### **UNDERSTANDING UNIONS**

We can **union** data sources to combine two or more tables by **appending** values (rows) from one table to another.

To **union** the data in Tableau data source, the tables must come from the same connection.

Though union is not a type of join, union is another method for combining two or more tables by appending rows of data from one table to another.

## **UNDERSTANDING UNIONS**

For best results, the tables that we combine using a union must have the same structure. That is, each table must have the same number of fields, and related fields must have matching field names and data types

Thus, Joins adds additional columns while Unions adds additional rows to the resulting data.

For example, suppose we have the following sales information stored in four tables, separated by Year. The table names are "2016" "2017", "2018" and "2019" A union of these tables creates the following single table that contains all rows from all the separate tables.

# **DETAILS OF THE DATA SOURCE USED FOR UNIONS**

We will be using the below mentioned fictious spreadsheet having 4 tables

### **2007 Table**

Team	Venue	Runs
India	Sabina Park	3500
Sri Lanka	Queen's Park Oval	2700
West Indies	Kensington Oval Cricket Ground	1760
Australia	Sabina Park	4500

### **2011 Table**

Team	Venue	Runs
India	Eden Garden	5600
Sri Lanka	Eden Garden	3000
West Indies	Wankhede Stadium	2345
Australia	Wankhede Stadium	1900

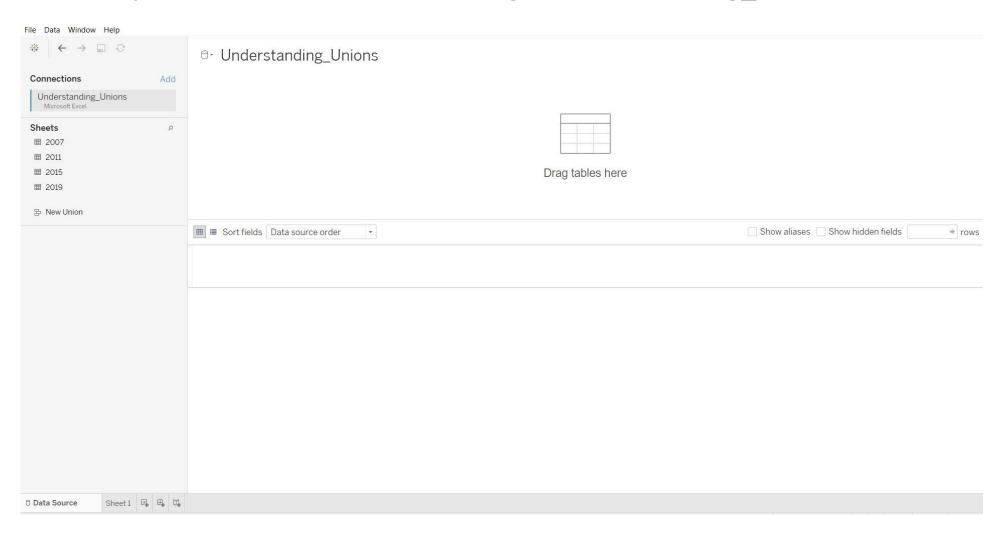
#### **2015** Table

Team	Venue	Runs
India	The Gabba	3567
Sri Lanka	The Gabba	2367
West Indies	Melbourne Cricket Ground	1904
Australia	Melbourne Cricket Ground	3000

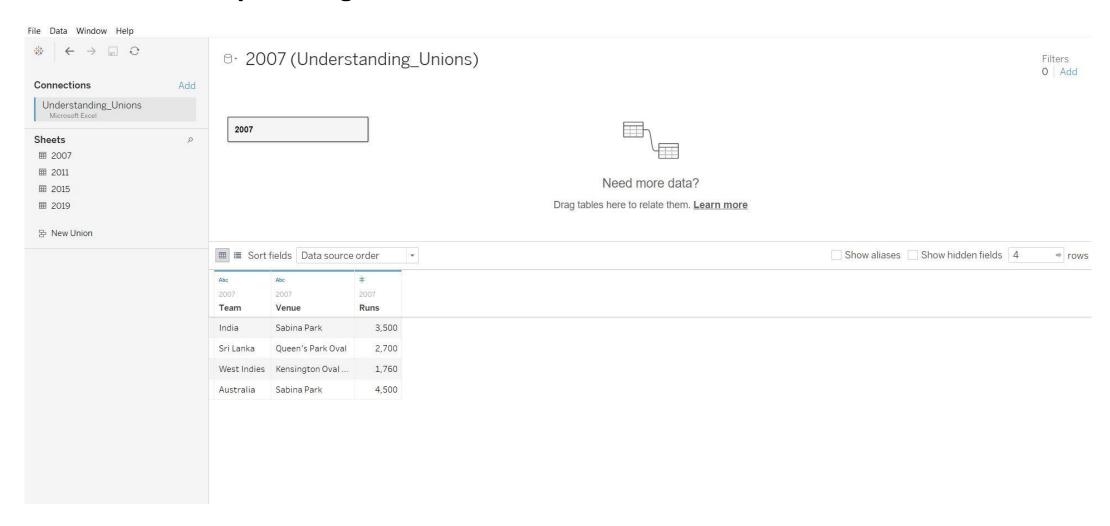
#### **2019 Table**

Team	Venue	Runs
India	Edgbaston	2456
Sri Lanka	Lords	1900
West Indies	Edgbaston	4000
Australia	Lords	2367

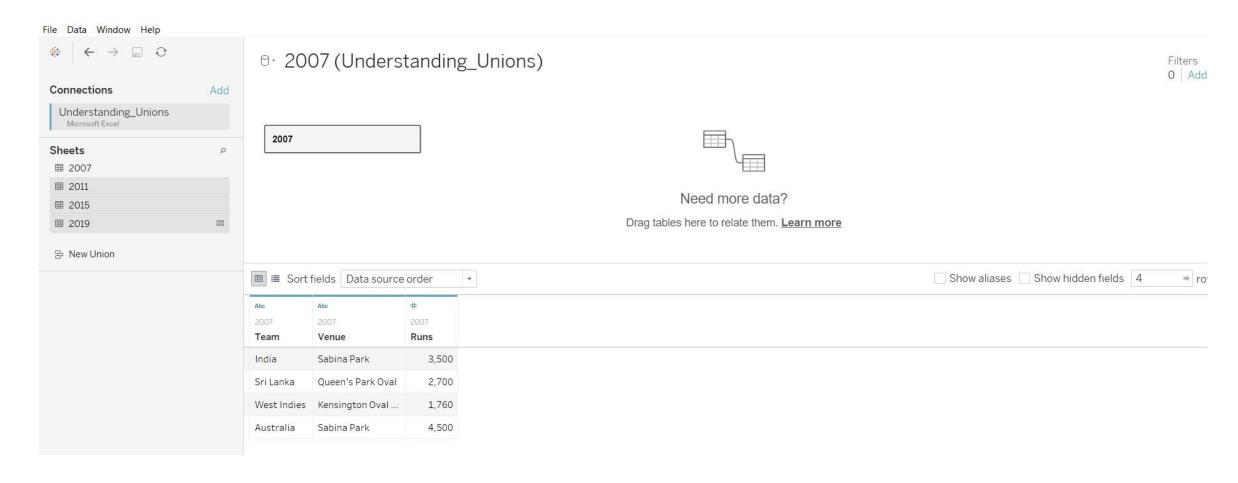
**Step 1:** Connect to the source e.g.: **Understanding\_Unions.xlsx** 



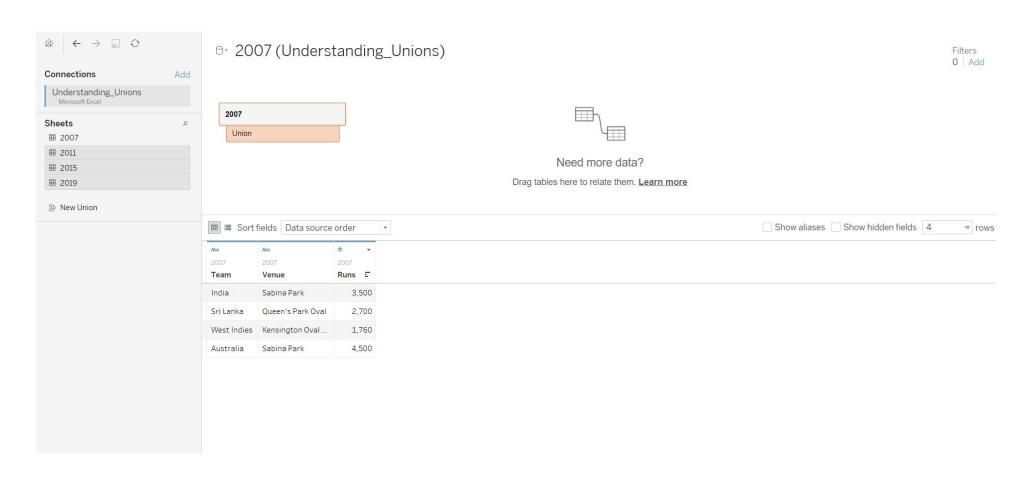
Step 2: Drag the first table 2007 to the canvas area



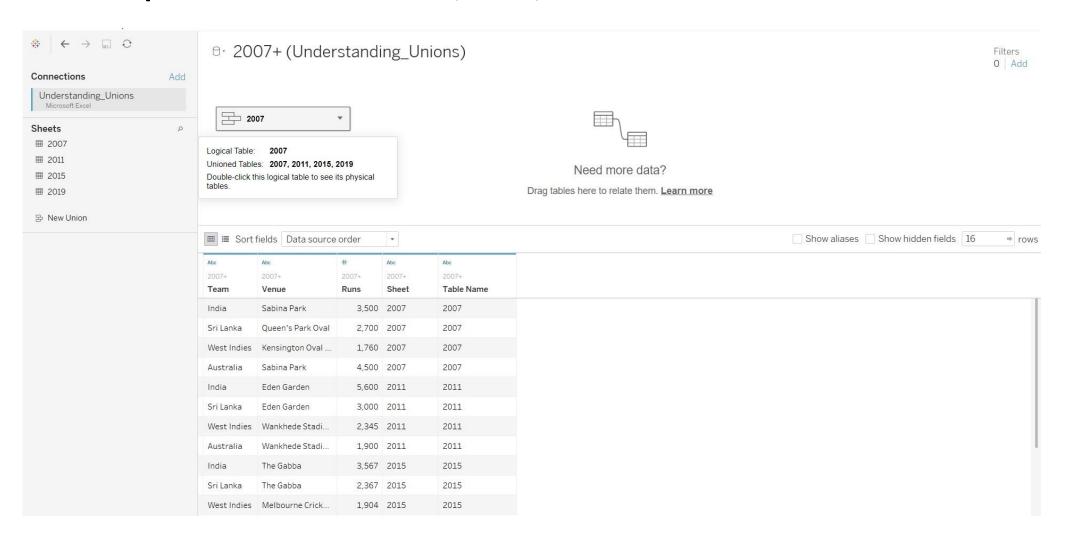
Step 3: Press Shift and select all the remaining tables 2011, 2015 & 2019



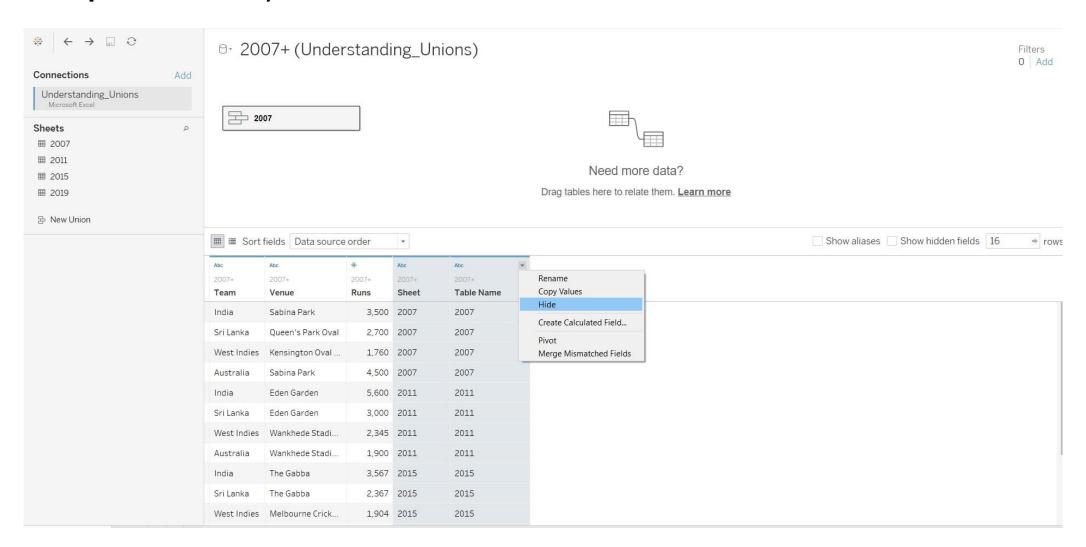
**Step 4:** Drag the tables from the left pane and drag and drop it directly below the first table when you see the **Union** orange color box



# Step 5: Now all tables 2007, 2011, 2015 and 2019 are unioned



Step 6: The newly created columns Sheet and Table Name can be hidden



Step 7: This is the final unioned structure with 16 rows
A union has created a single table that contains
all rows from all the separate tables

