

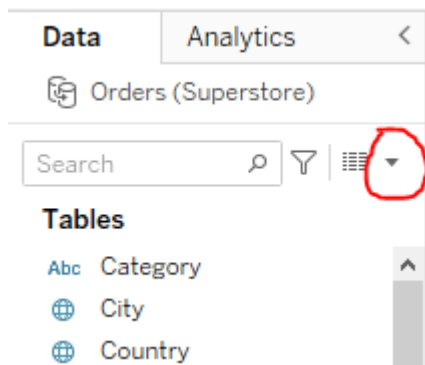
CSCE 5320 Scientific Data Visualization

Interactions

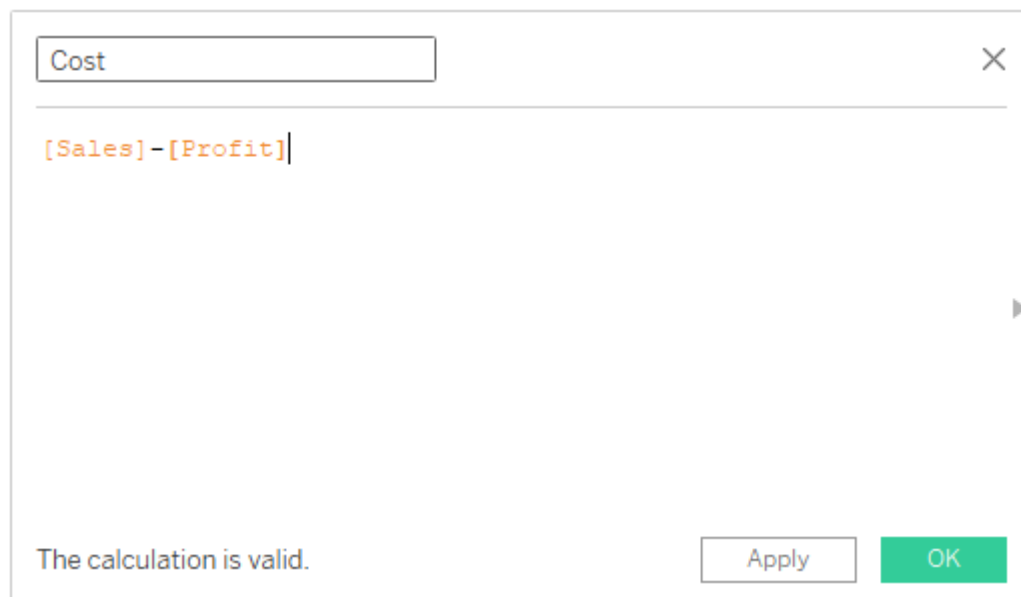
Tutorial

Use Total Sales and profit to calculate cost per sale (Step1 - 3)

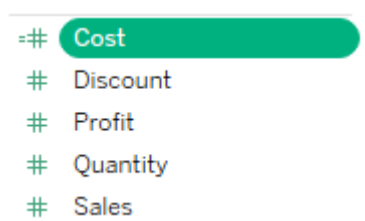
Create a calculated field:



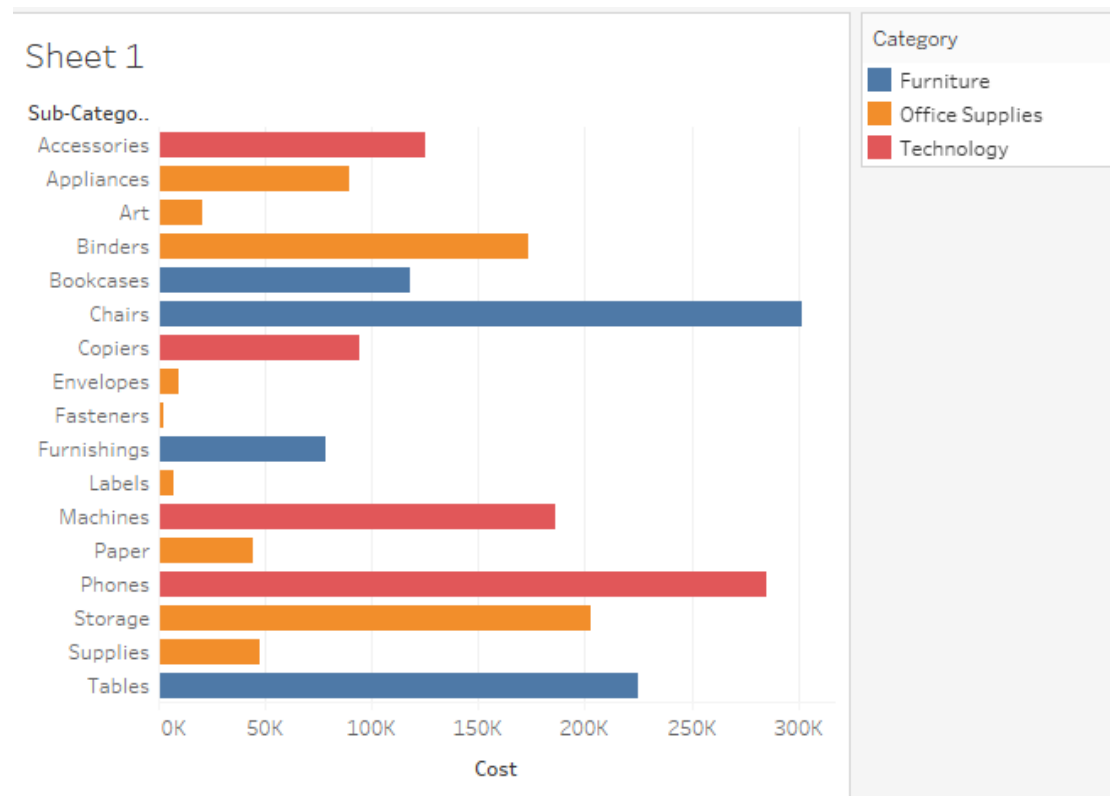
Rename the calculate field and apply function:



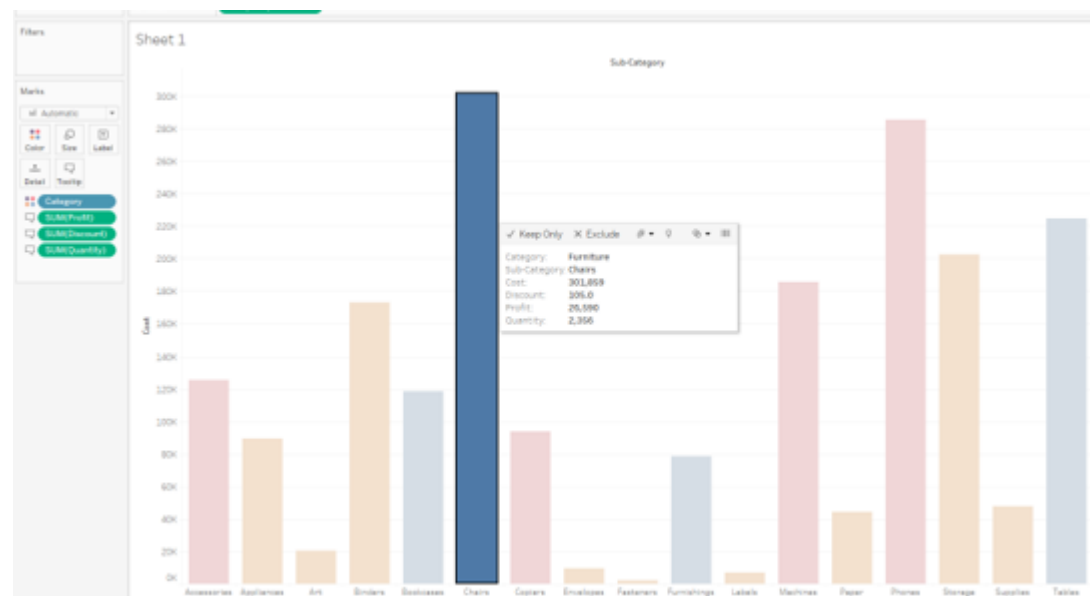
Get a new measure called 'cost':



Analyze the given attributes from visualization and give explanation based on your understanding



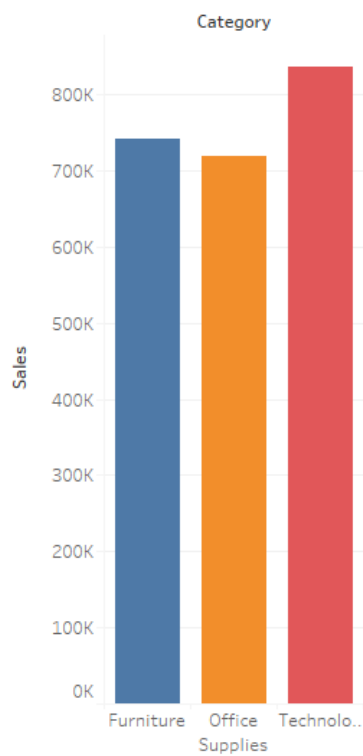
Interactivity with text and visual tooltips (step 4)



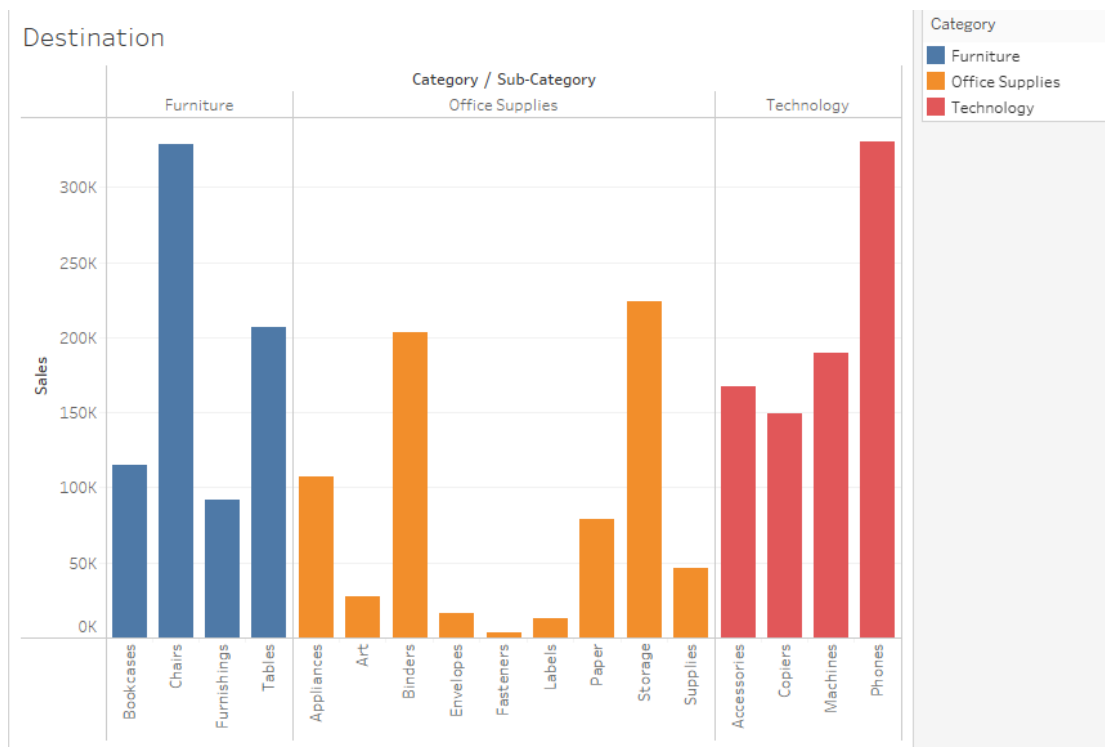
Interactivity with actions (filter, highlight, URL)

Create the source sheet and destination sheet (step 5):

Source



Destination



Add Actions, select filter (step 6)

Actions



Actions let you create interactive relationships between data, dashboard objects, other workbook sheets, and the web.

Name	Run On	Source	Fields

Add Action >

Edit...

Remove

☐ Show actions for all sheets in this workbook

OK

Cancel

Add Filter Action



Name: Sales1

Source Sheets

☐ Orders (Superstore)

☐ Destination

☒ Source

Run action on:

☐ Hover

☒ Select

☐ Menu

☐ Single-select only

Target Sheets

☒ Destination

Clearing the selection will:

☐ Keep filtered values

☒ Show all values

☐ Exclude all values

Target Filters

☐ Selected Fields

☒ All Fields

Source Field	Target Field	Target Data Source

Add Filter...

Edit...

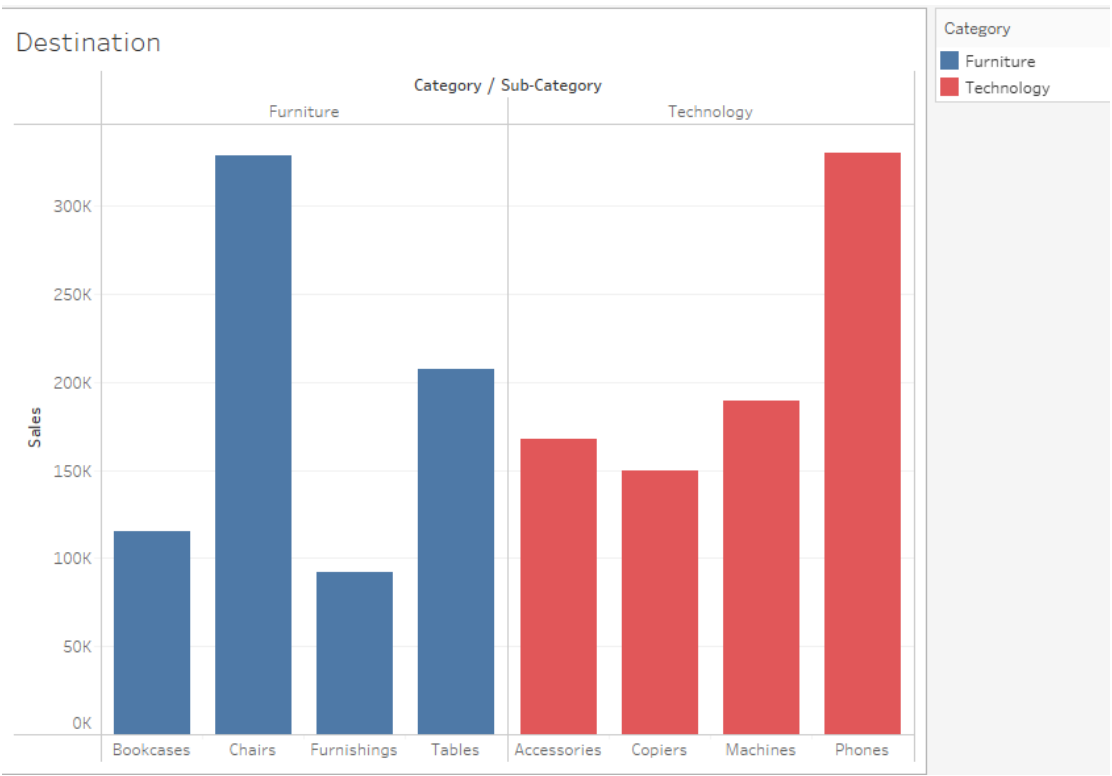
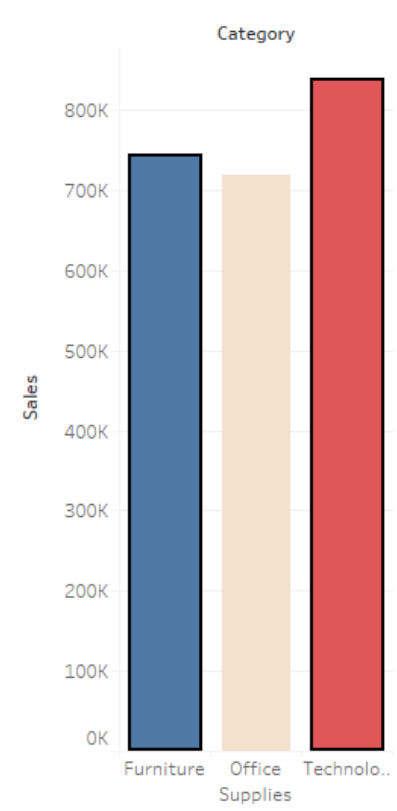
Remove

OK

Cancel

Step 7:

Source



Action with highlight (step8)

The screenshot shows the 'Edit Highlight Action' dialog box. At the top, the title bar reads 'Edit Highlight Action' with a close button (X). Below the title bar, there is a 'Name:' field containing 'Highlight1'. The main area is divided into three sections: 'Source Sheets', 'Target Sheets', and 'Target Highlighting'. In the 'Source Sheets' section, a dropdown menu shows 'Source' and a list box is empty. To the right, under 'Run action on:', there are three buttons: 'Hover' (disabled), 'Select' (active), and 'Menu' (disabled). The 'Target Sheets' section has a dropdown menu showing 'Destination' and an empty list box. The 'Target Highlighting' section has three radio buttons: 'Selected Fields', 'Dates and Times', and 'All Fields' (selected). To the right of these radio buttons is a list box containing 'Category' and 'Region'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Dialog box titled "Edit Highlight Action" with a close button (X).

Name:

Source Sheets

Run action on:

Target Sheets

Target Highlighting

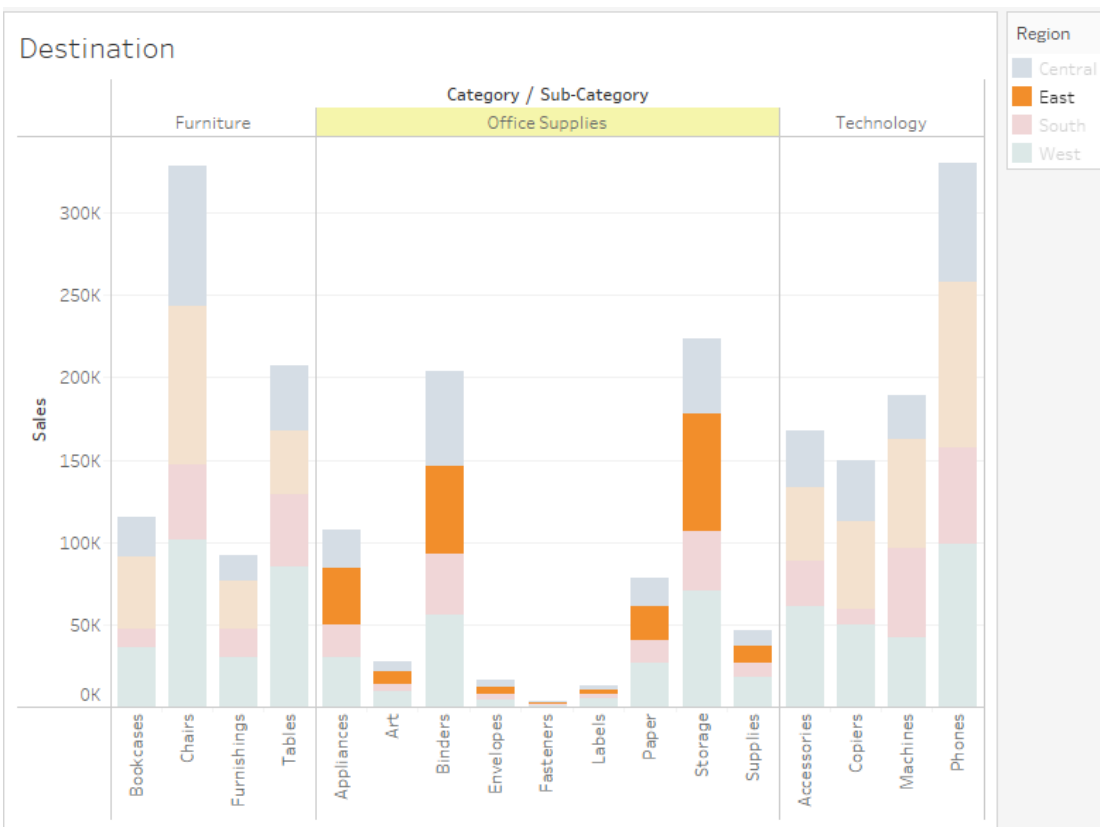
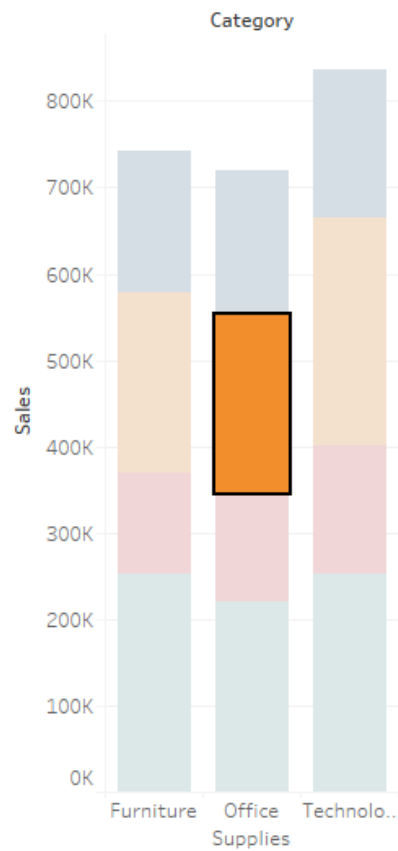
☐ Selected Fields ☐ Category

☐ Dates and Times ☐ Region

☒ All Fields

After you apply the highlight action, you select one part in the source sheet, it will highlight all related parts in the destination sheet. For example:

Source



Add actions to the dashboard, the two sheet on the dashboard should be interactive (Step 9):

Edit Highlight Action

×

Name: Dashboard Actions

▶

Source Sheets

Dashboard 1

▼

☐ Destination

☒ Source

Run action on:

Hover

Select

Menu

Target Sheets

Dashboard 1

▼

☒ Destination

☐ Source

Target Highlighting

☐ Selected Fields

☐ Dates and Times

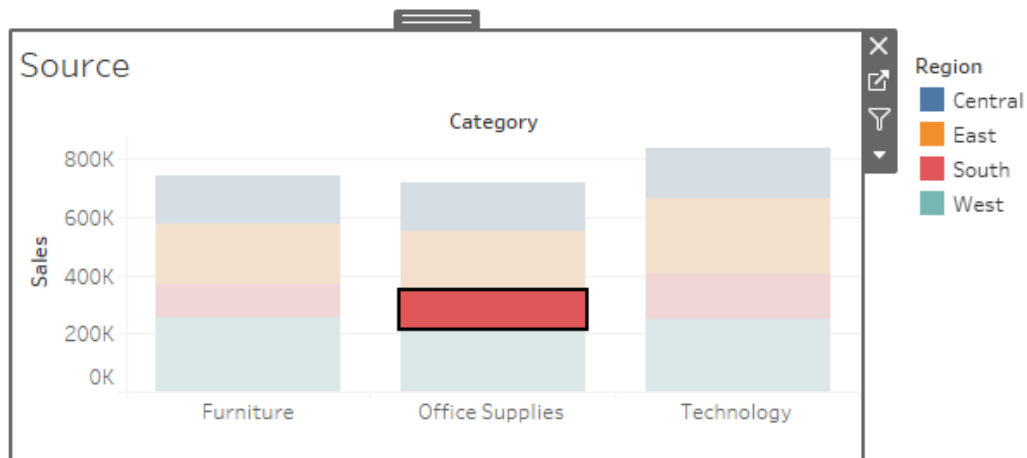
☒ All Fields

☐ Category

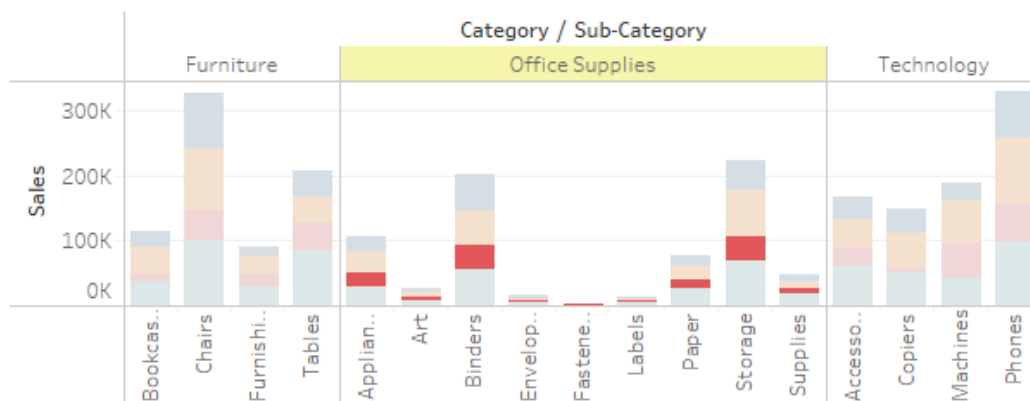
☐ Region

OK

Cancel

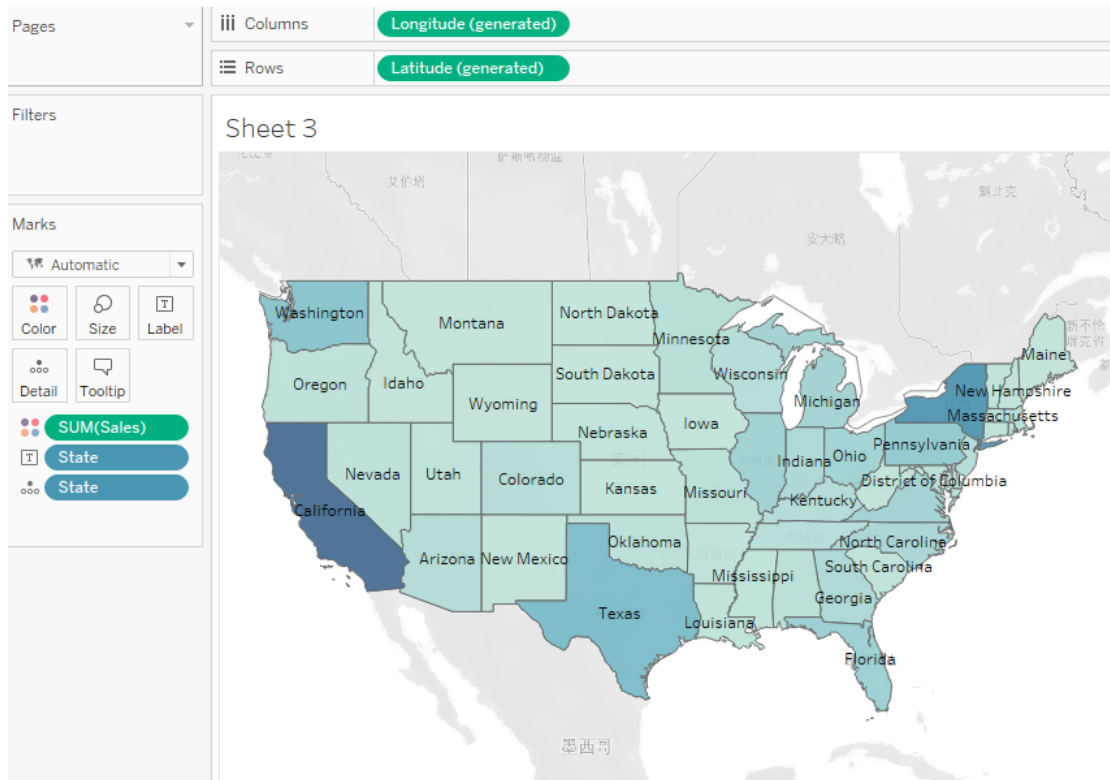


Destination



Interactivity with actions- URL (step 10)

Create a new worksheet and apply URL actions to the worksheet. Choose State Sale as the source sheet and add the URL, select <state> to the end of URL.



Edit URL Action

Name: StateInfo

Source Sheets

Orders (Superstore)

Run action on:

Destination

Source

StateSale

Hover

Select

Menu

URL

<https://en.wikipedia.org/wiki/<State>>

Test Link

https://en.wikipedia.org/wiki/<State>

URL Encode Data Values

Allow Multiple Values

Item Delimiter: ,

Delimiter Escape: \

URL Target

New Browser Tab

Web Page Object

Browser Tab if No Web Page Object Exists

OK

Cancel

