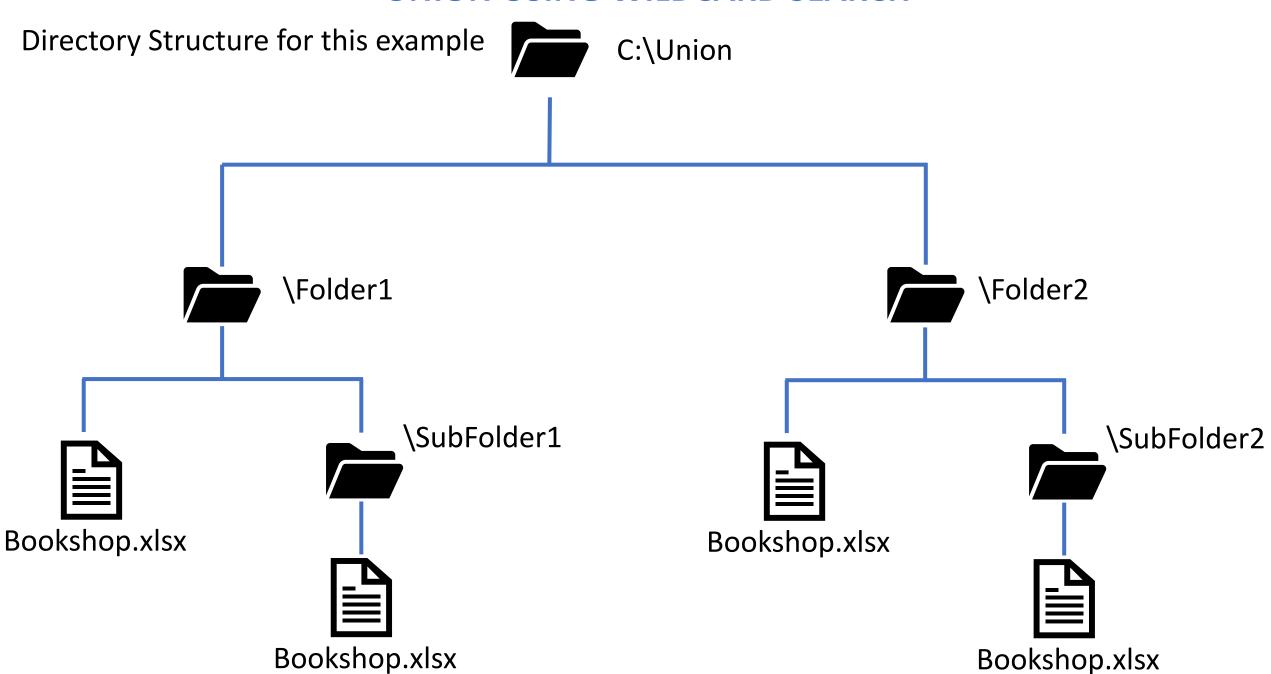
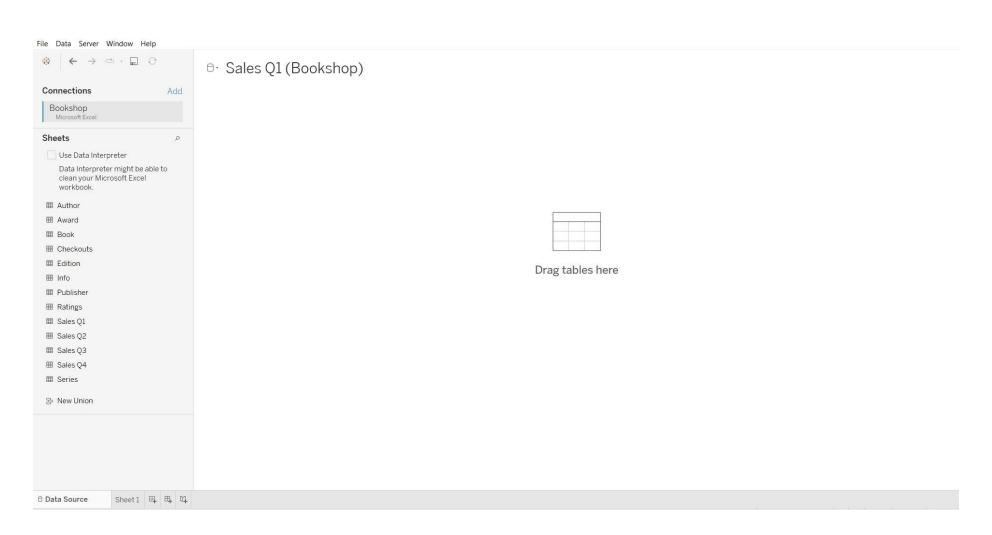
This method is used to set up search criteria to automatically include tables in the union. Use the wildcard character, which is an asterisk (*), to match a sequence or pattern of characters in the Excel workbook and worksheet names, Google Sheets workbook and worksheet names, text file names, JSON file names, .pdf file names, and database table names.

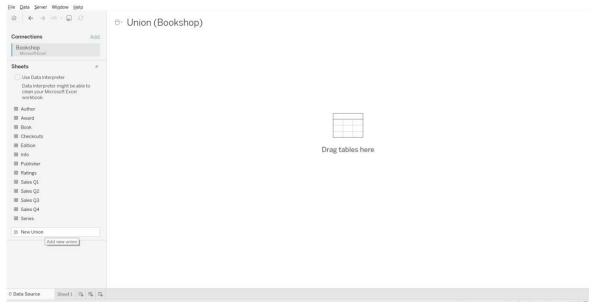
When working with Excel, text file data, JSON file, .pdf file data, we can also use this method to union files across folders, and worksheets across workbooks. Search is scoped to the selected connection. The connection and the tables available in a connection are shown on the left pane of the Data source page.

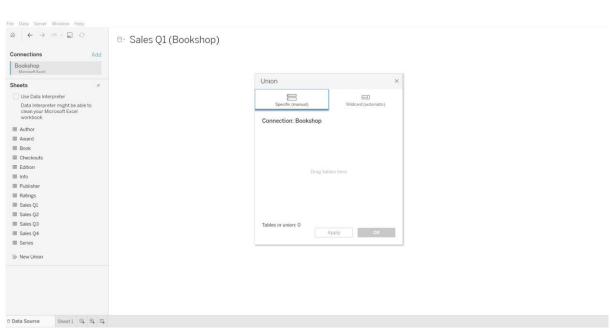


Step 1: Connect to the data source **Bookshop.xlsx**

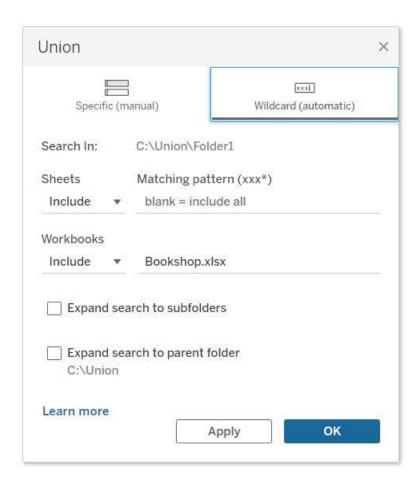


Step 2: On the Data Source page, double-click New Union to set up the union





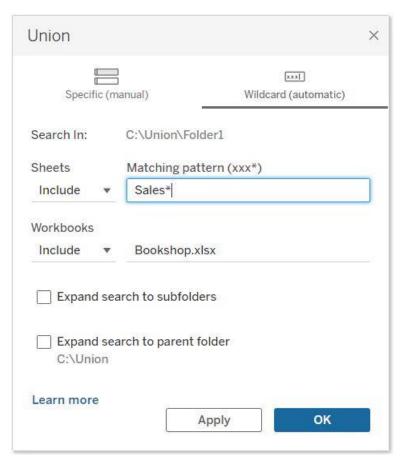
Step 3: Click Wildcard (automatic) in the Union dialog box



Step 4: Enter the search criteria that we want Tableau to use to find tables to include in the union

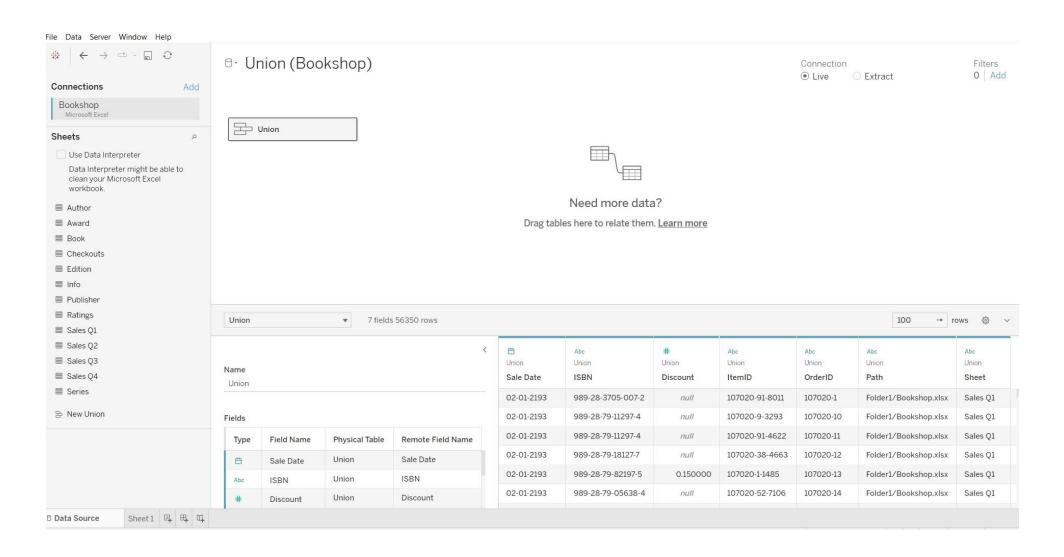
For example, we can enter Sales*in the Include text box to union tables in Excel worksheets that have "Sales*" in their names

Click on Apply or OK to union

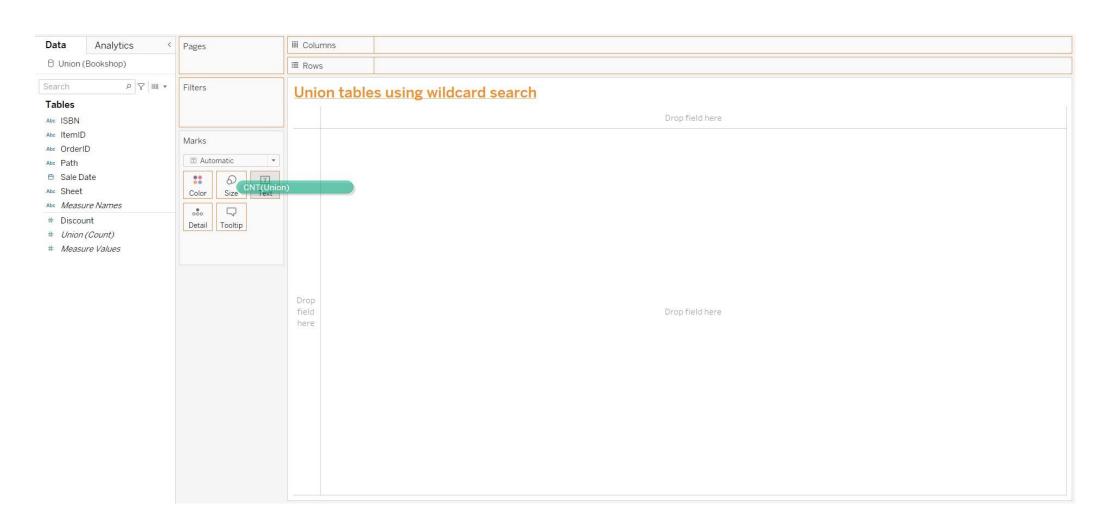


Search criteria like this will result in the union of Sales Q1, Sales Q2, Sales Q3 and Sales Q4 (Excel worksheets), from the selected connection. In this case the connection made to the Excel workbook (Bookshop.xlsx) containing the worksheets we wanted was in the Folder1 folder in the Union directory (e.g., C:\Union\Folder1)

Step 5: The **Union** is created

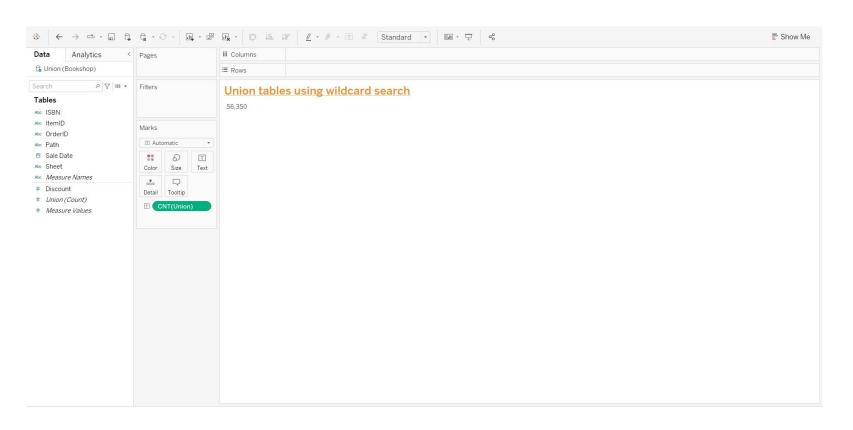


Step 6: Go to Sheet 1 and drag & drop Union(Count) to Text on Marks card



Step 7: The total number of rows in all Sales Q1, Sales Q2, Sales Q3 and Sales Q4 is the **CNT(Union)** i.e., 56,350

This confirms that the **Union** was created correctly



The CNT(Union) value was validated separately

CNT of Sales Q1: 7,785

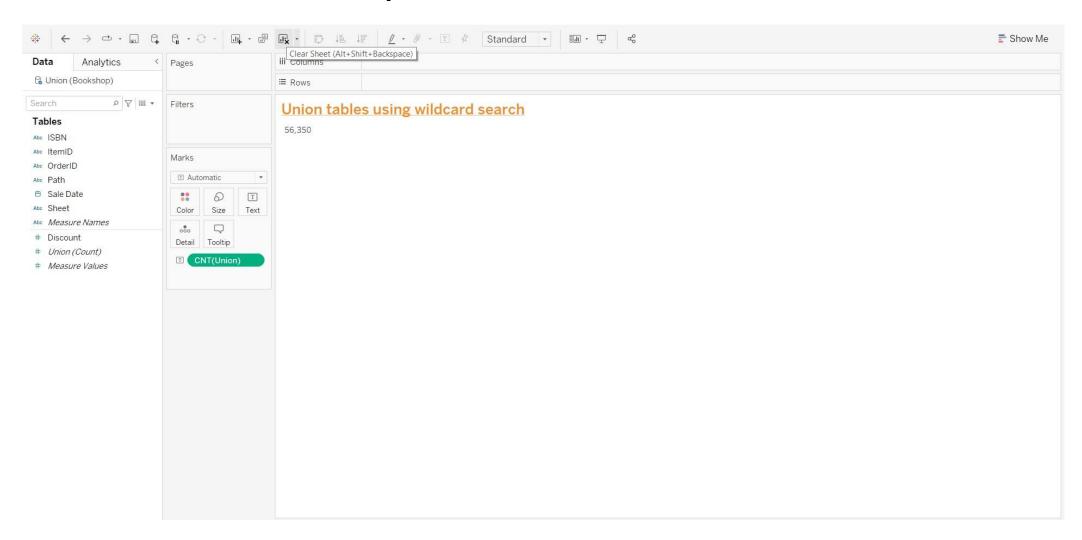
CNT of Sales Q2: 13,354

CNT of Sales Q3: 22,118

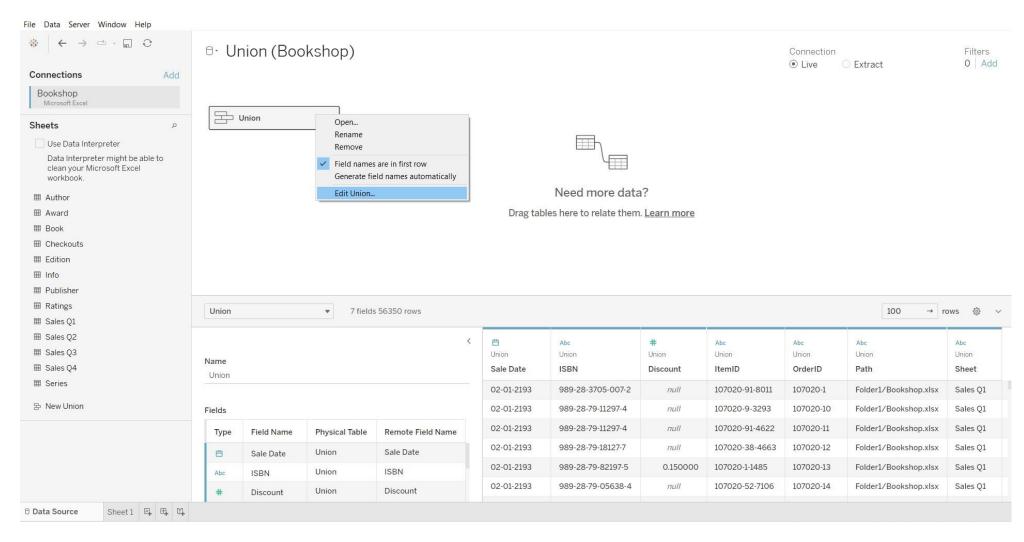
CNT of Sales Q3: 13,093

Total of CNT: 56,350

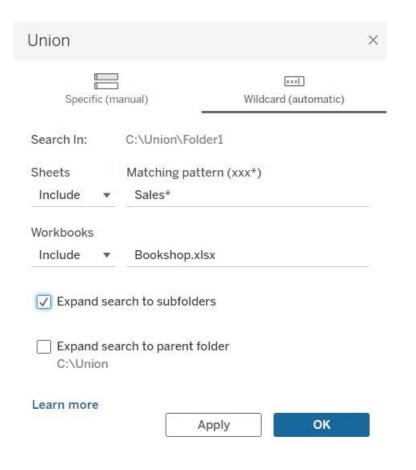
Step 8: Click on Clear Sheet



Step 9: Go to the **Data Source** page Right-click on **Union**, Click on **Edit Union**



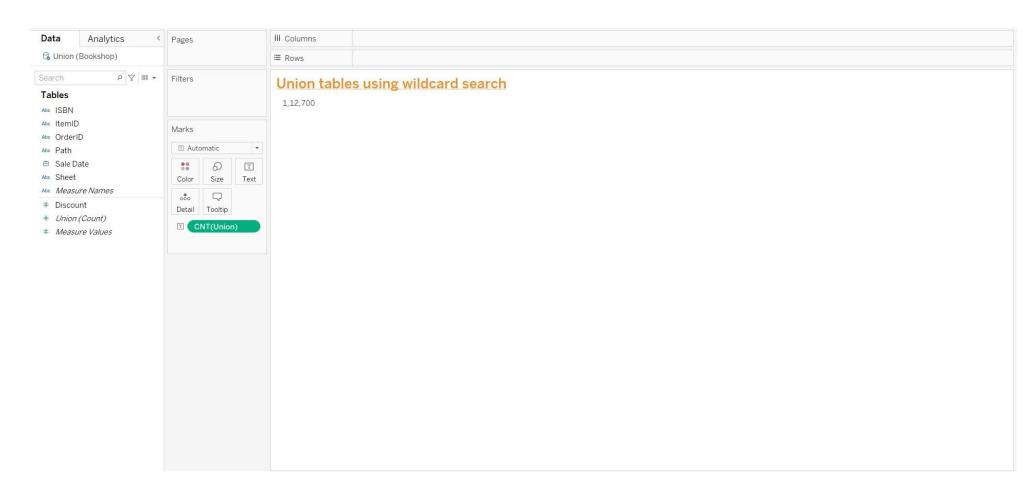
Step 10: Select the checkbox for **Expand search to subfolders**Click on **Apply** or **OK** to union



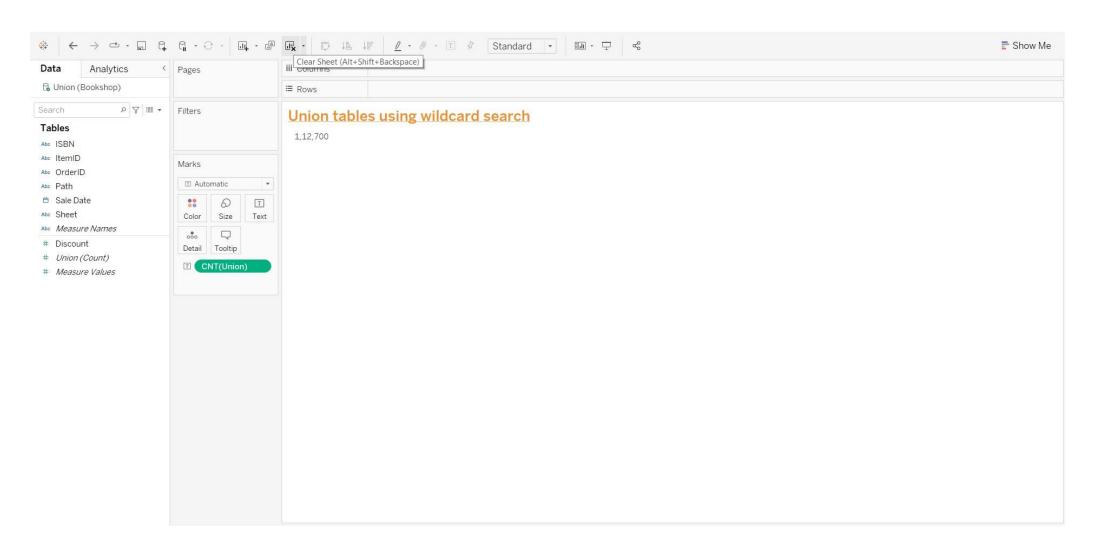
Include: Looks for all Excel worksheets that have "Sales*" in their names inside the current folder i.e., Folder1

Expand search to subfolders: Looks for additional Excel worksheets that have "Sales*" in their names that are in Excel workbooks in subfolders of the "Folder1" folder i.e., SubFolder1.

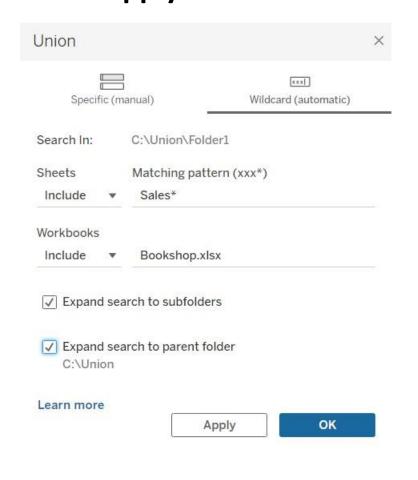
Step 11: Go to Sheet 1 and drag & drop **Union(Count)** to **Text** on **Marks** card Now the **CNT(Union)** has doubled 1,12,700 since we are including the files in the sub-folders too



Step 12: Click on Clear Sheet



Step 13: Go to the Data Source page
Right-click on Union, Click on Edit Union
Select checkbox for Expand search to parent folder
Click on Apply or OK to union



Include: Looks for all Excel worksheets that have "Sales*" in their names inside the current folder i.e., Folder1

Expand search to parent folder: Looks for additional Excel worksheets that have "Sales*" in their names that are in parallel folders of the "Folder1" folder. In this example, "Folder2" is the parallel folder.

Expand search to subfolders: Looks for additional Excel worksheets that have "Sales*" in their names that are in Excel workbooks in all folders and Sub-folders applicable

Step 14: Go to Sheet 1 and drag & drop **Union(Count)** to **Text** on **Marks** card Now the **CNT(Union)** has increased to 2,25,400 since we are including the files in the sub-folders and the files in parent directory

