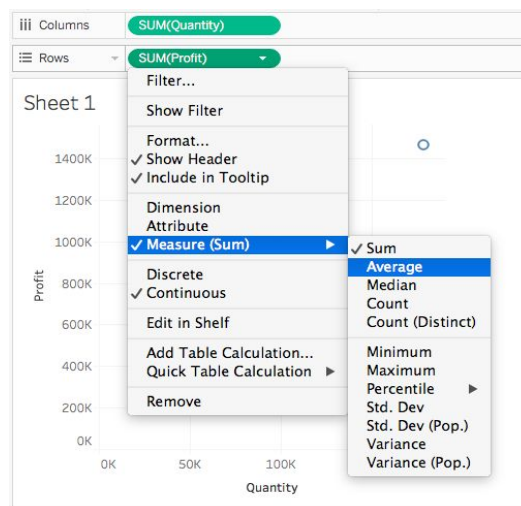
Categorical

- Ordinal - Data is in Ranked Order
- Nominal - Data is not Ranked

PLOTS

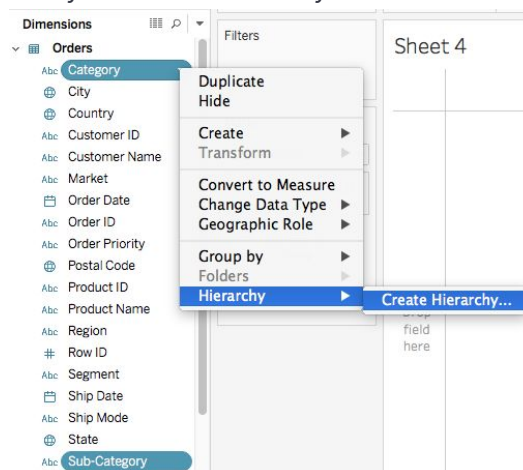
- Univariate** - One Variable plot (Eg: Histogram, Bar, Box plots)
- Bivariate** - Two variable plots (Eg: Scatter Plot)
- Here is a [link](#) to help you understand which plot to use.

AGGREGATIONS



HIERARCHIES

- Hierarchies in Tableau gives you the ability to drill down into your data
- You can make manual Hierarchies by selecting the values > opening the menu and selecting Hierarchy > Create Hierarchy

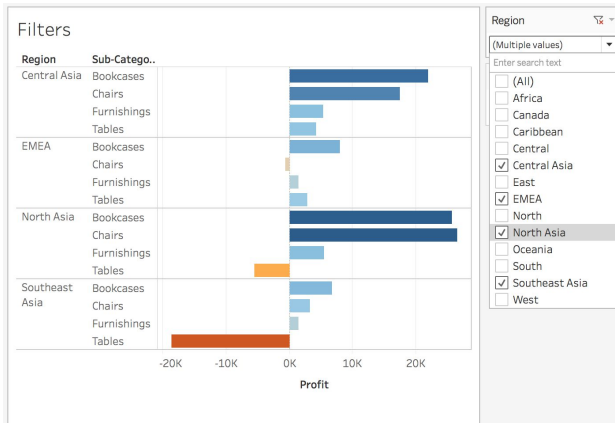




FILTERS

Filters are used to view only the data you're interested in and allow your users to do the same.

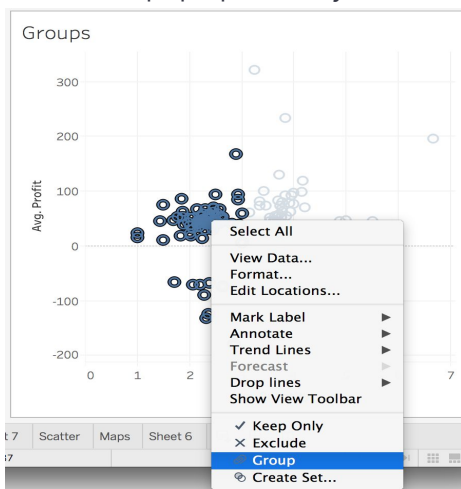
- You can simply drag a variable to filter pane to create a filter and right-click on it to show or edit the filter.



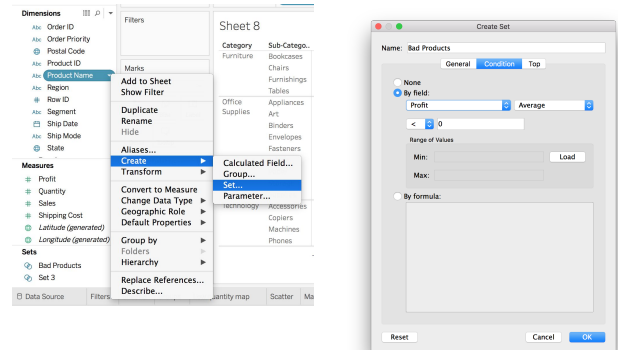
GROUPS AND SETS

Groups - Helps you group data points together which can help illuminate your message.

- To create a group select the data points with low average quantity, hold down the mouse and drag a box around the data you want. Then you can either hover over a point and a small menu will pop up, or right-click on a data point and a large menu will pop up where you can select **Group**.

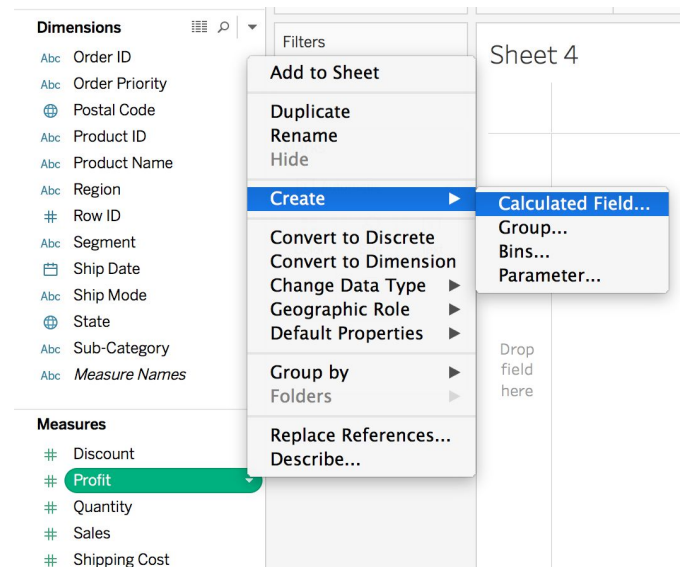


Sets - Sets are similar to groups in that you can select data points and create a set from them. However, sets can be dynamic where the members of the set will change as the underlying data changes. Groups, on the other hand, are static, the members will always be the members.



CALCULATED FIELDS

Calculated fields let you use custom formulas to create new fields with to use in your visualizations



REFERENCES

- Tableau Tutorial [Videos](#)