Data properties

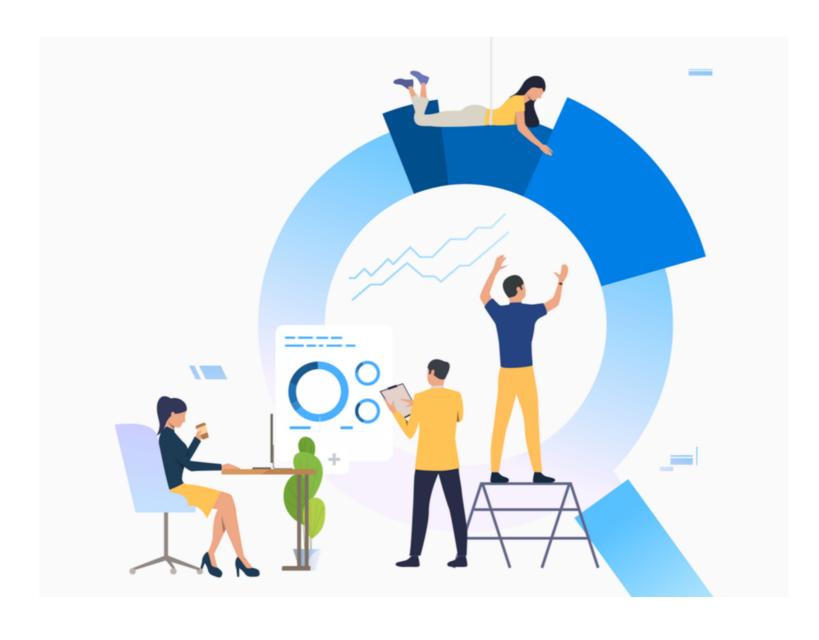
CONNECTING DATA IN TABLEAU



Sara Billen
Curriculum Manager, DataCamp



Managing data



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

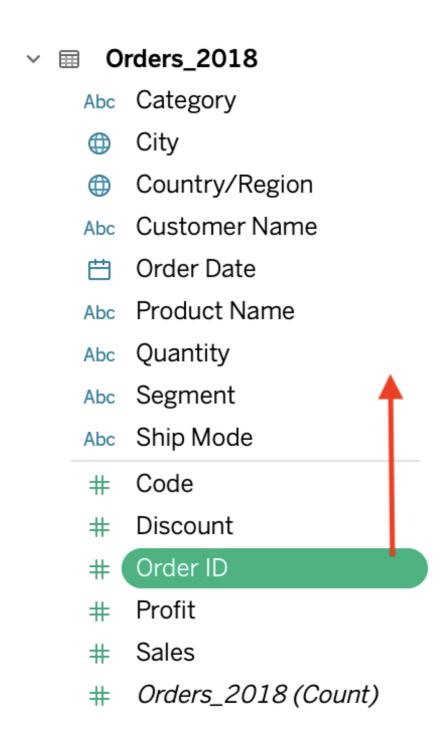
Dimension vs. measures

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

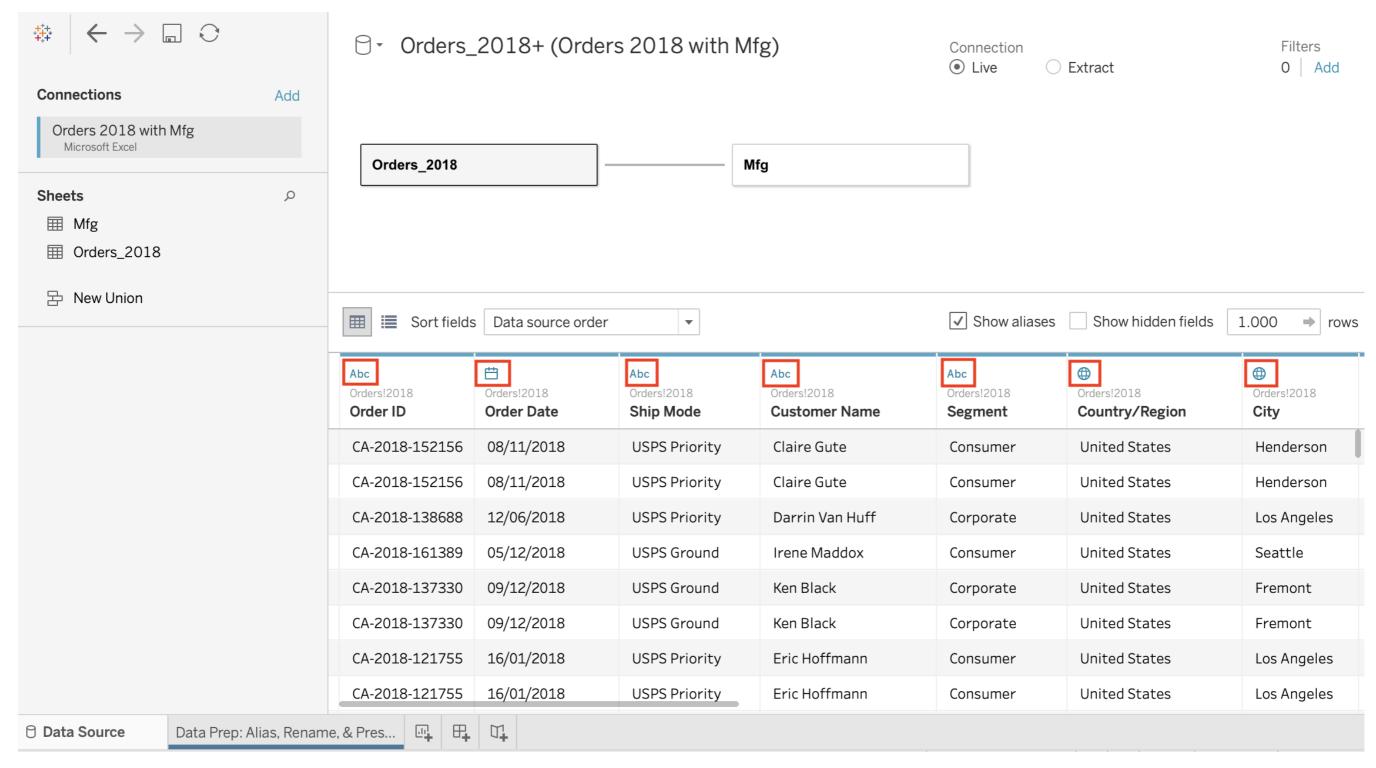
Abc Orders!2018 Type Segment Consumer Consumer Corporate Consumer Corporate Corporate Consumer

Change aliases

| Abc Orders!2018 Segment | |
|-------------------------------|-----|
| Consumer- | b2c |
| Consumer- | b2c |
| Corporate | b2b |
| Consumer- | b2c |
| Corporate | b2b |
| Corporate | b2b |
| Consumer- | b2c |

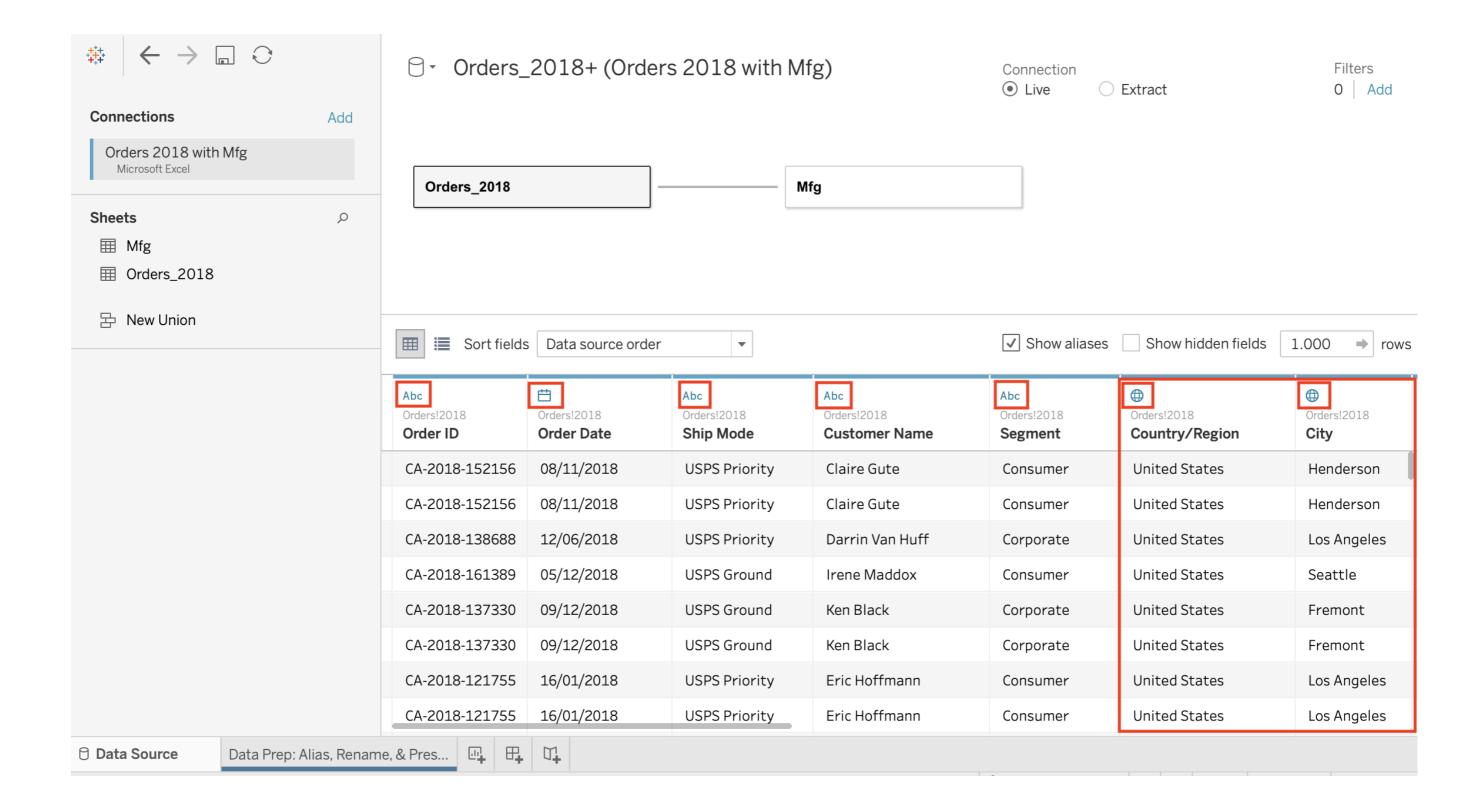
Data types

| 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 |



¹ 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

CONNECTING DATA IN TABLEAU



Sara Billen
Curriculum Manager, DataCamp



Let's practice!



More data management

CONNECTING DATA IN TABLEAU



Sara Billen Instructor



Let's practice!



Tableau connectors

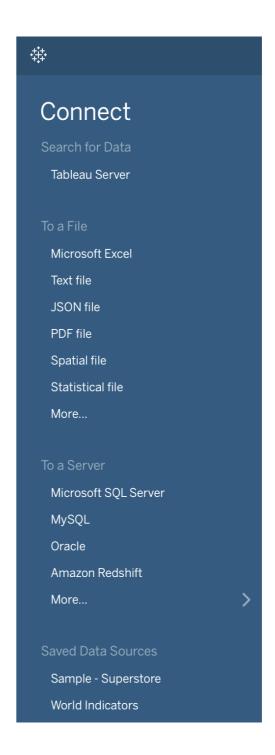
CONNECTING DATA IN TABLEAU



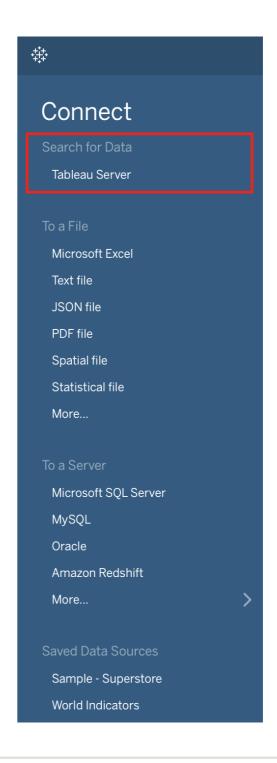
Sara Billen
Curriculum Manager, DataCamp



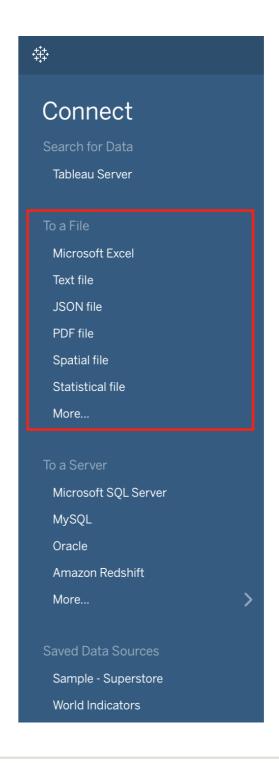
• Four options:



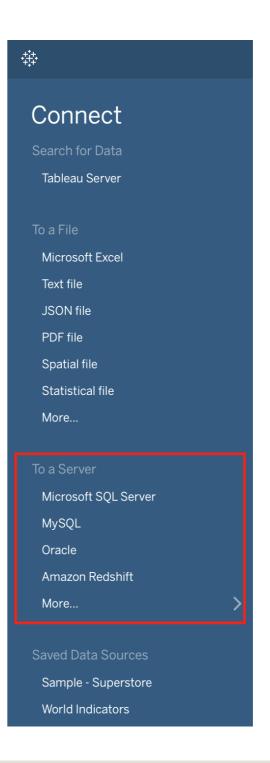
- Four options:
 - Tableau server



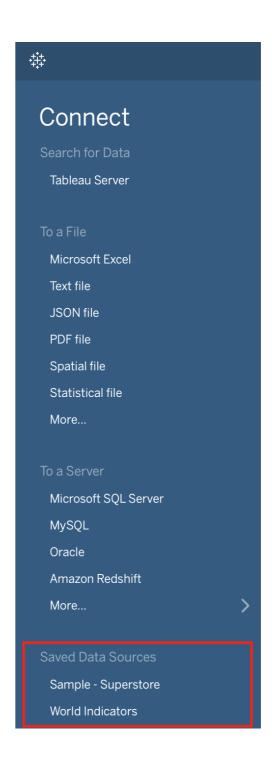
- Four options:
 - Tableau server
 - File



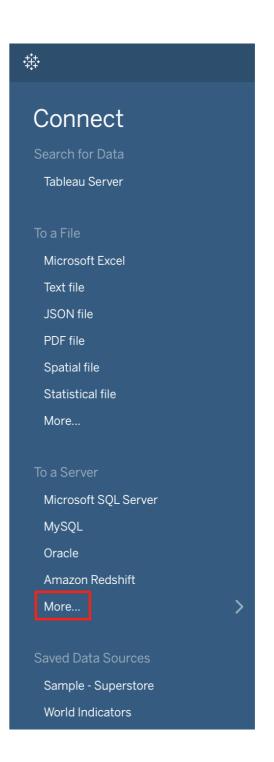
- Four options:
 - Tableau server
 - File
 - Server

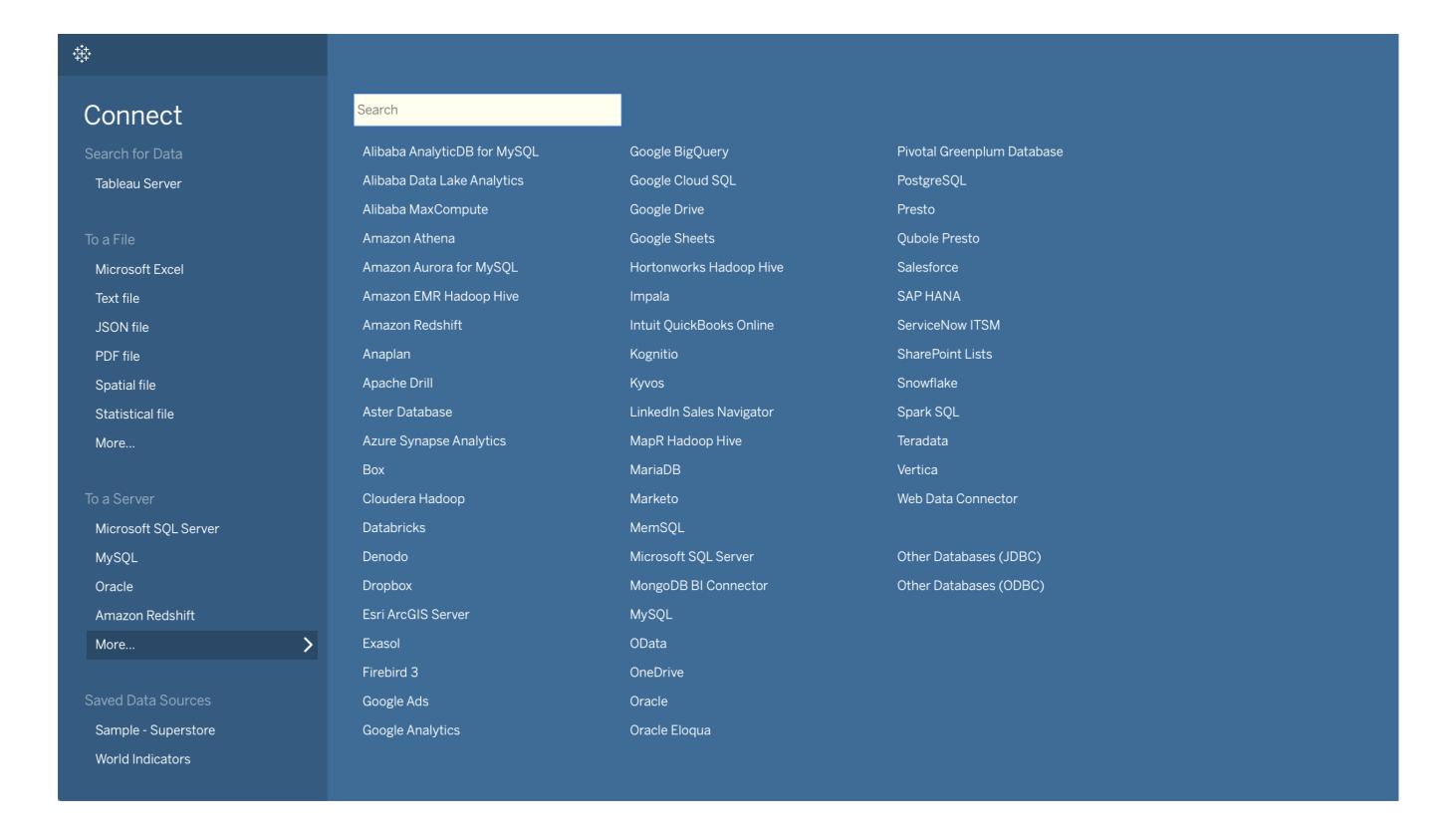


- Four options:
 - Tableau server
 - File
 - Server
 - Saved data source



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







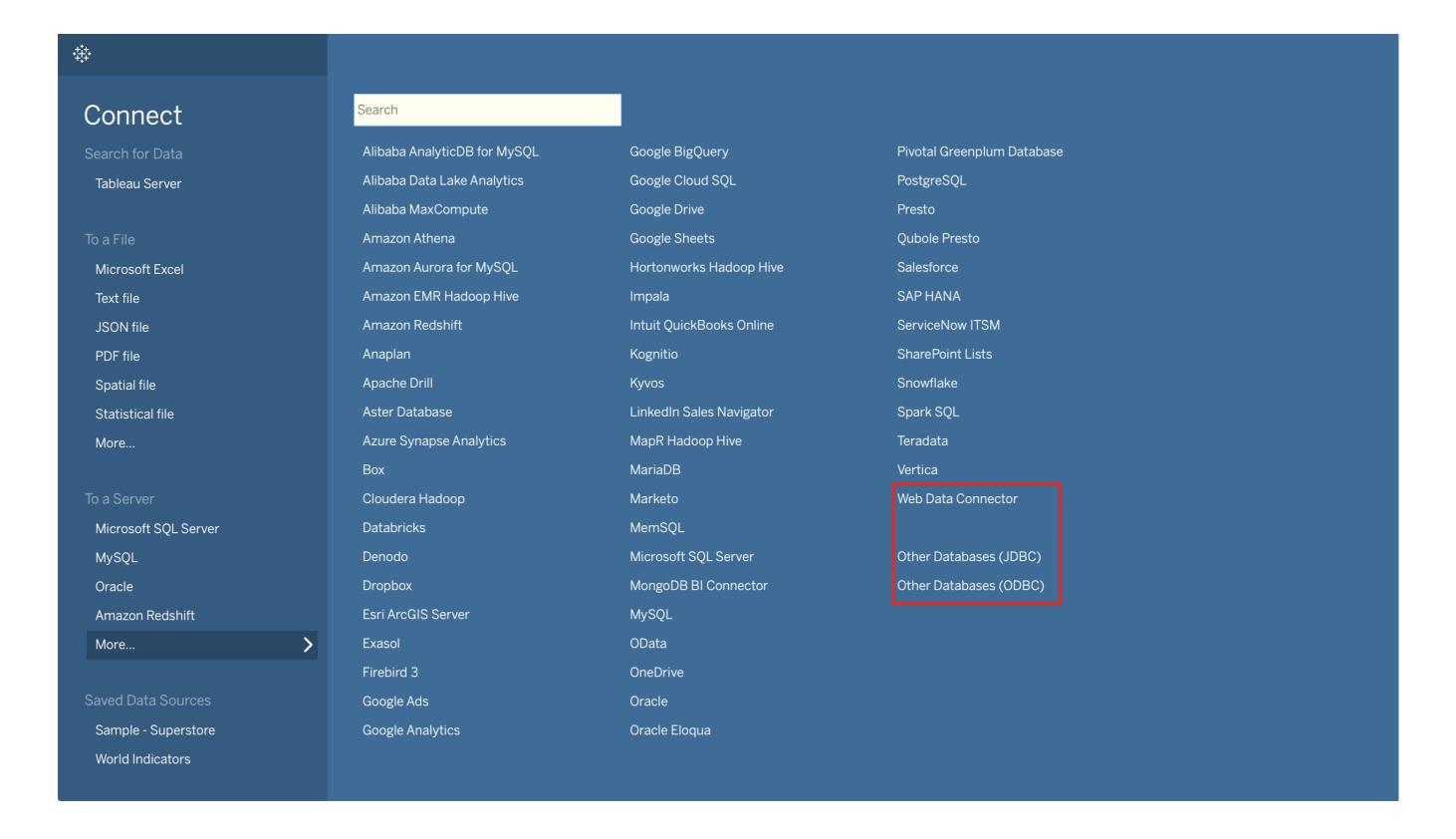
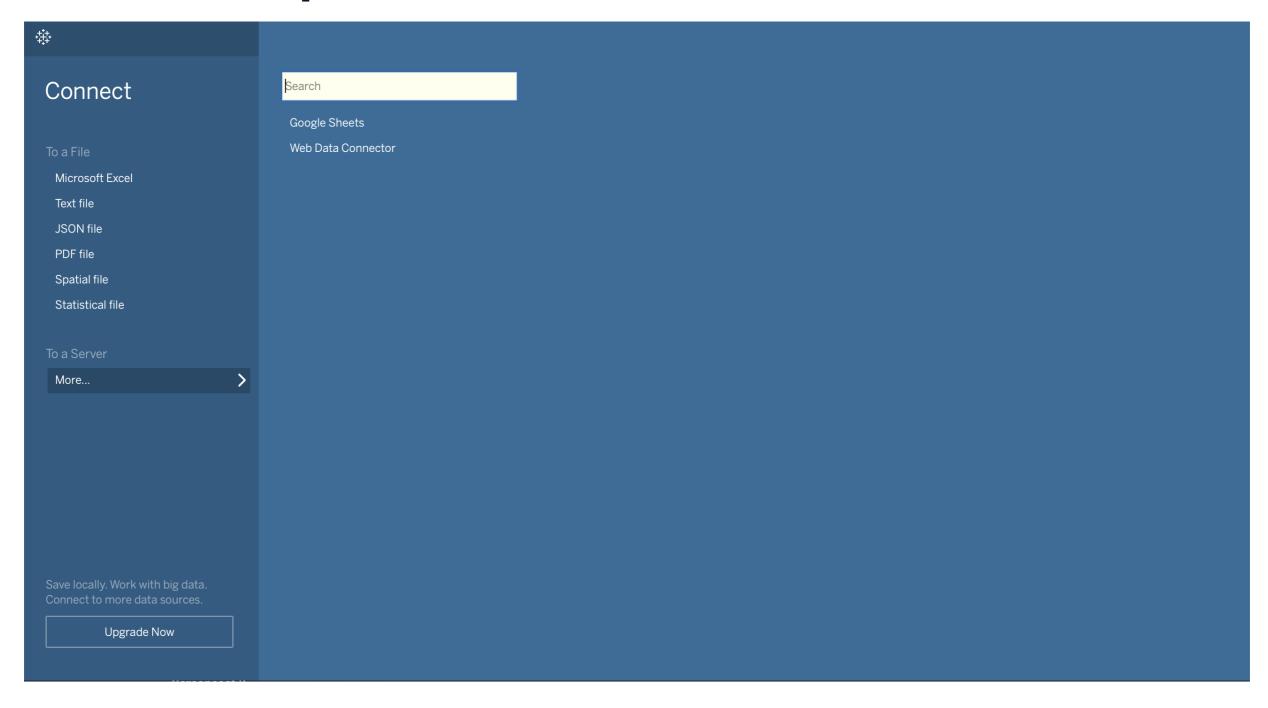




Tableau Desktop vs Tableau Public





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
 - o 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

CONNECTING DATA IN TABLEAU



Sara Billen
Curriculum Manager, DataCamp



Let's practice!



Filters

CONNECTING DATA IN TABLEAU



Sara Billen
Curriculum Manager, DataCamp

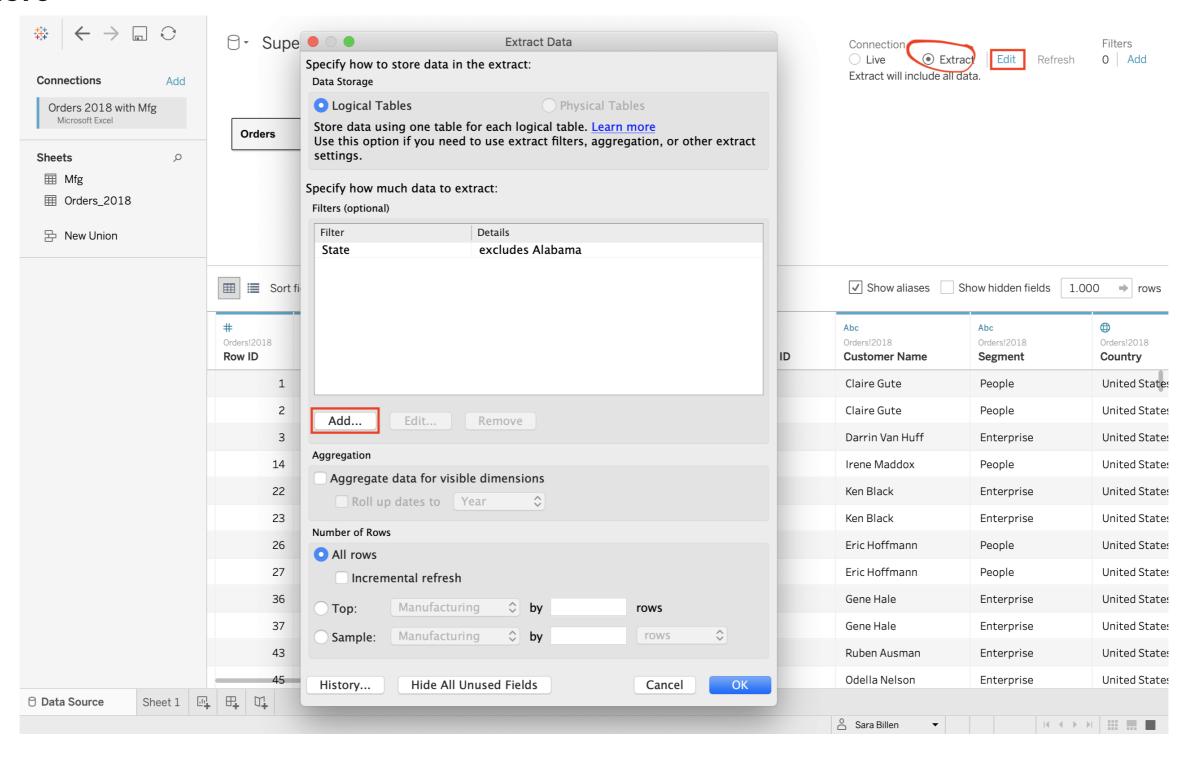


Tableau's order of operations

Order of operations:

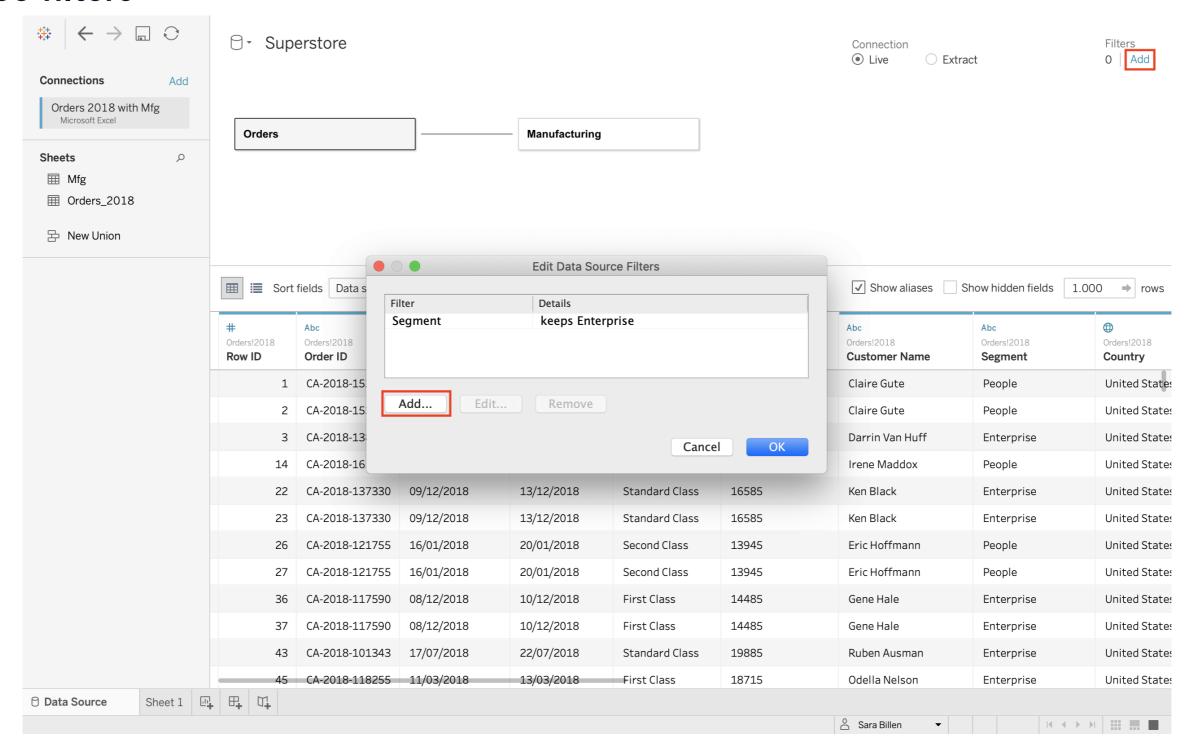
- 1. Extract filters
- 2. Data source filters
- 3. Context filters
- 4. Dimension filters
- 5. Measure filters
- 6. Table calc filters

Extract filters



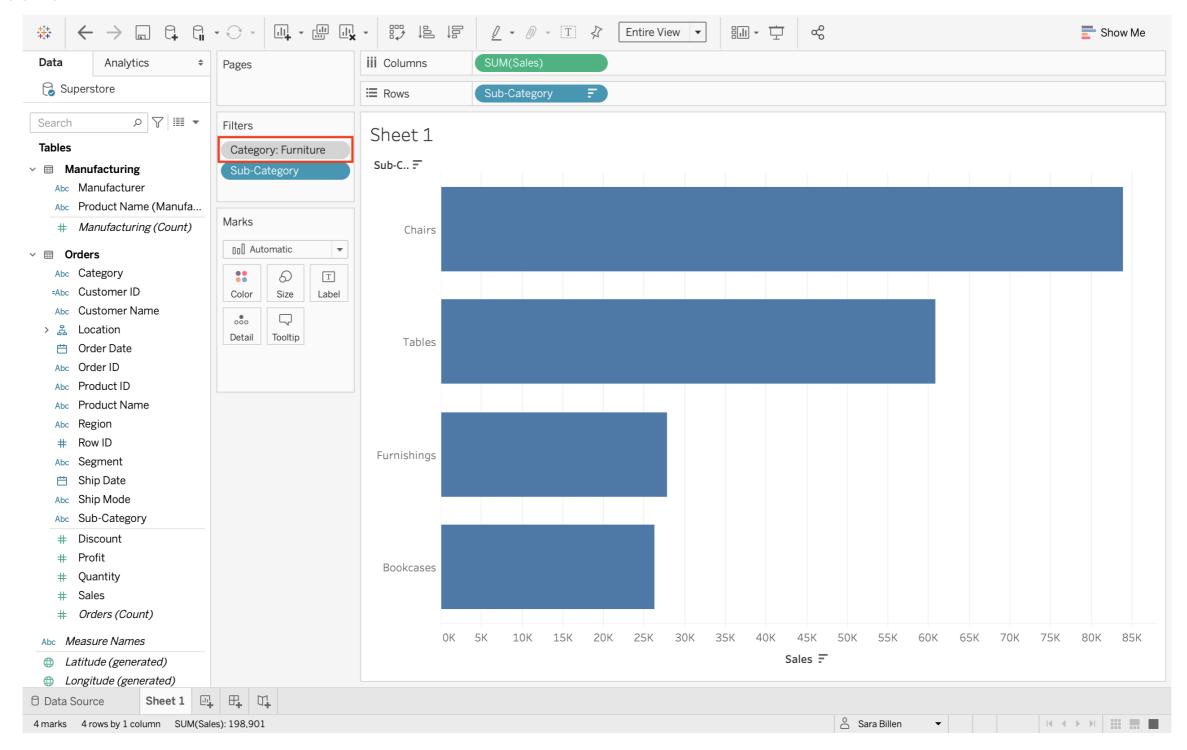


Data source filters





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 |

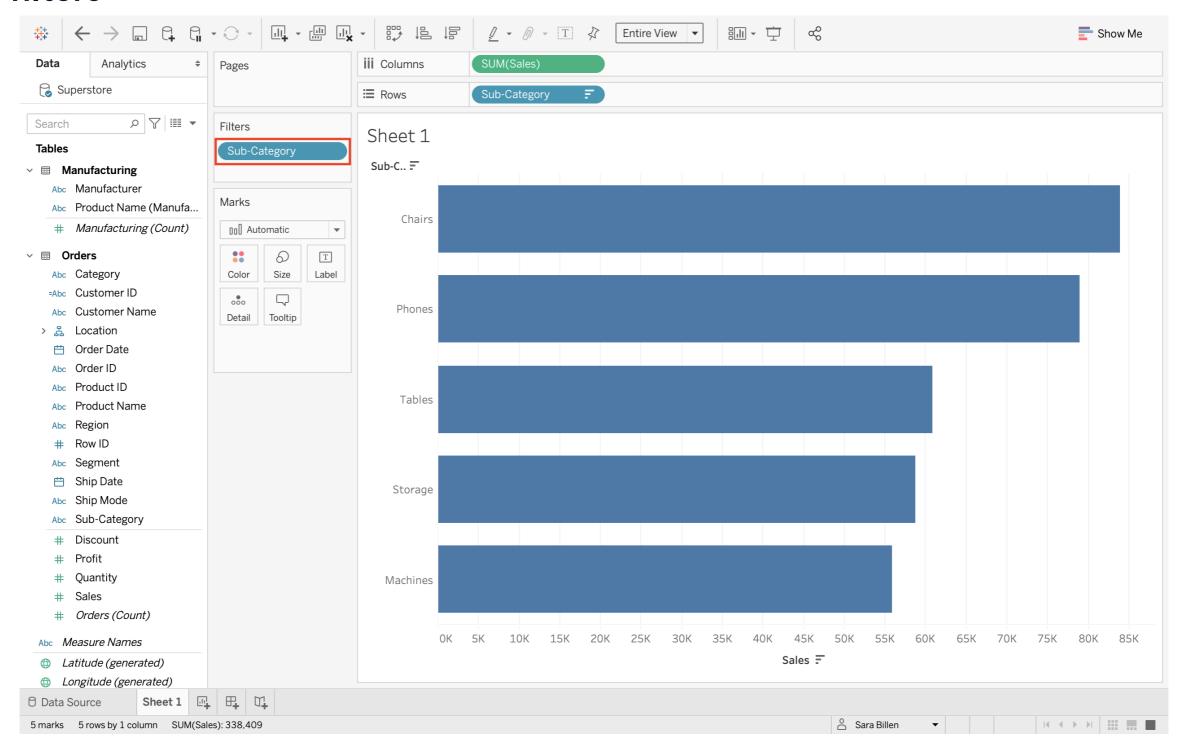
2. Apply Dimension filter on Country

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

-> Improved performance

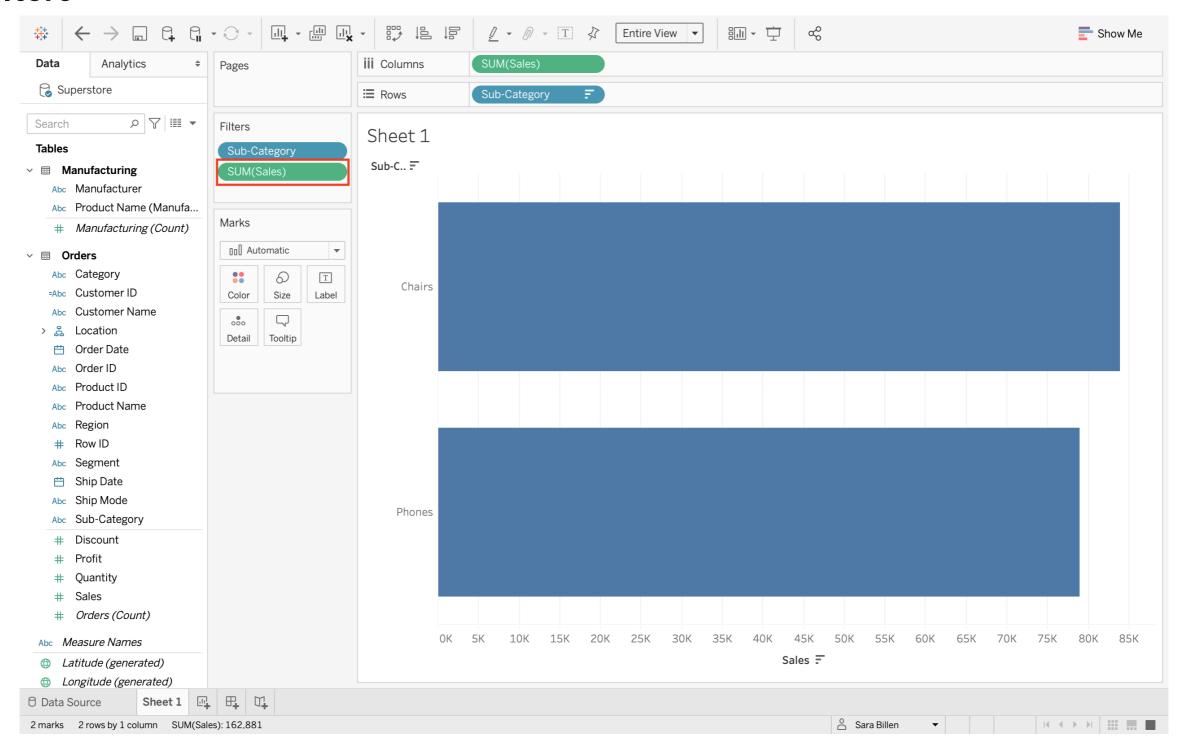


Dimension filters





Measure filters





Let's demo!



Tableau filters

CONNECTING DATA IN TABLEAU



Sara Billen
Curriculum Manager, DataCamp



Let's practice!

