



Mu Sigma

**TLH**

***Exploring Tableau functionalities***

**Do The Math**

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**22 February 2019**

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# Agenda

- ▶ Understanding Tableau features – Filters, Parameters, Sets, Groups, Hierarchies, Bins, Header and Caption
- ▶ Filters : Normal filter, Quick filter, Action filter and Hierarchical filters
- ▶ Exploring Marks card
- ▶ Charts/graphs supported by Tableau
- ▶ Formatting charts
- ▶ Creating and Using calculated fields
- ▶ Data blending vs Joining

# Features

- ▶ **Filters** - A dimension or measure that narrows down the data
- ▶ **Parameter** –Allows to pass values into Tableau and to control visualizations
- ▶ **Set** – A subset of your data that meets certain conditions based on existing dimensions
- ▶ **Group** - Simplifies large numbers of dimension members by combining them into higher-level categories
- ▶ **Hierarchy** - Hierarchies between the related variables help us to drill down and analyze the data easily
- ▶ **Bin** – Creating bins helps us to understand the distribution of data
- *Bins can only be created for Measures whereas Sets can only be created for Dimensions*



# Filters

- ▶ Normal Filters
- ▶ Quick filters
- ▶ Action filters
- ▶ Dependent/Hierarchical filters

## Marks card

- ▶ Color
- ▶ Size
- ▶ Text
- ▶ Detail
- ▶ Tool tip

## Charts supported by Tableau

- ▶ Tableau supports almost 24 different types of charts like

Bar chart	Funnel chart
Pie chart	Gantt chart
Stacked Bar Chart	Bullet chart
Area chart	Word Cloud
Scatterplot	Tree Map
Trend line chart	waterfall chart
Geo map chart	Heat map
Bubble chart	Side-by-side chart
Text table	Combo chart

# Data blending vs Joining

## ▶ Data blending

- We go for blending when we need to join the data flowing in from different sources
- All rows from the primary data source and aggregated rows from the secondary data source are shown when data is blended
- Blending should be the last resort

## ▶ Data Joining

- Joins between the data tables in Tableau can be achieved when the data is flowing from a single source (Tableau)
- The rows that are shown are dependent on the type of join between the data tables