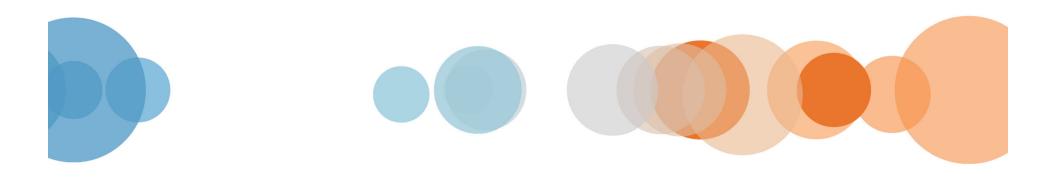
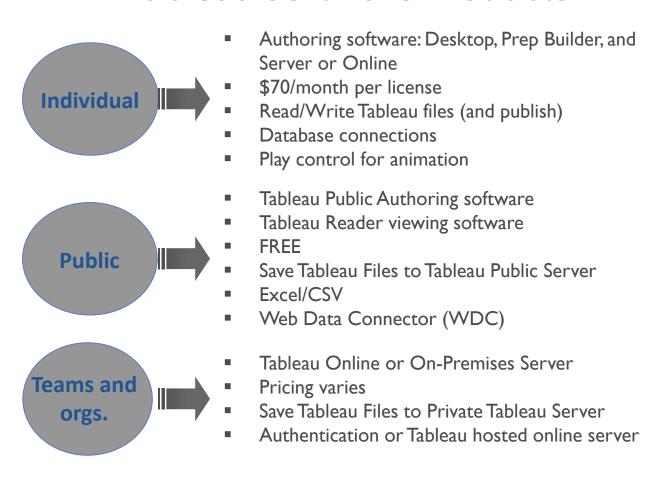
### An Introduction to Tableau



#### **Tableau Software Products**



### **Tableau File Types**

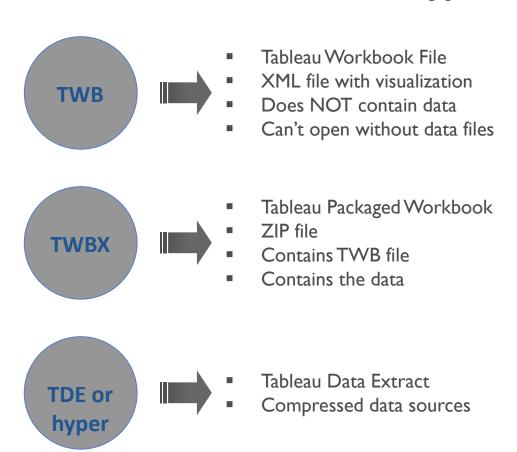
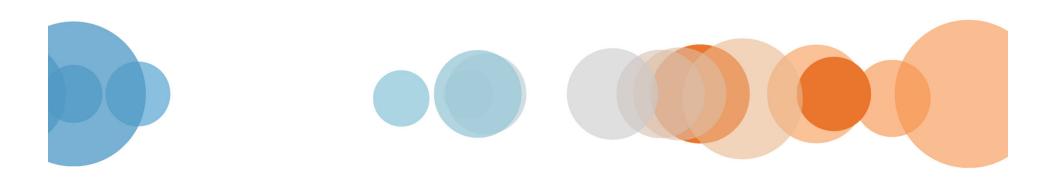




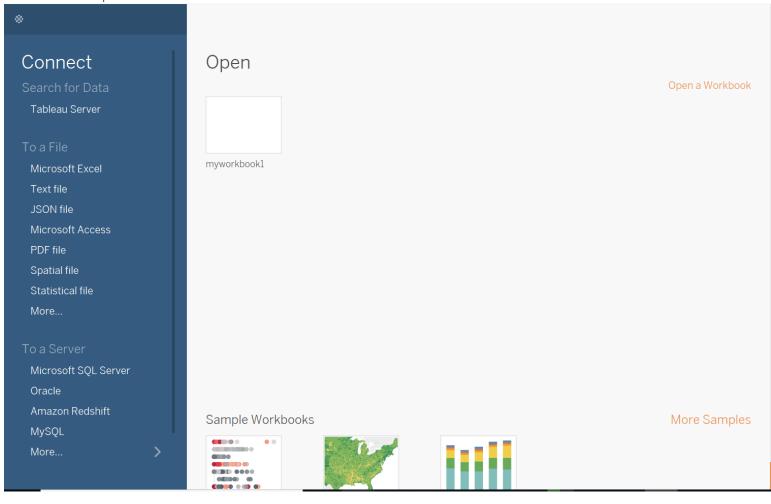
Tableau Desktop: Start your free 14-day trial <a href="https://www.tableau.com/products/desktop/download">https://www.tableau.com/products/desktop/download</a>

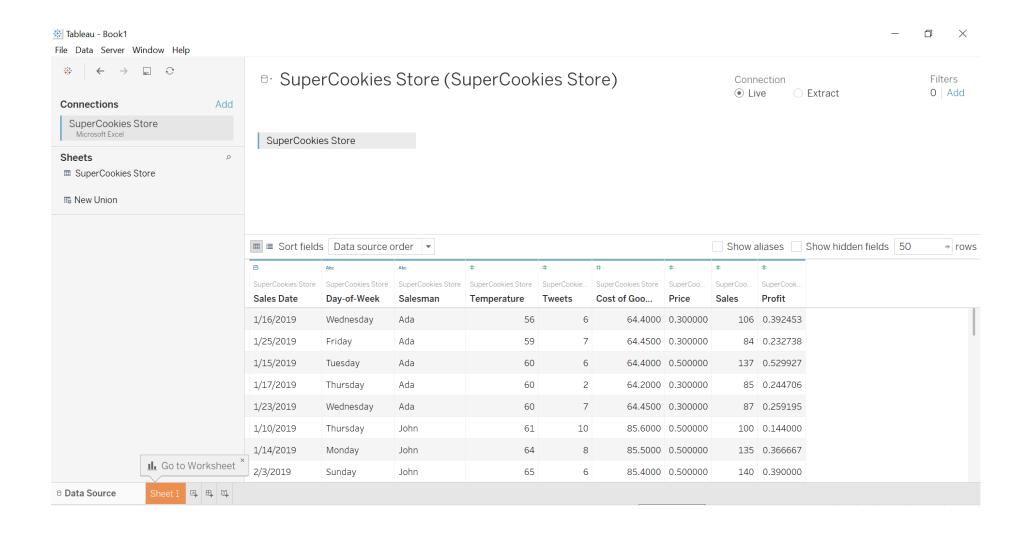
### **Tableau Exploratory of Data**

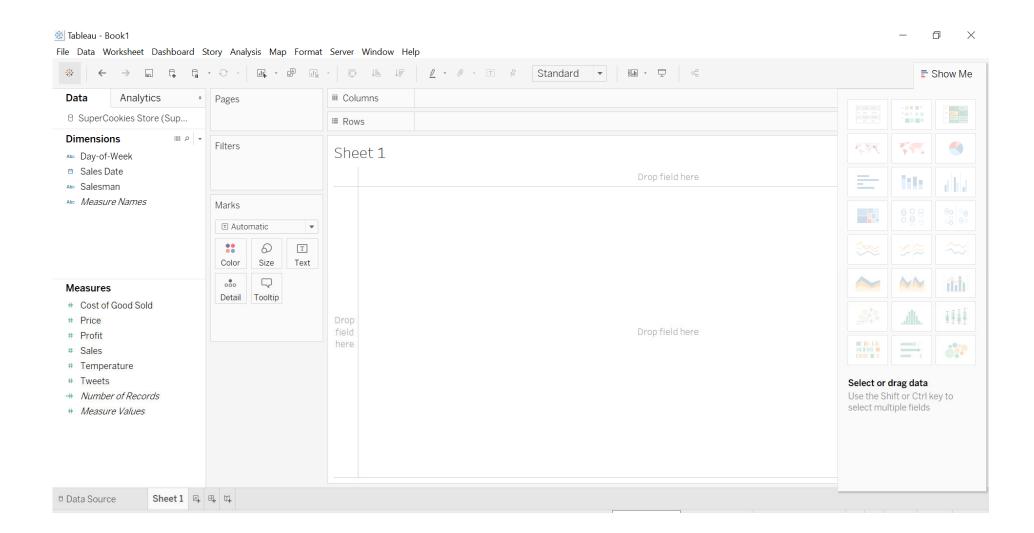


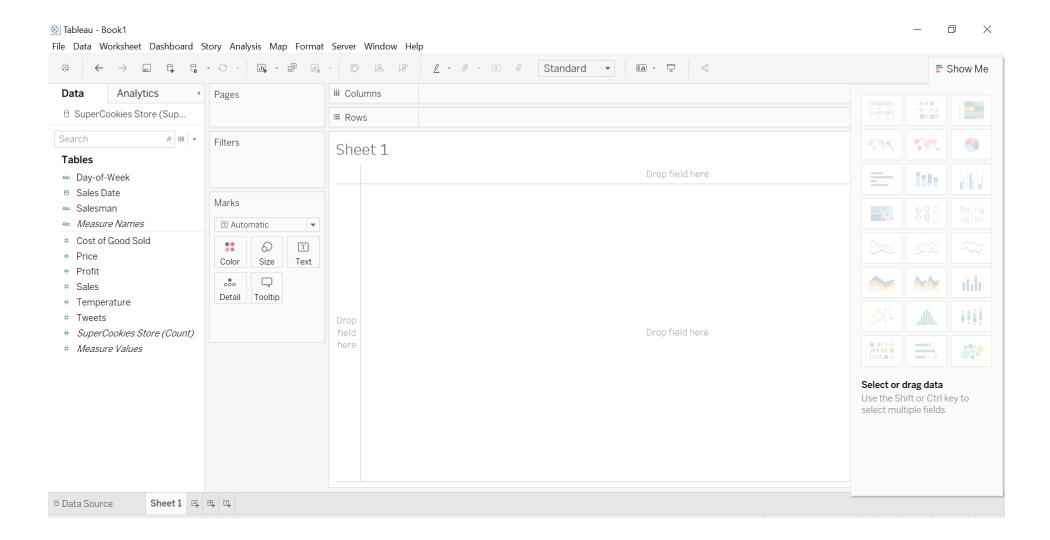


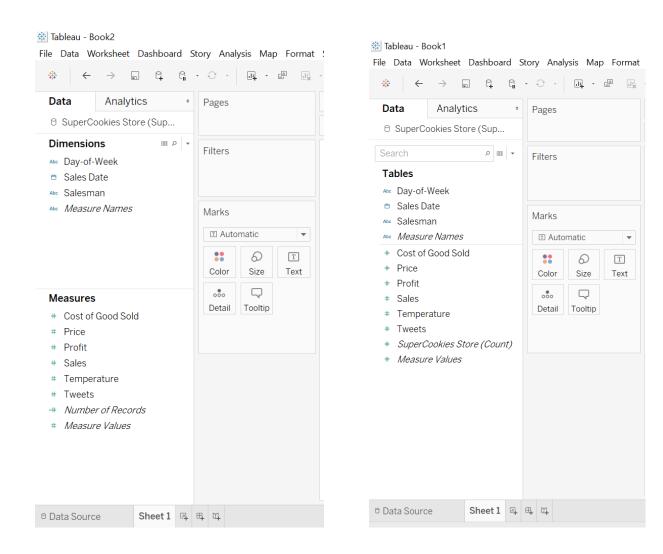
File Data Server Help









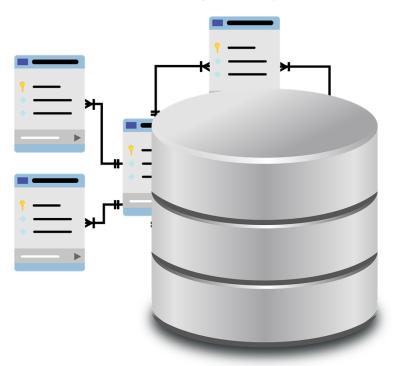


### Analytical Data Modeling

#### Two fundamental building blocks:

- **Dimensions** = made up of textual attributes
  - Not countable
  - Can be used to group, filter, and build hierarchies
- Measures = numeric facts
  - Countable
  - Typically additive

Tableau: Connecting to MySQL and Random Sample Generation



The Tableau Way!

Visualization	
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#### Visualization Principles

- Right tool for the right job
  - Use most effective graph type
- Be factual and ethical
  - Avoid misleading intentionally or unintentionally
- Size matters
  - Concept of proportion
- Color me beautifully appropriately
  - Choose color wisely
- Support your message
  - Align with your story
- KISS applies here!
  - Keep it simple, student

# Bar Graph

- Countable, Measurable
- Length and Height
- Frequencies
- Compares and Contrast
- Origin at zero
- Vertical vs horizontal
- Stack or side-by-side

# Line Graph

- Countable, Measurable
- Progression, changes, trends over time
- One or more groups (logical relationship)
- Does not have to start from zero
- Linear vs Logarithmic

# Pie Graph

- Countable, Measurable
- Compares parts of a whole
- Large part vs small part

# Scatter Graph

- Countable, Measurable
- Relationship between two continuous variable
- Correlation, Regression

# Histogram Graph

- Distribution
- Central Tendency Mode