# Data properties

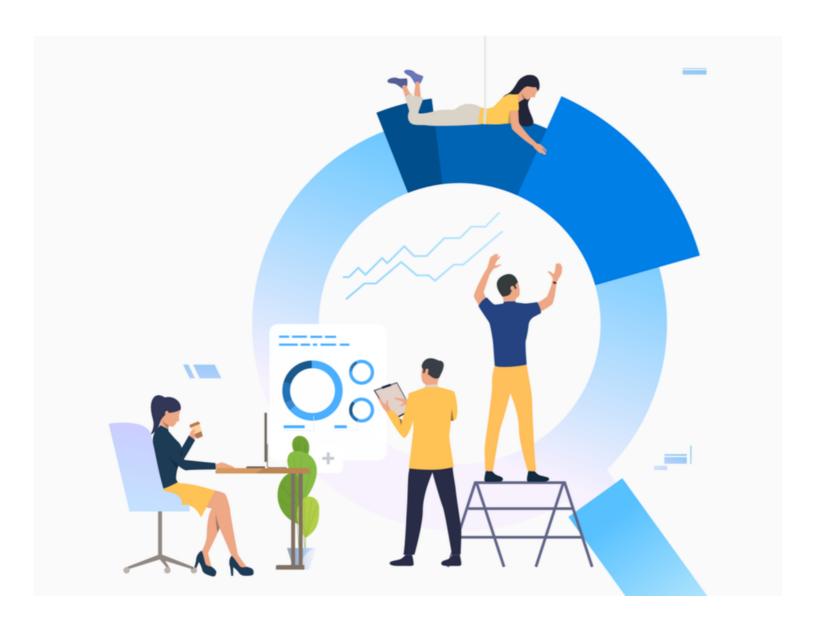
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Curriculum Manager, DataCamp



### Managing data



- Dimension/measure assignments
- Column name/alias changes
- Data types changes
- Default properties assignments

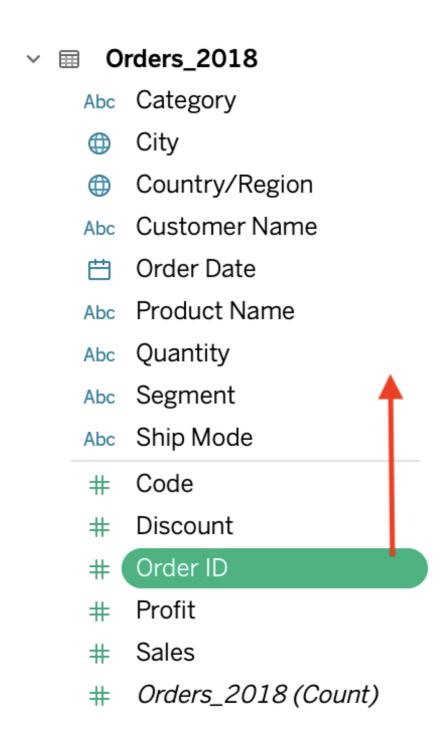
### Dimension vs. measures

#### **Dimensions**

- Qualitative values
- E.g., names, dates, geographical data

#### Measures

- Numeric/quantitative values
- E.g., price, duration, age



### Column names and aliases

### Change column names

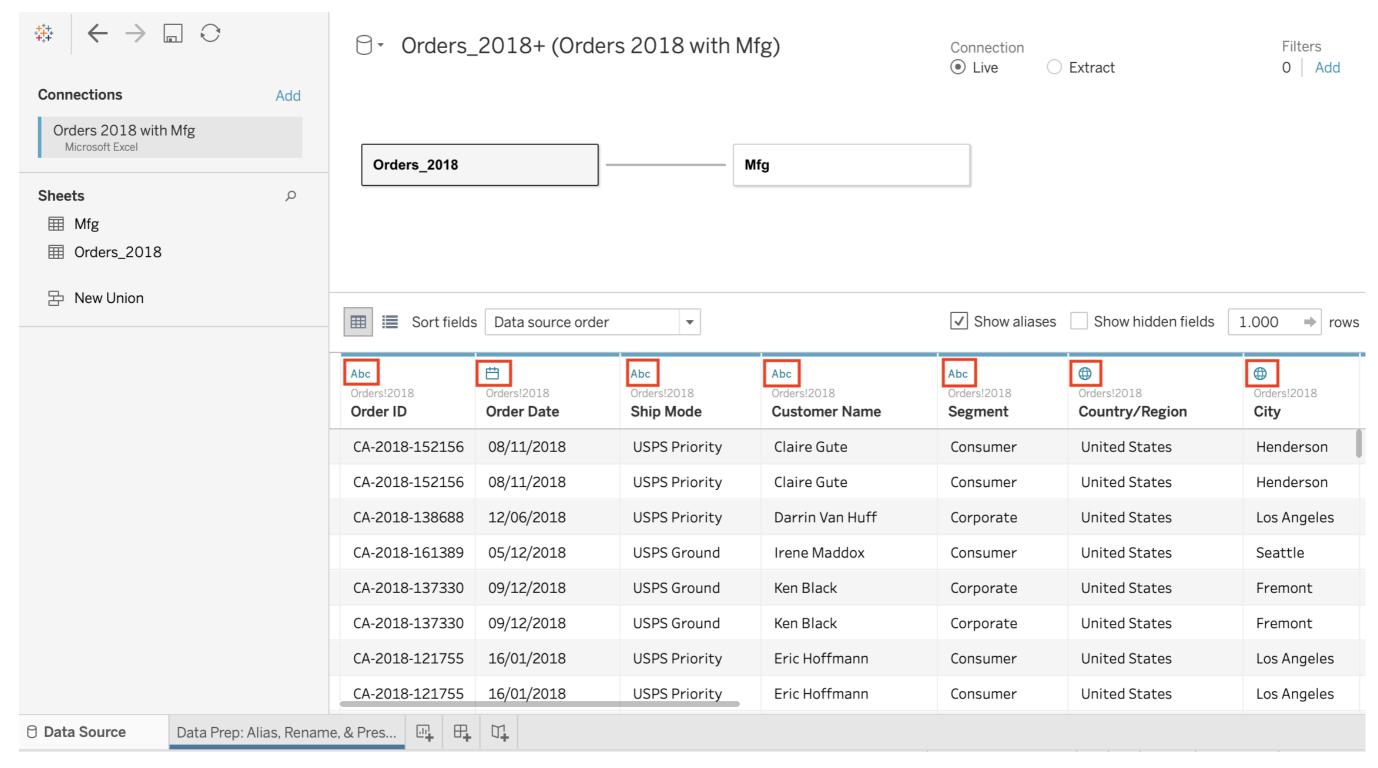
### Abc Orders!2018 Type Segment -Consumer Consumer Corporate Consumer Corporate Corporate Consumer

### Change aliases

Abc Orders!2018 Segment	
Consumer-	b2c
Consumer-	b2c
Corporate	b2b
Consumer-	b2c
Corporate	b2b
<del>Corporate</del>	b2b
Consumer-	b2c

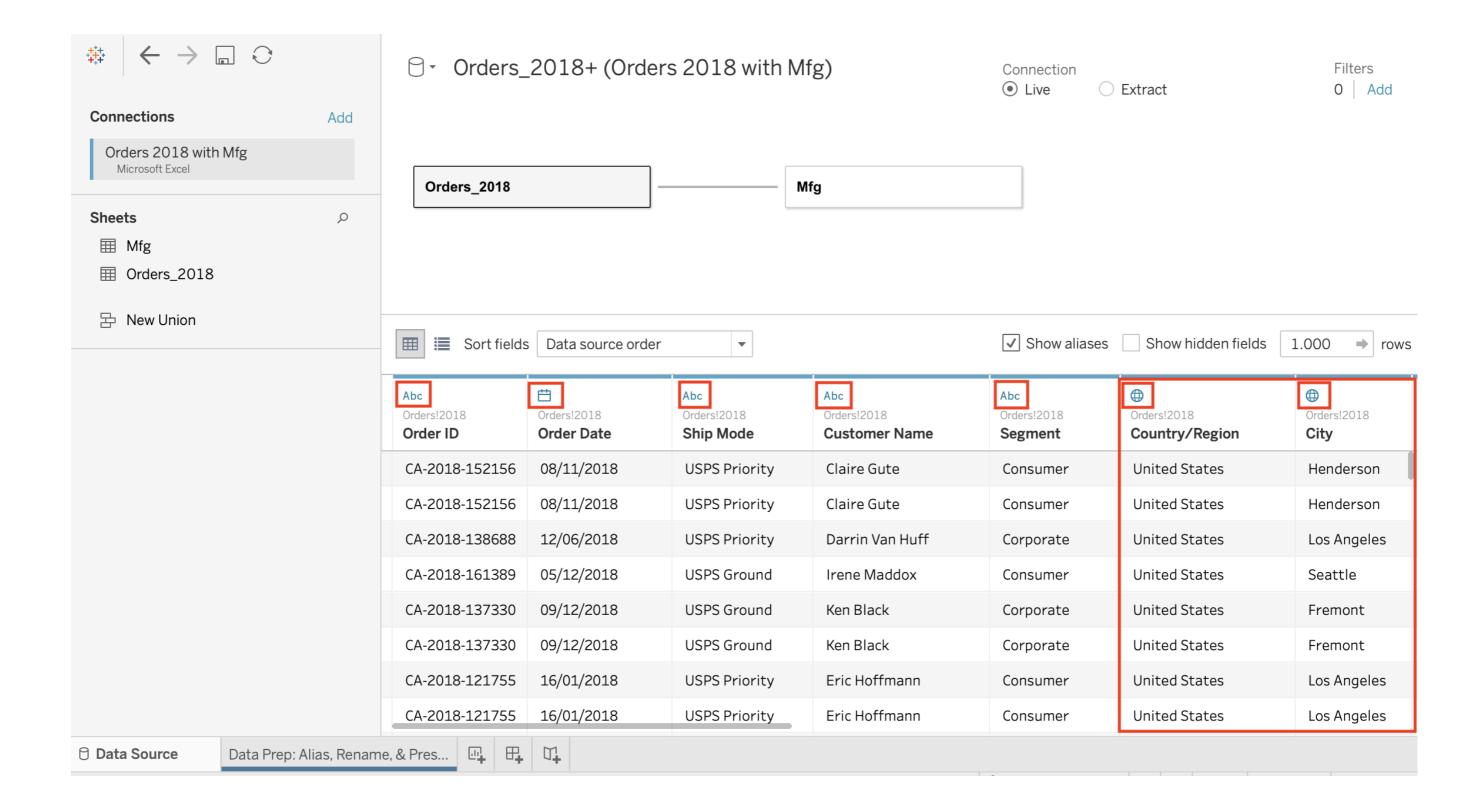
### Data types

Data type	Example
String values	Celia
Number (integer) values	15
Date values	16-07-1993
Date and time values	18-03-2016 12:45:28 AM
Boolean values	True
Geographic values	United States
Cluster or mixed values	A mix of the above



<sup>&</sup>lt;sup>1</sup> https://help.tableau.com/current/pro/desktop/en-us/maps\_geographicroles.htm







### Default properties

Allows the analyst to assign characteristics to be consistently shown

- Aggregation
- Comments
- Number formatting
- Color
- Shape
- Totals

# Let's practice!



# Managing the presentation of data

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# Let's practice!



# More data management

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Sara Billen Instructor



# Let's practice!



### Tableau connectors

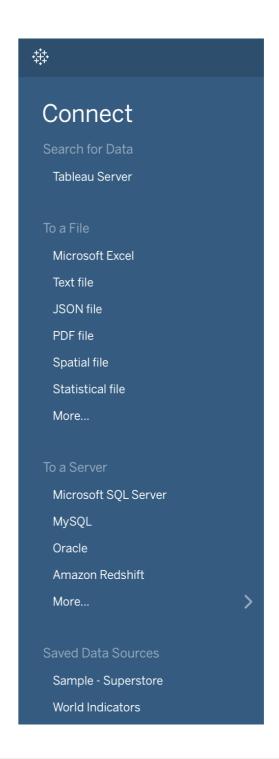
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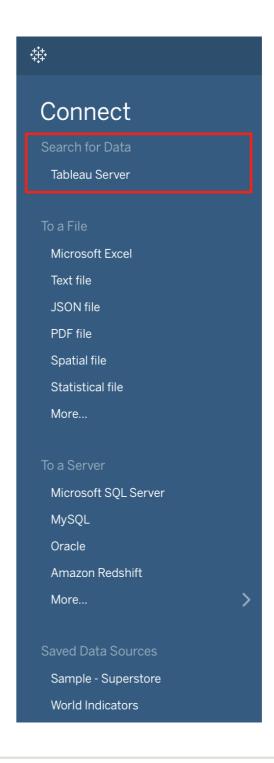
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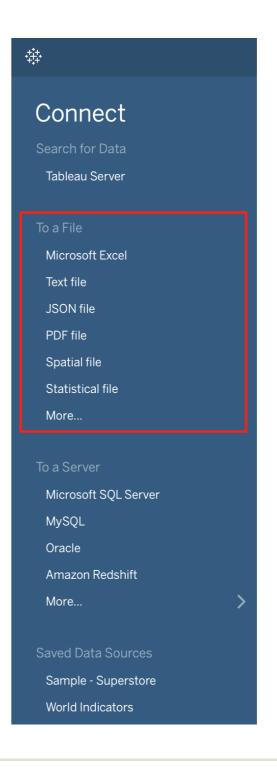
• Four options:



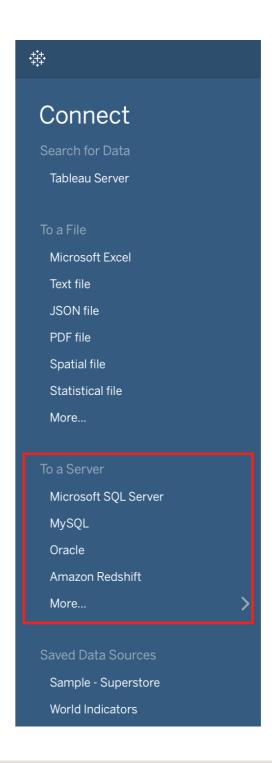
- Four options:
  - Tableau server



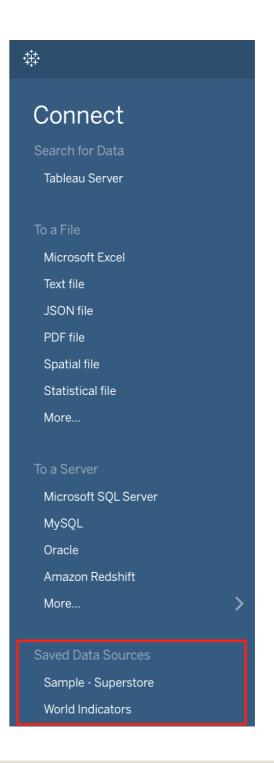
- Four options:
  - Tableau server
  - File



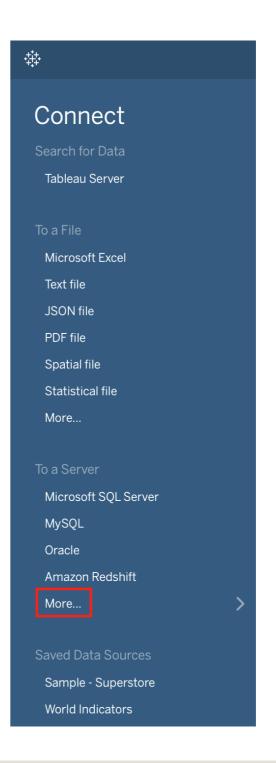
- Four options:
  - Tableau server
  - File
  - Server

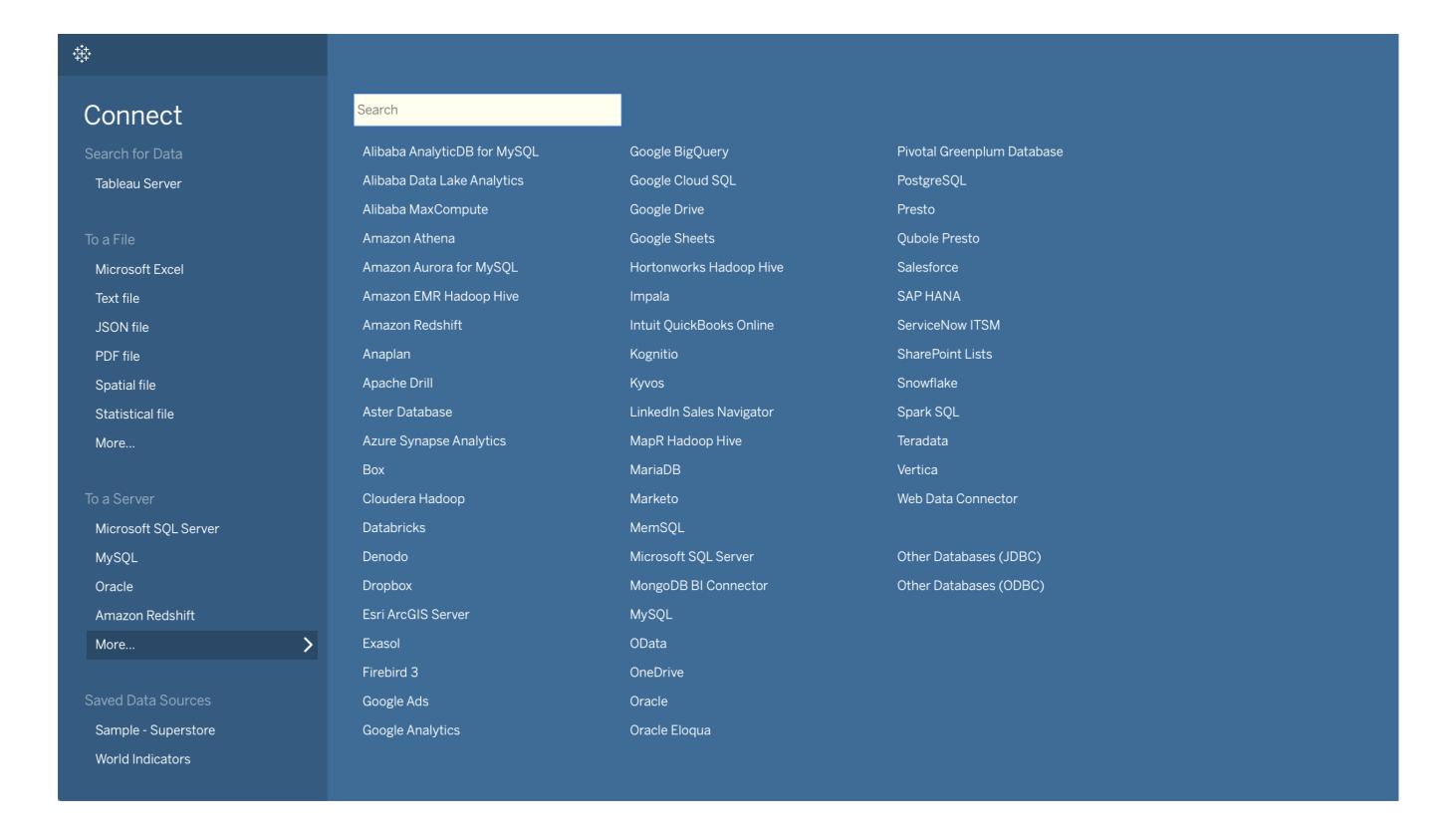


- Four options:
  - Tableau server
  - File
  - Server
  - Saved data source

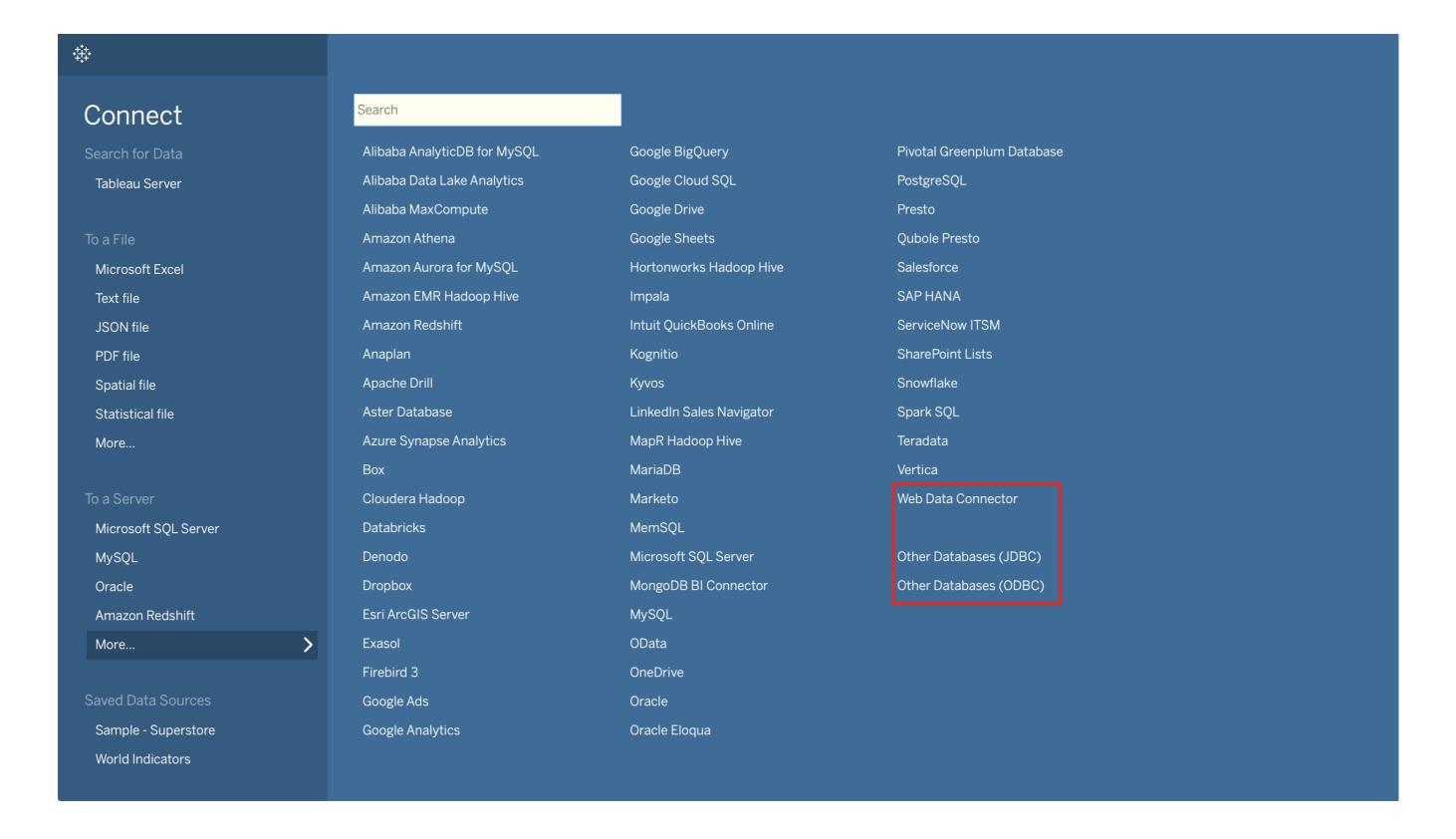


- Four options:
  - Tableau server
  - File
  - Server
  - Saved data source



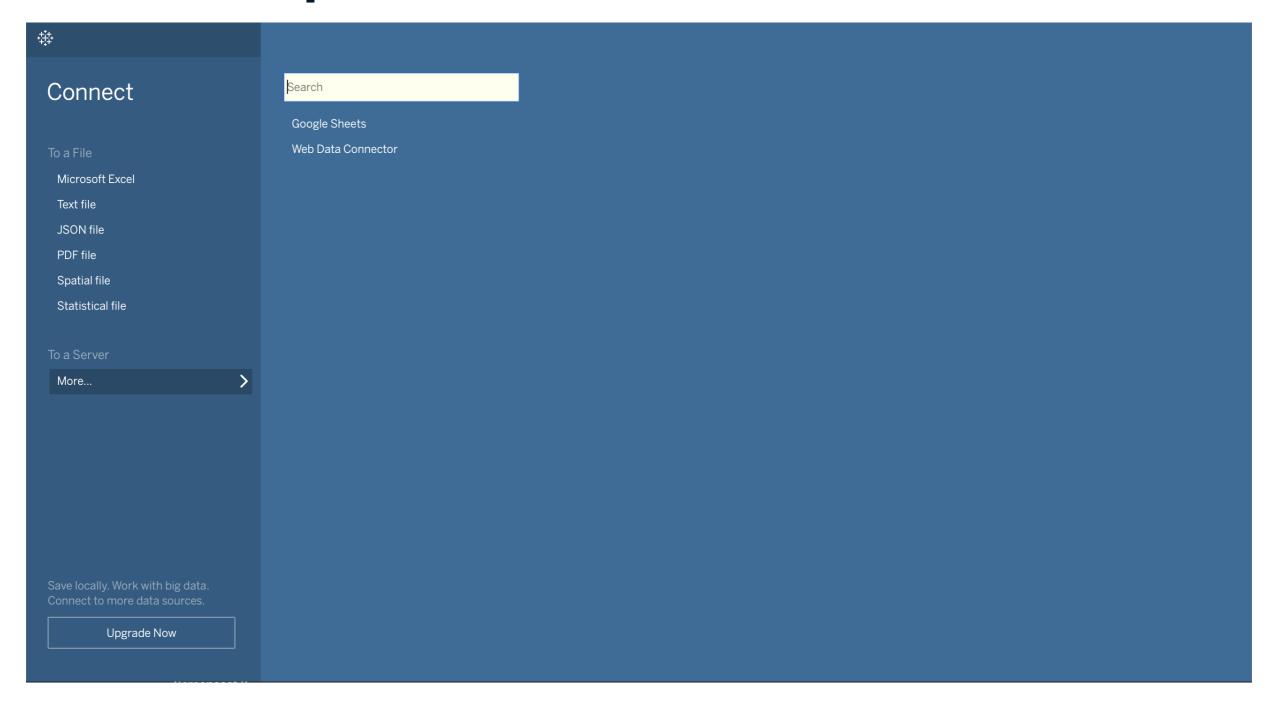








### Tableau Desktop vs Tableau Public





### Sharing your data

- Save as data source
- .tds file
- Does not contain actual data
- Includes:
  - Information necessary to connect to the actual data: e.g. database server address, port, location of local files, tables
  - Modifications made: e.g. groups, sets, calculated fields, bins, default properties
- Use if the other person has access to the underlying file or database
- Only possible in Tableau Desktop (not on Tableau Public)

## Let's demo!



# Connecting to data

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# Let's practice!



# **Filters**

#### **CONNECTING DATA IN TABLEAU**



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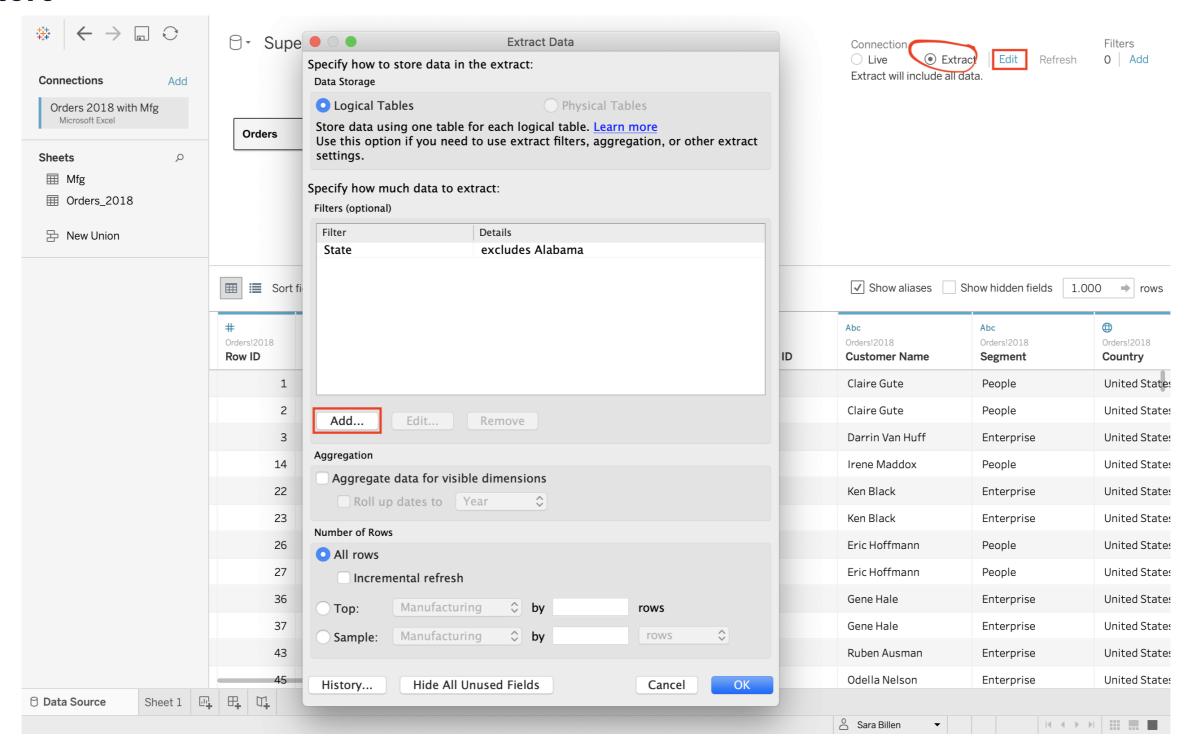


### Tableau's order of operations

#### Order of operations:

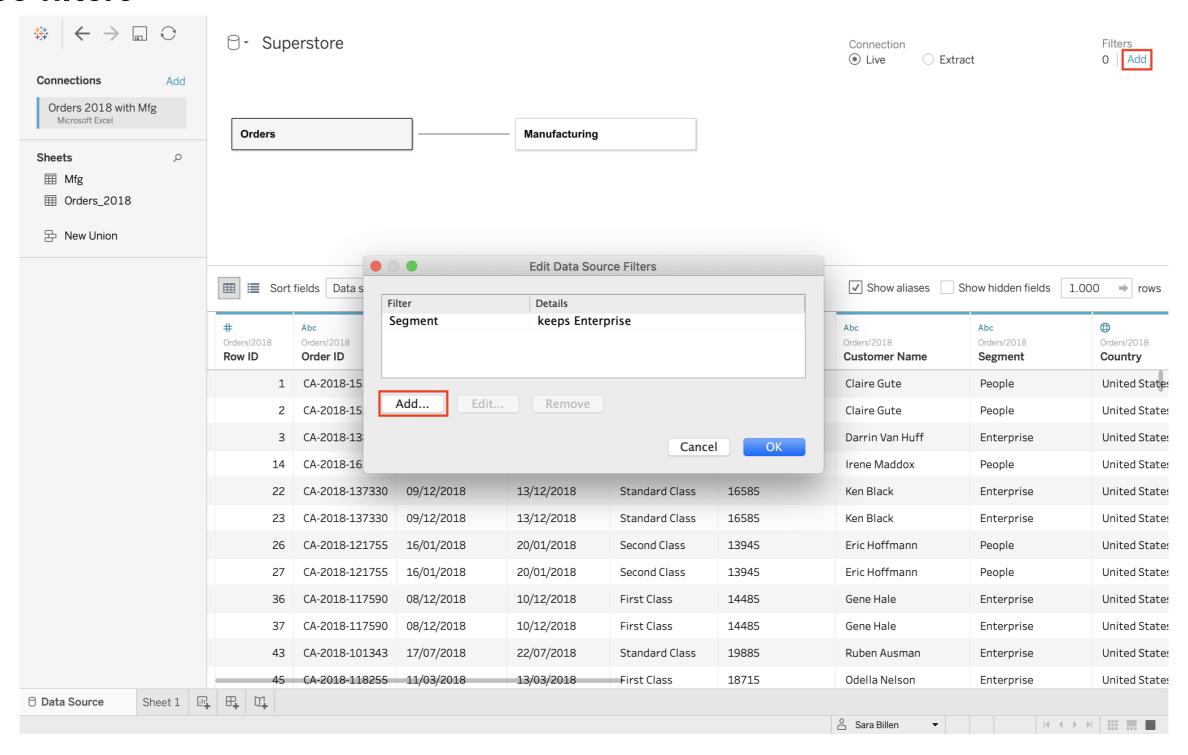
- 1. Extract filters
- 2. Data source filters
- 3. Context filters
- 4. Dimension filters
- 5. Measure filters
- 6. Table calc filters

#### **Extract filters**



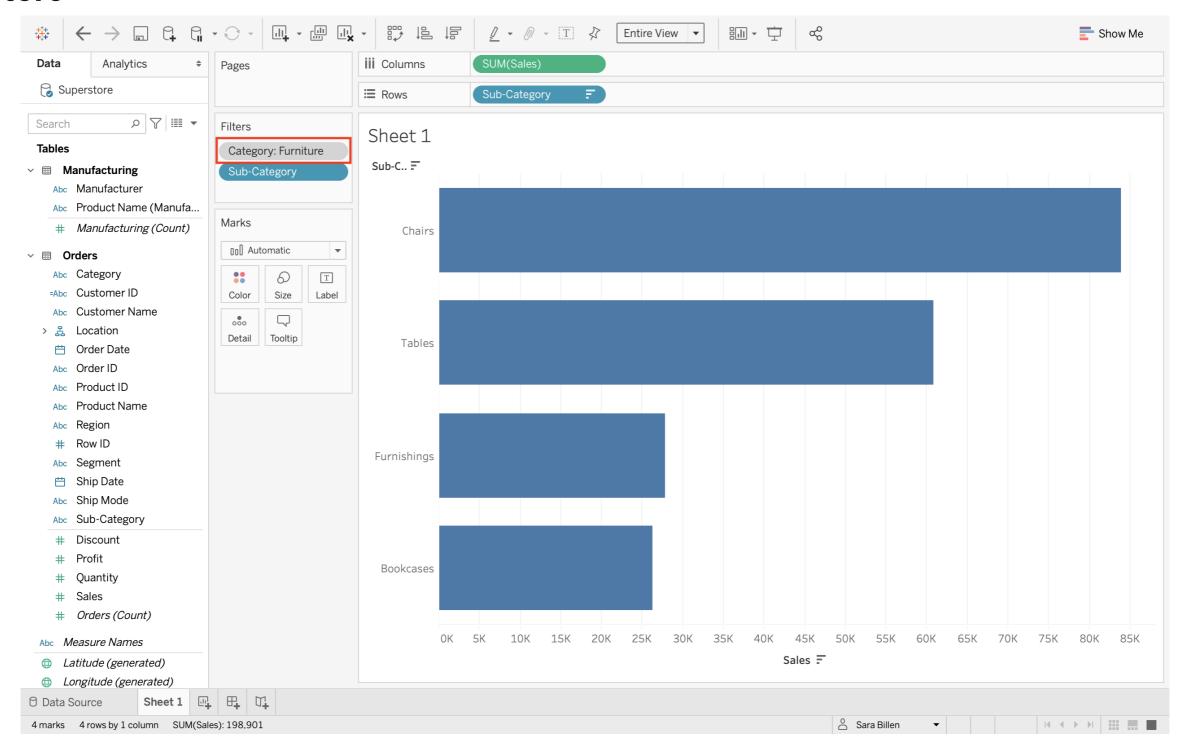


#### **Data source filters**





#### **Context filters**





### Context filters example

### Approach 1

#### 1. Apply Dimension filter on Furniture

Category	Customer	Country	Sales
Furniture	Claire Gute	Germany	\$408
Office Supplies	Sean O'Donnell	United Kingdom	\$9
Technology	Brosina Hoffman	Austria	\$665
Furniture	Brosina Hoffman	Austria	\$115
Technology	Pete Thompson	United States	\$60

### 2. Apply Dimension filter on Country

Category	Customer	Country	Sales
Furniture	Claire Gute	Germany	\$408
Office Supplies	Sean O'Donnell	United Kingdom	\$9
Technology	Brosina Hoffman	Austria	\$665
Furniture	Brosina Hoffman	Austria	\$115
Technology	Pete Thompson	United States	\$60

### Approach 2

#### 1. Apply Context filter on Furniture

Category	Customer	Country	Sales
Furniture	Claire Gute	Germany	\$408
Office Supplies	Sean O'Donnell	United Kingdom	\$9
Technology	Brosina Hoffman	Austria	\$665
Furniture	Brosina Hoffman	Austria	\$115
Technology	Pete Thompson	United States	\$60

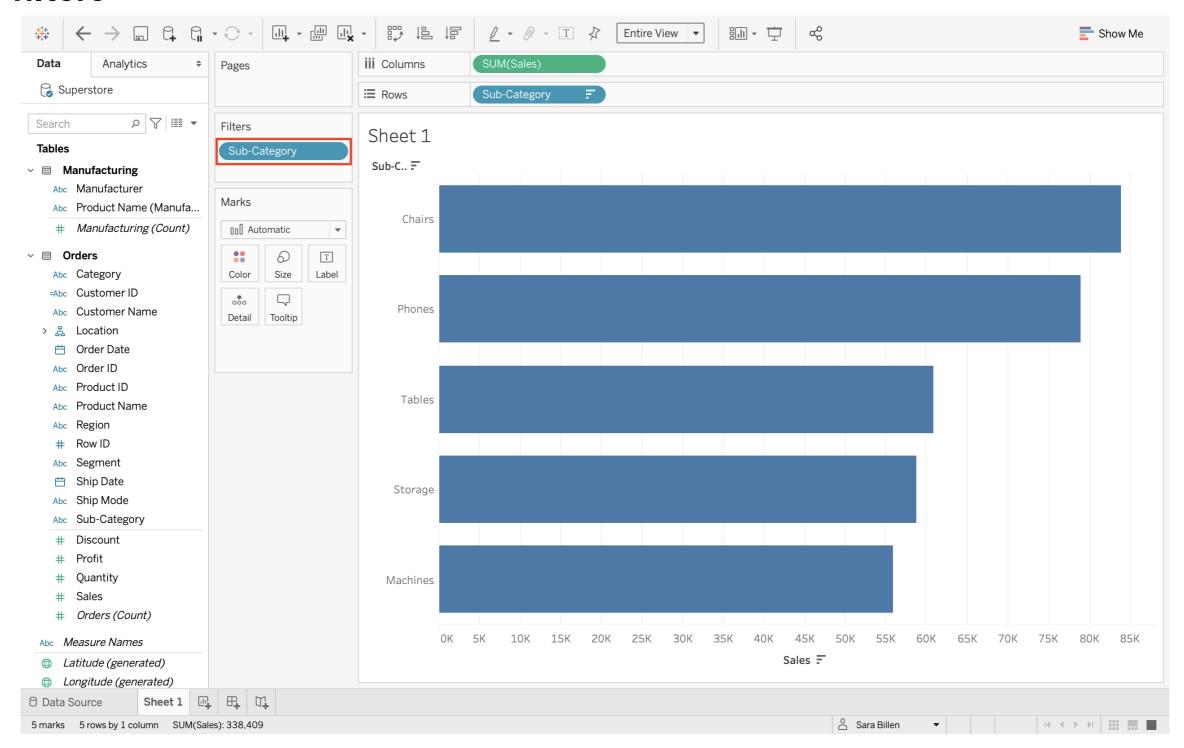
#### 2. Apply Dimension filter on Country

Category	Customer	Country	Sales
Furniture	Claire Gute	Germany	\$408
Furniture	Brosina Hoffman	Austria	\$115

-> Improved performance

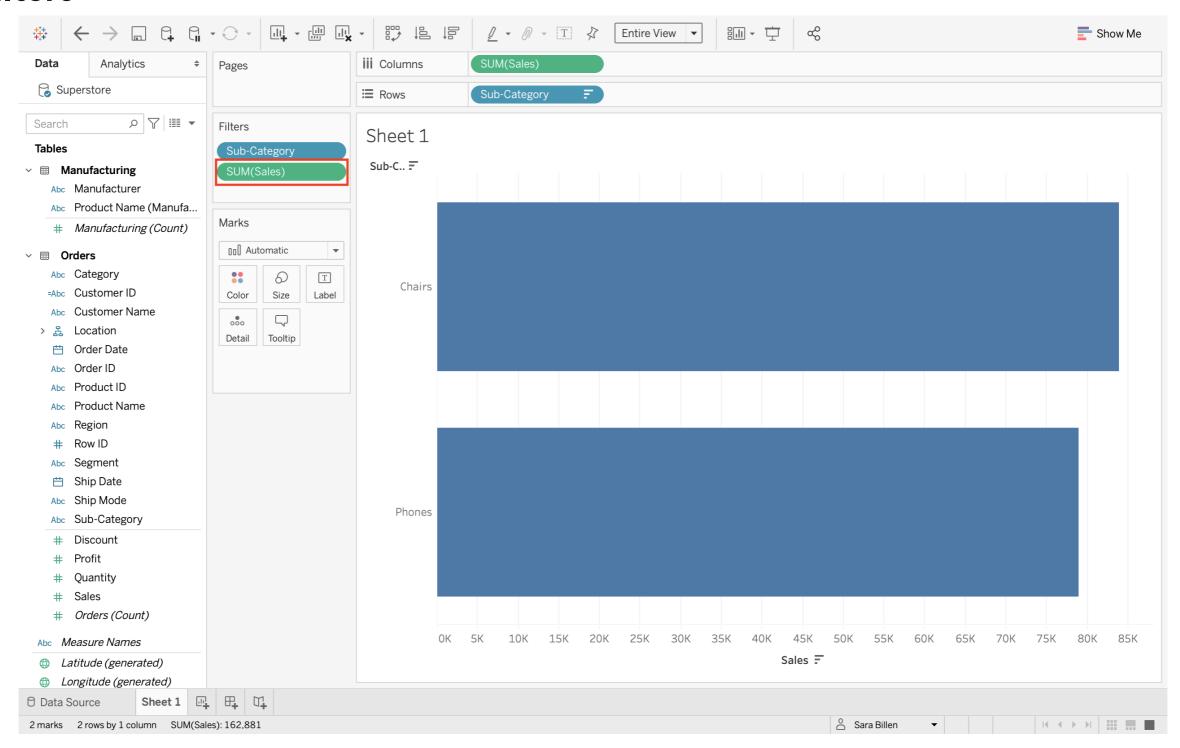


#### **Dimension filters**





#### **Measure filters**





## Let's demo!



### Tableau filters

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# Let's practice!

