

Lesson 05 Demo 01

Relationship in Tableau

Objective: To demonstrate the process of establishing relationships between tables to enrich and consolidate the data for comprehensive analysis

Tools required: Tableau Desktop

Prerequisites: None

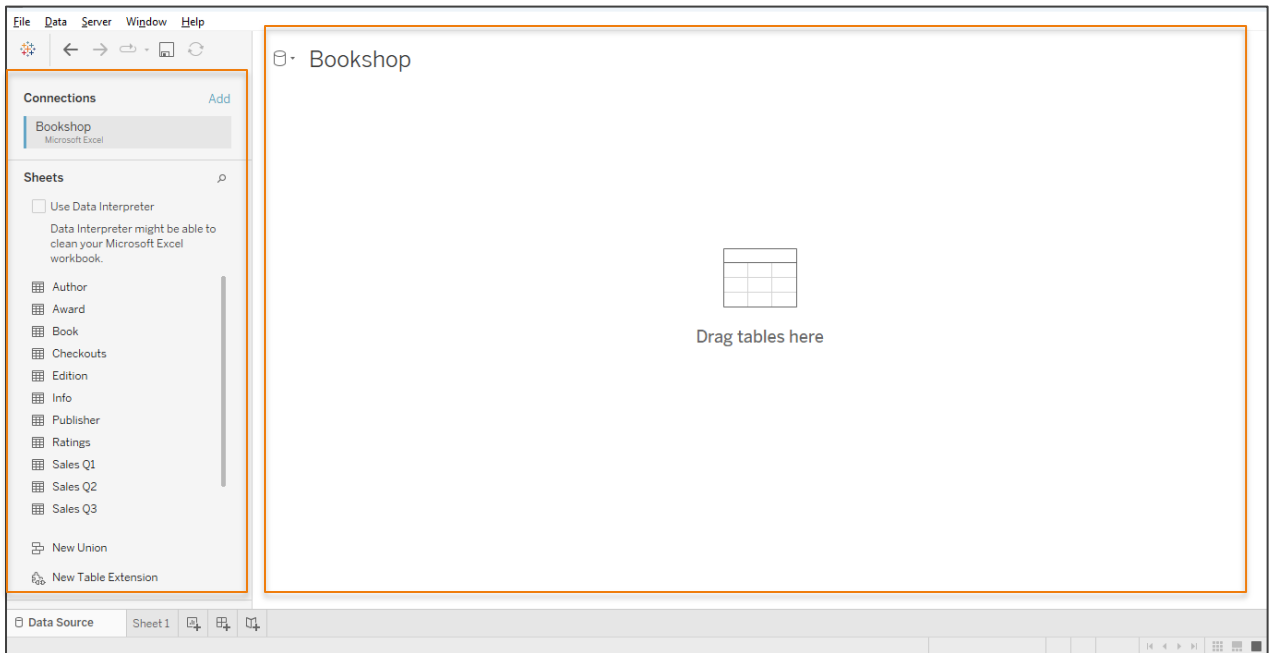
Note: Download the Bookshop dataset from the Resource Material of the LMS.

Steps to be followed:

1. Import the dataset
2. Create a relationship between the book table and the info table

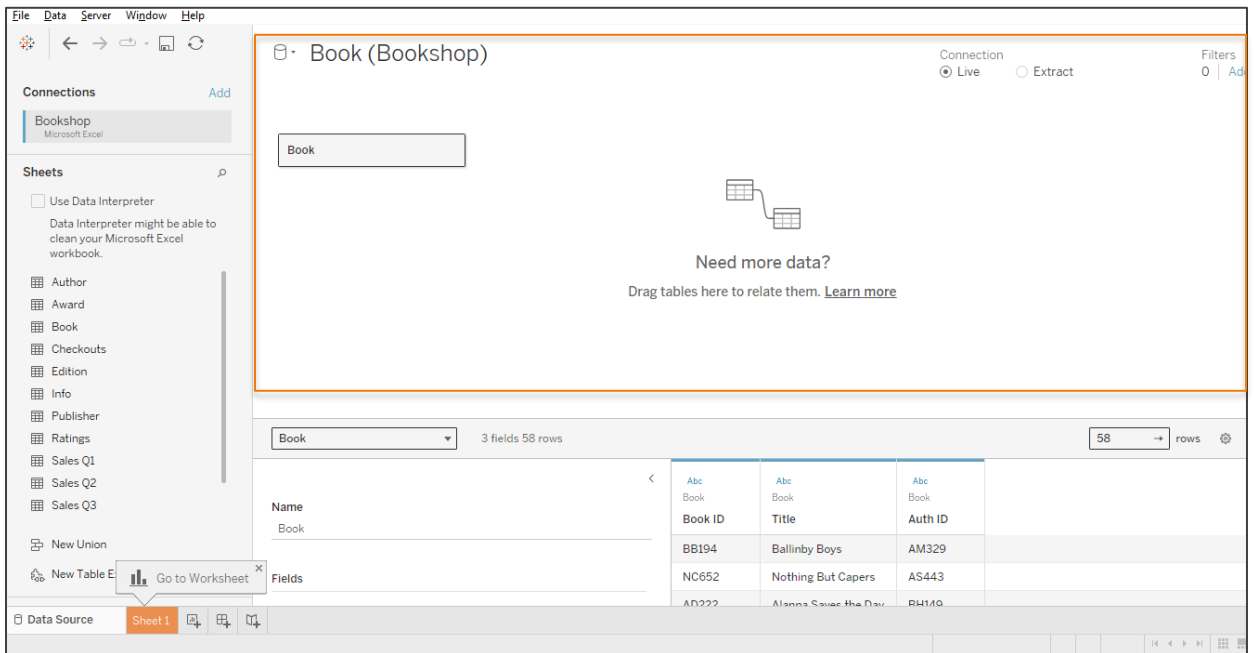
Step 1: Import the dataset

- 1.1 Open a new Tableau file and connect with the **Bookshop** dataset. The Data Source view will appear as below:



Note: All the tables are listed on the **Connections** pane (on the left). The white canvas on the Data Source view is called the data model section.

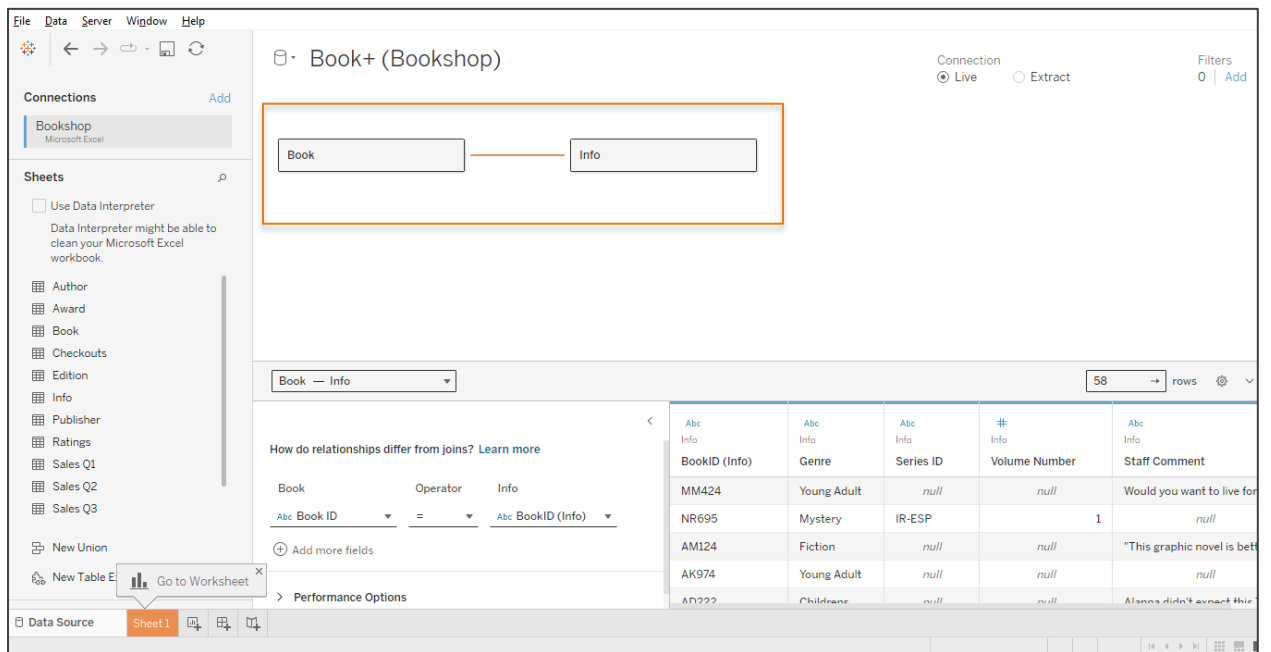
1.2 Drag the **Book** table into the data model. The logical layer gets activated as you drag a table into the data model section.



Step 2: Create a relationship between the Book table and the Info table

- 2.1 Now, drag the **Info** table into the logical layer. A relationship will be automatically created between the two tables. The logical relationship between the book table created in the logical layer and the info table is shown below:

Note: As you move the info table into the logical layer, you will notice that an orange string referred to as a **noodle** links it to the book table.



The screenshot shows the Power BI Desktop interface with the 'Book+ (Bookshop)' model. The 'Book' table is connected to the 'Info' table via a relationship line. The relationship is named 'Book - Info'. The 'Info' table is highlighted with an orange box. The relationship is named 'Book - Info'.

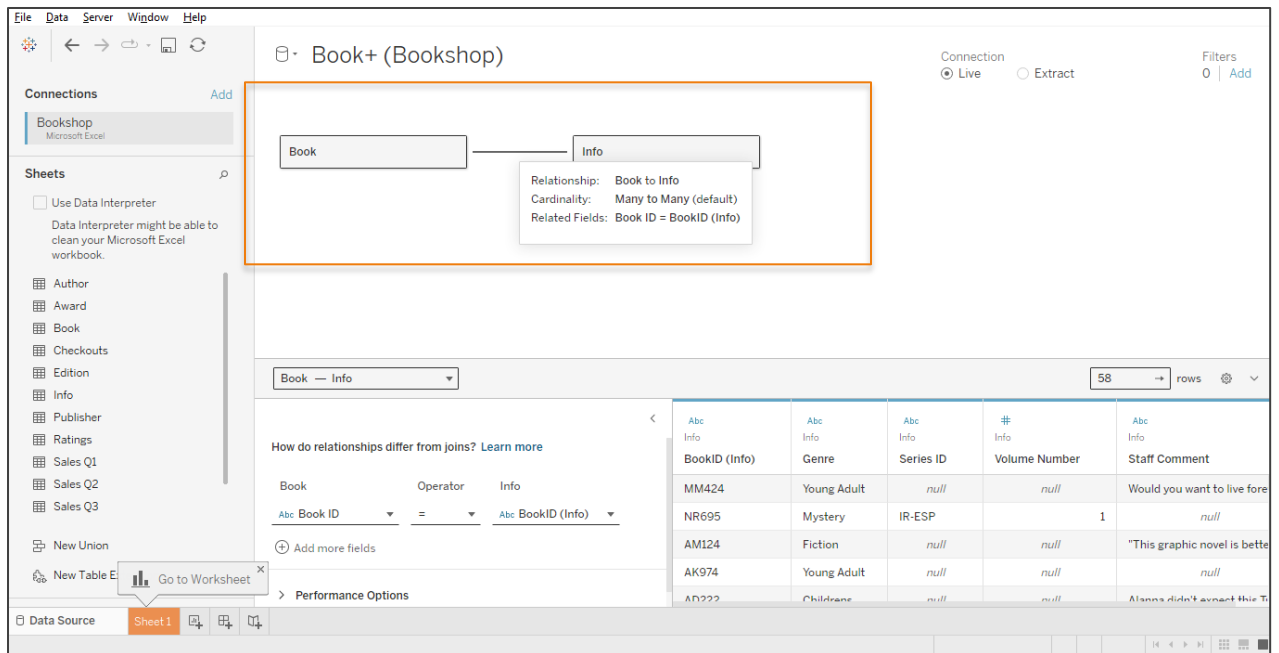
How do relationships differ from joins? [Learn more](#)

Book	Operator	Info
Abc Book ID	=	Abc BookID (Info)

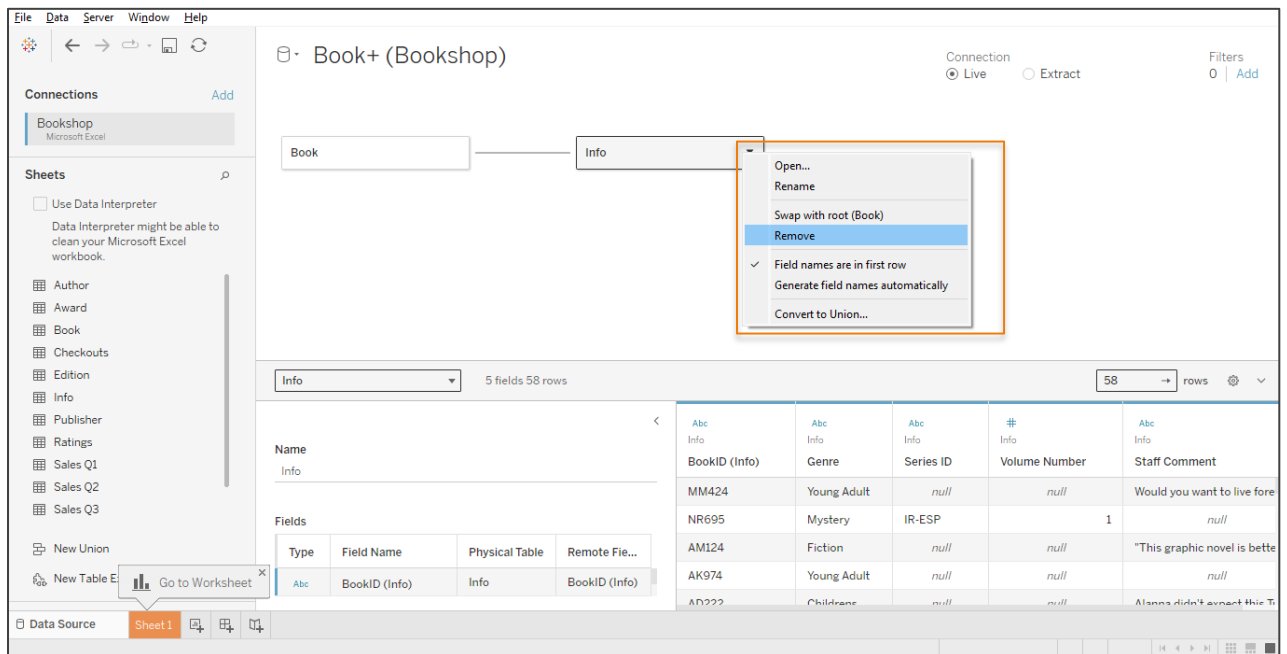
Performance Options

Abc Info BookID (Info)	Abc Info Genre	Abc Info Series ID	# Info Volume Number	Abc Info Staff Comment
MM424	Young Adult	null	null	Would you want to live for
NR695	Mystery	IR-ESP	1	null
AM124	Fiction	null	null	"This graphic novel is bett
AK974	Young Adult	null	null	null
AD222	Childrens	null	null	Alanna didn't expect this

- 2.2 Hover the cursor on the noodle to learn more details about the relationship



2.3 Remove the relationship between the **Book** table and the **Info** table by clicking the dropdown



With these steps, you can effectively connect and consolidate data in Tableau, enabling comprehensive analysis through relationships between tables.