

## COMBINED AND CALCULATED FIELDS

**Combine fields** to create a cross product of members from different dimensions. We can combine dimensions if we want to encode a data view using multiple dimensions.

For a **Combined Field**, comma ( “ , ” ) is the default separator assigned by Tableau between the two fields/members.

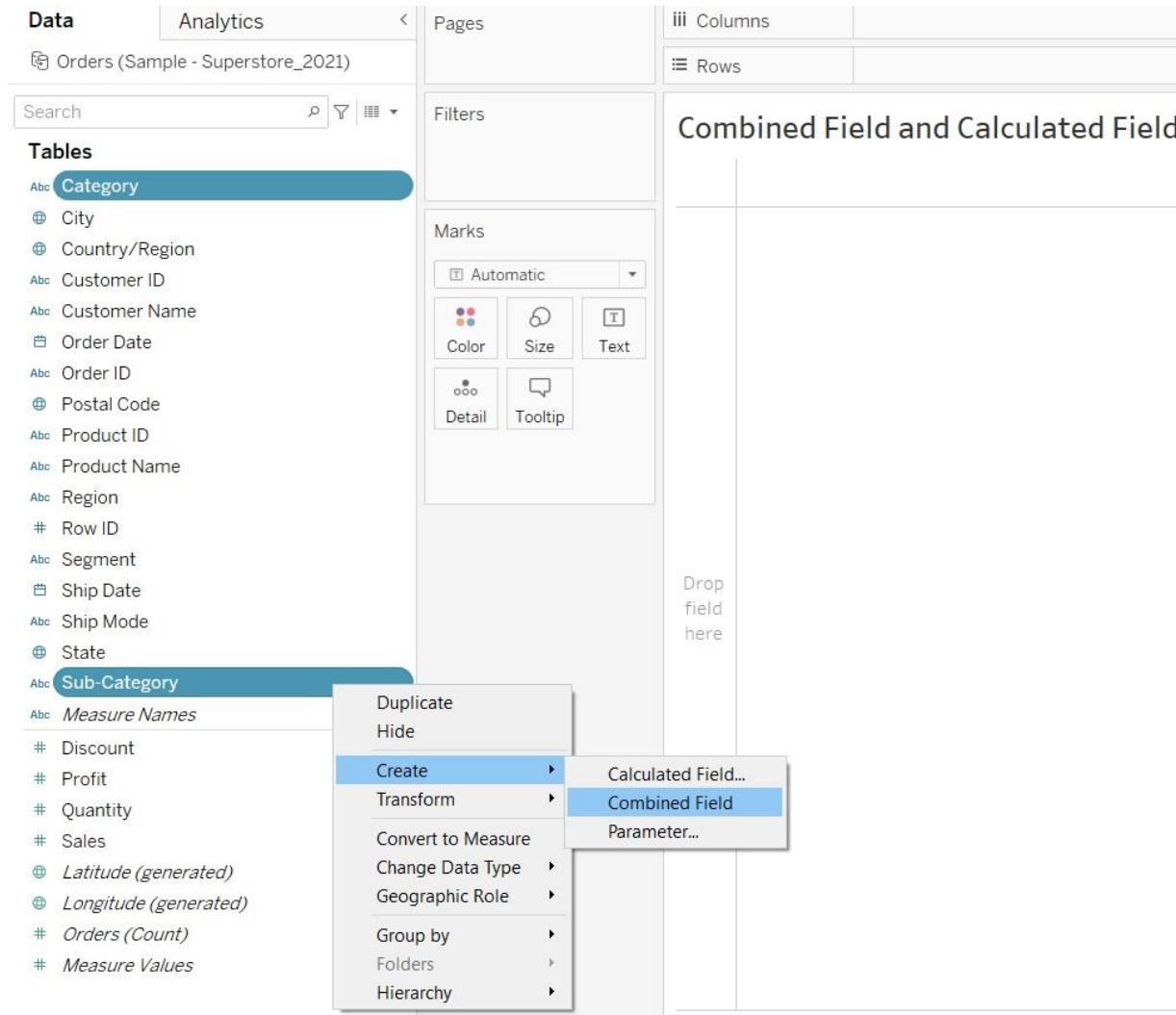
**We CAN modify it to any other character ONLY after the first-time creation of the combined field.**

For a **Calculated Field** we can assign anything i.e., "-" or a simple space " " as the separator between the two fields/members.

**We CAN modify it during the first-time creation of the calculated field itself.**

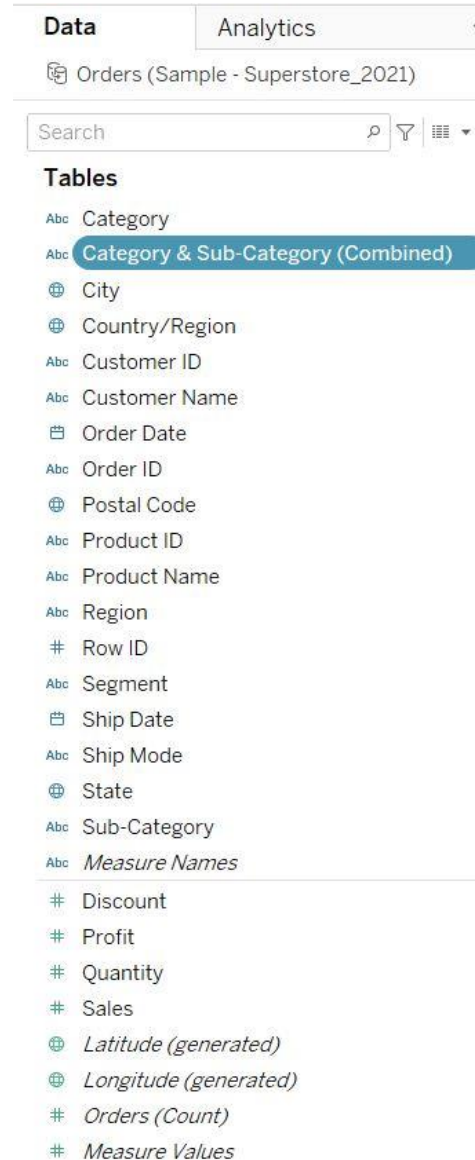
# STEPS TO CREATE A COMBINED FIELD

**Step 1:** To combine the fields, select multiple dimensions in the **Data** pane and then **right-click** (control-click on a Mac) **the fields** and select **Create > Combined Field**



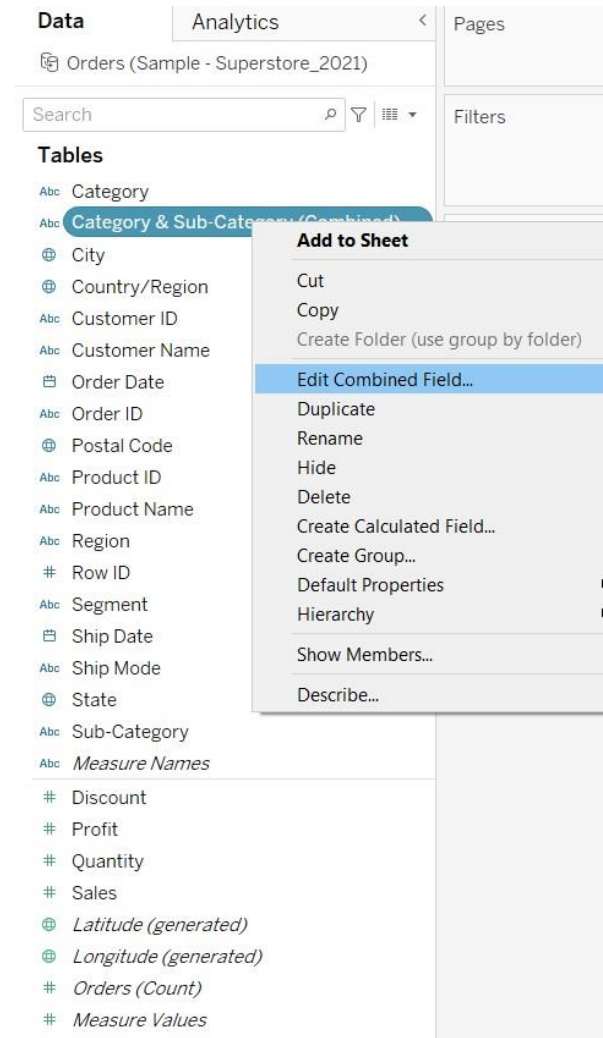
# STEPS TO CREATE A COMBINED FIELD

**Step 2:** The **Combined Field** will now be present in the **Data** pane



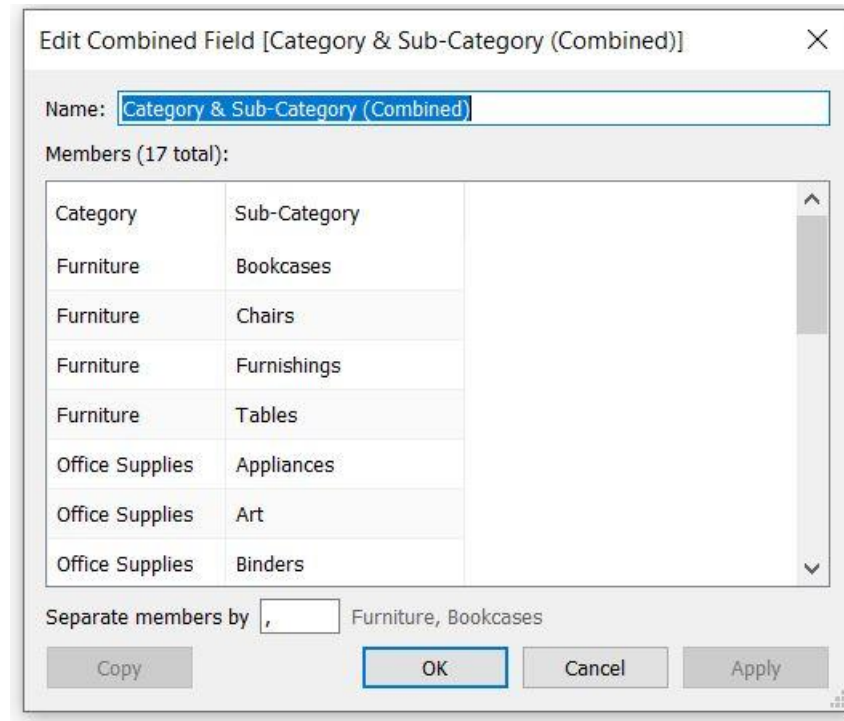
# STEPS TO CREATE A COMBINED FIELD

**Step 3:** If required, **right-click** (control-click on a Mac) **the field** and select **Edit Combined Field**



# STEPS TO CREATE A COMBINED FIELD

**Step 4:** The default separator between the members for a Combined Field is a comma (“ , “). If required, we can change the separator in this **Edit Combined Field box**



Edit Combined Field [Category & Sub-Category (Combined)]

Name:

Members (17 total):

Category	Sub-Category
Furniture	Bookcases
Furniture	Chairs
Furniture	Furnishings
Furniture	Tables
Office Supplies	Appliances
Office Supplies	Art
Office Supplies	Binders

Separate members by  Furniture, Bookcases

# STEPS TO CREATE A COMBINED FIELD

**Step 5: Drag Category & Sub-Category(Combined) field to Rows shelf**

If required adjust the width of the column to accommodate the Header of combined field

The screenshot displays the Tableau Desktop interface. On the left, the 'Data' pane shows the 'Orders (Sample - Superstore\_2021)' data source. The 'Tables' section lists various fields, including 'Category' and 'Sub-Category'. The 'Columns' shelf is empty, and the 'Rows' shelf contains the 'Category & Sub-Cat..' field. The 'Marks' shelf is set to 'Automatic'. The main view shows a table titled 'Combined Field and Calculated Field' with a header 'Category & Sub-Category (Combined)' and a list of product categories and their corresponding values.

Combined Field and Calculated Field	
Category & Sub-Category (Combined)	
Furniture, Bookcases	Abc
Furniture, Chairs	Abc
Furniture, Furnishings	Abc
Furniture, Tables	Abc
Office Supplies, Appliances	Abc
Office Supplies, Art	Abc
Office Supplies, Binders	Abc
Office Supplies, Envelopes	Abc
Office Supplies, Fasteners	Abc
Office Supplies, Labels	Abc
Office Supplies, Paper	Abc
Office Supplies, Storage	Abc
Office Supplies, Supplies	Abc
Technology, Accessories	Abc
Technology, Copiers	Abc
Technology, Machines	Abc
Technology, Phones	Abc

# STEPS TO CREATE A COMBINED FIELD

## Step 6: Drag Sales to the view

Pages

Filters

Marks

Columns

Rows

Category & Sub-Cat..

### Combined Field and Calculated Field

Category & Sub-Category (Combined)

Furniture, Bookcases	114,880
Furniture, Chairs	328,449
Furniture, Furnishings	91,705
Furniture, Tables	206,966
Office Supplies, Appliances	107,532
Office Supplies, Art	27,119
Office Supplies, Binders	203,413
Office Supplies, Envelopes	16,476
Office Supplies, Fasteners	3,024
Office Supplies, Labels	12,486
Office Supplies, Paper	78,479
Office Supplies, Storage	223,844
Office Supplies, Supplies	46,674
Technology, Accessories	167,380
Technology, Copiers	149,528
Technology, Machines	189,239
Technology, Phones	330,007

Automatic

Color

Size

Text

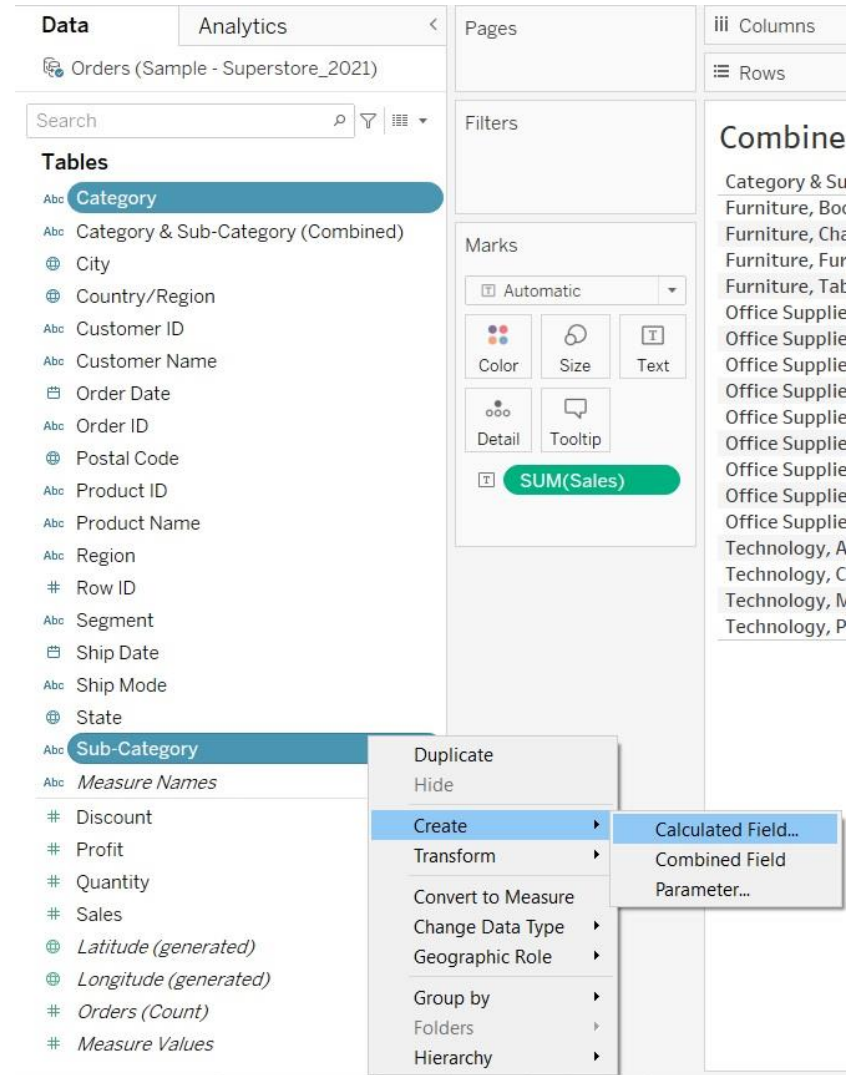
Detail

Tooltip

SUM(Sales)

# STEPS TO CREATE A CALCULATED FIELD

**Step 1:** Select multiple dimensions in the **Data** pane and then **right-click** (control-click on a Mac) **the fields** and select **Create > Calculated Field**





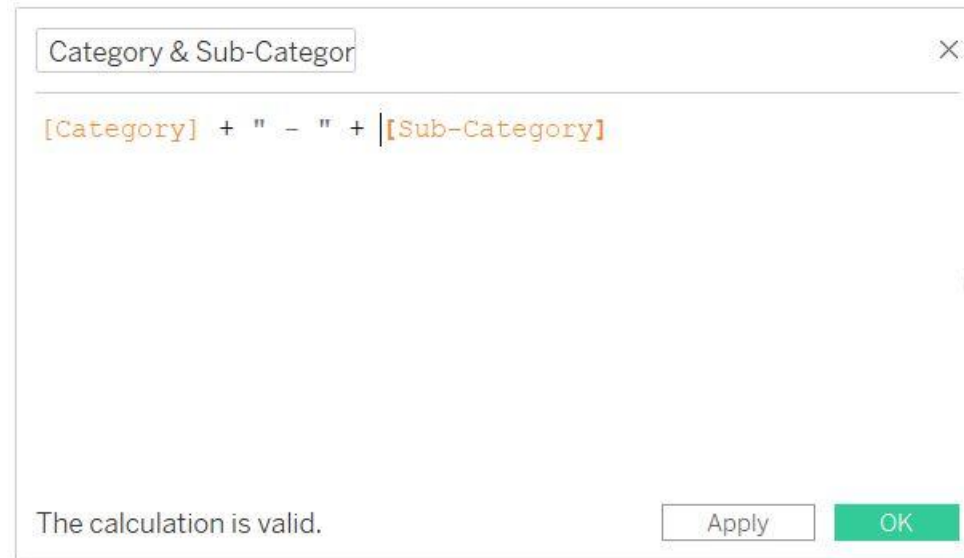
# STEPS TO CREATE A CALCULATED FIELD

**Step 2:** Enter the name for field as **Category & Sub-Category (Calculated)**

Enter the required formula for string concatenation

Confirm that “**The calculation is valid**” is visible

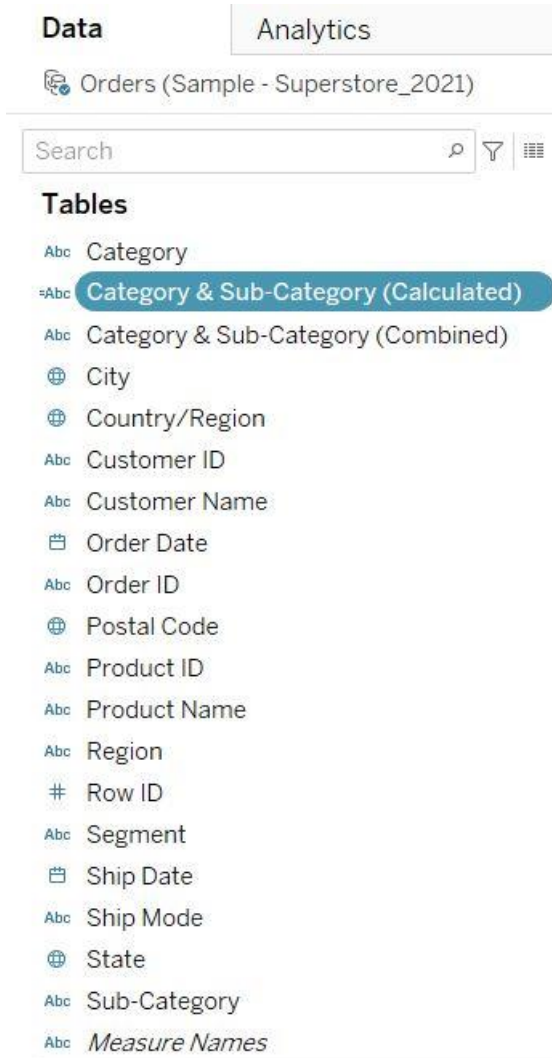
Once finished click **OK**



A screenshot of a software dialog box titled "Category & Sub-Categor". The dialog box has a close button (X) in the top right corner. The main area contains the formula `[Category] + " - " + [Sub-Category]`. At the bottom left, it displays the message "The calculation is valid." At the bottom right, there are two buttons: "Apply" and "OK". The "OK" button is highlighted in green.

# STEPS TO CREATE A CALCULATED FIELD

**Step 3:** The **Calculated Field** will now be present in the **Data** pane



# STEPS TO CREATE A CALCULATED FIELD

## Step 4: Drag **Category & Sub-Category(Calculated)** field to **Rows** shelf

**Data** | Analytics | Pages

Orders (Sample - Superstore\_2021)

Search

**Tables**

- Category
- Category & Sub-Category (Calculated)
- Category & Sub-Category (Combined)
- City
- Country/Region
- Customer ID
- Customer Name
- Order Date
- Order ID
- Postal Code
- Product ID
- Product Name
- Region
- Row ID
- Segment
- Ship Date
- Ship Mode
- State
- Sub-Category
- Measure Names

**Measure Values**

- Discount
- Profit
- Quantity
- Sales
- Latitude (generated)
- Longitude (generated)
- Orders (Count)
- Measure Values

**Columns**

Category & Sub-Cat.. | Category & Sub-Cat..

**Rows**

**Marks**

Automatic

Color | Size | Text

Detail | Tooltip

SUM(Sales)

**Combined Field and Calculated Field**

Category & Sub-Category (Combined)	Category & Sub-Category (Calculated)	
Furniture, Bookcases	Furniture - Bookcases	114,880
Furniture, Chairs	Furniture - Chairs	328,449
Furniture, Furnishings	Furniture - Furnishings	91,705
Furniture, Tables	Furniture - Tables	206,966
Office Supplies, Appliances	Office Supplies - Appliances	107,532
Office Supplies, Art	Office Supplies - Art	27,119
Office Supplies, Binders	Office Supplies - Binders	203,413
Office Supplies, Envelopes	Office Supplies - Envelopes	16,476
Office Supplies, Fasteners	Office Supplies - Fasteners	3,024
Office Supplies, Labels	Office Supplies - Labels	12,486
Office Supplies, Paper	Office Supplies - Paper	78,479
Office Supplies, Storage	Office Supplies - Storage	223,844
Office Supplies, Supplies	Office Supplies - Supplies	46,674
Technology, Accessories	Technology - Accessories	167,380
Technology, Copiers	Technology - Copiers	149,528
Technology, Machines	Technology - Machines	189,239
Technology, Phones	Technology - Phones	330,007

# STEPS TO CREATE A CALCULATED FIELD

**Step 5:** If required we can also drag **Profit** to the view

Pages

Filters

Marks

Measure Values

Columns

Measure Names

Rows

Category & Sub-Cat..

Category & Sub-Cat..

Combined Field and Calculated Field

Category & Sub-Category (Combined)	Category & Sub-Category (Calculated)	Sales	Profit
Furniture, Bookcases	Furniture - Bookcases	114,880	-3,473
Furniture, Chairs	Furniture - Chairs	328,449	26,590
Furniture, Furnishings	Furniture - Furnishings	91,705	13,059
Furniture, Tables	Furniture - Tables	206,966	-17,725
Office Supplies, Appliances	Office Supplies - Appliances	107,532	18,138
Office Supplies, Art	Office Supplies - Art	27,119	6,528
Office Supplies, Binders	Office Supplies - Binders	203,413	30,222
Office Supplies, Envelopes	Office Supplies - Envelopes	16,476	6,964
Office Supplies, Fasteners	Office Supplies - Fasteners	3,024	950
Office Supplies, Labels	Office Supplies - Labels	12,486	5,546
Office Supplies, Paper	Office Supplies - Paper	78,479	34,054
Office Supplies, Storage	Office Supplies - Storage	223,844	21,279
Office Supplies, Supplies	Office Supplies - Supplies	46,674	-1,189
Technology, Accessories	Technology - Accessories	167,380	41,937
Technology, Copiers	Technology - Copiers	149,528	55,618
Technology, Machines	Technology - Machines	189,239	3,385
Technology, Phones	Technology - Phones	330,007	44,516