UNDERSTANDING CROSS-DATABASE JOINS

Cross-database joins in Tableau allows the **joins** to be carried out on **tables** from **different data sources**
(although with some limitations from the database side on which platforms are compatible)

Cross-database joins require a **multi-connection data source**—that is, we need to create a new connection to each database before joining the tables

DETAILS OF THE DATA SOURCE USED FOR CROSS-DATABASE JOINS

We will be using the below mentioned fictious spreadsheet and csv file

Players.xlsx
Players Table

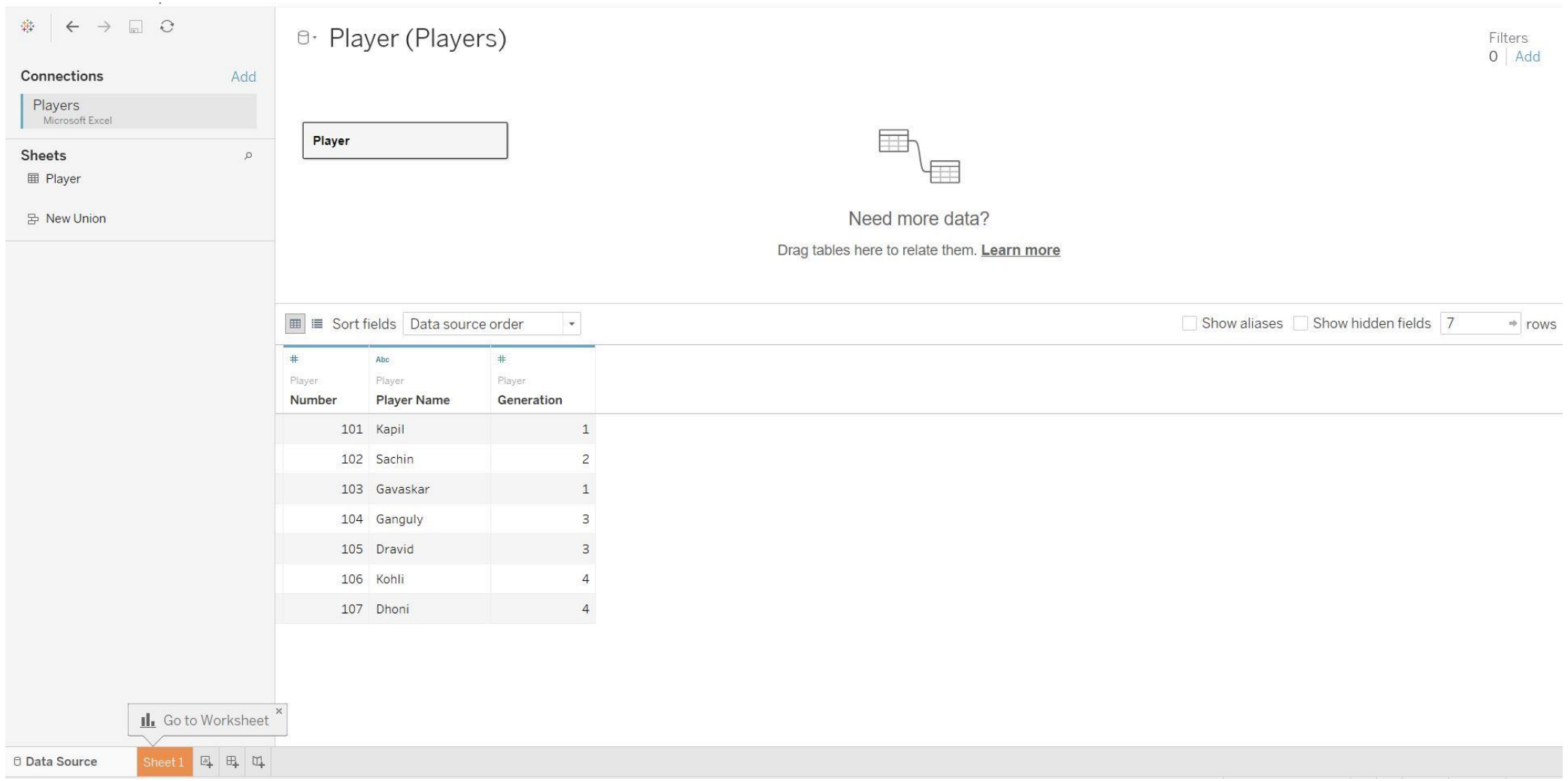
Number	Player Name	Generation
101	Kapil	1
102	Sachin	2
103	Gavaskar	1
104	Ganguly	3
105	Dravid	3
106	Kohli	4
107	Dhoni	4

Match.csv
Match Table

Match Number	Player Number	Date
1	101	01-01-1980
2	102	03-05-1987
3	103	03-01-1980
4	104	04-01-1996
5	105	04-01-1996
6	106	09-07-2010
7	107	07-05-2006

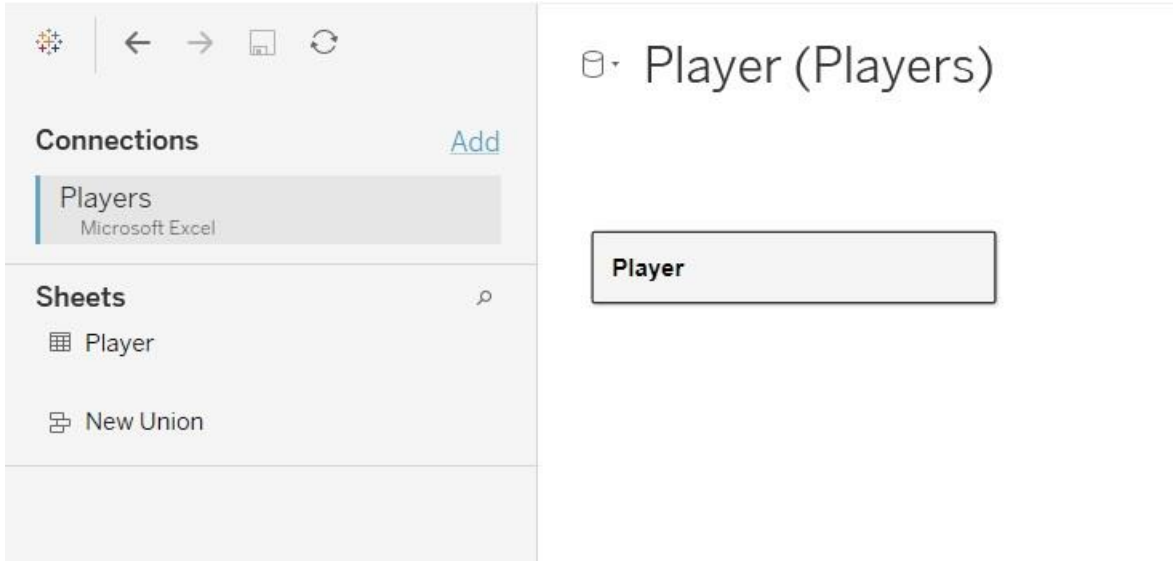
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 1: Connect to the first data source e.g.: **Players.xlsx**



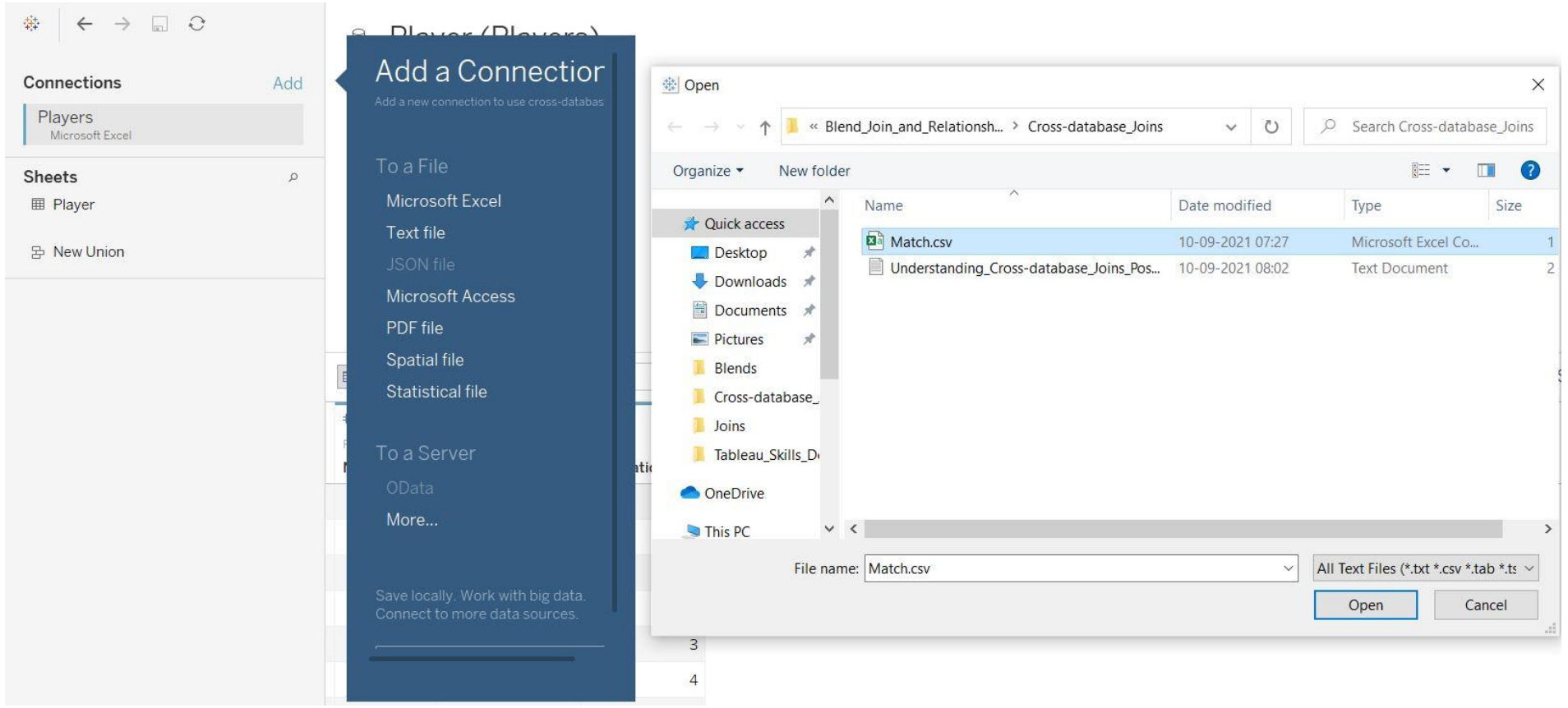
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 2: Use the **Add** option in the data pane to add another connection



STEPS TO CREATE A CROSS-DATABASE JOIN

Step 3: Select the second data source e.g.: **Match.csv** and Click **Open**



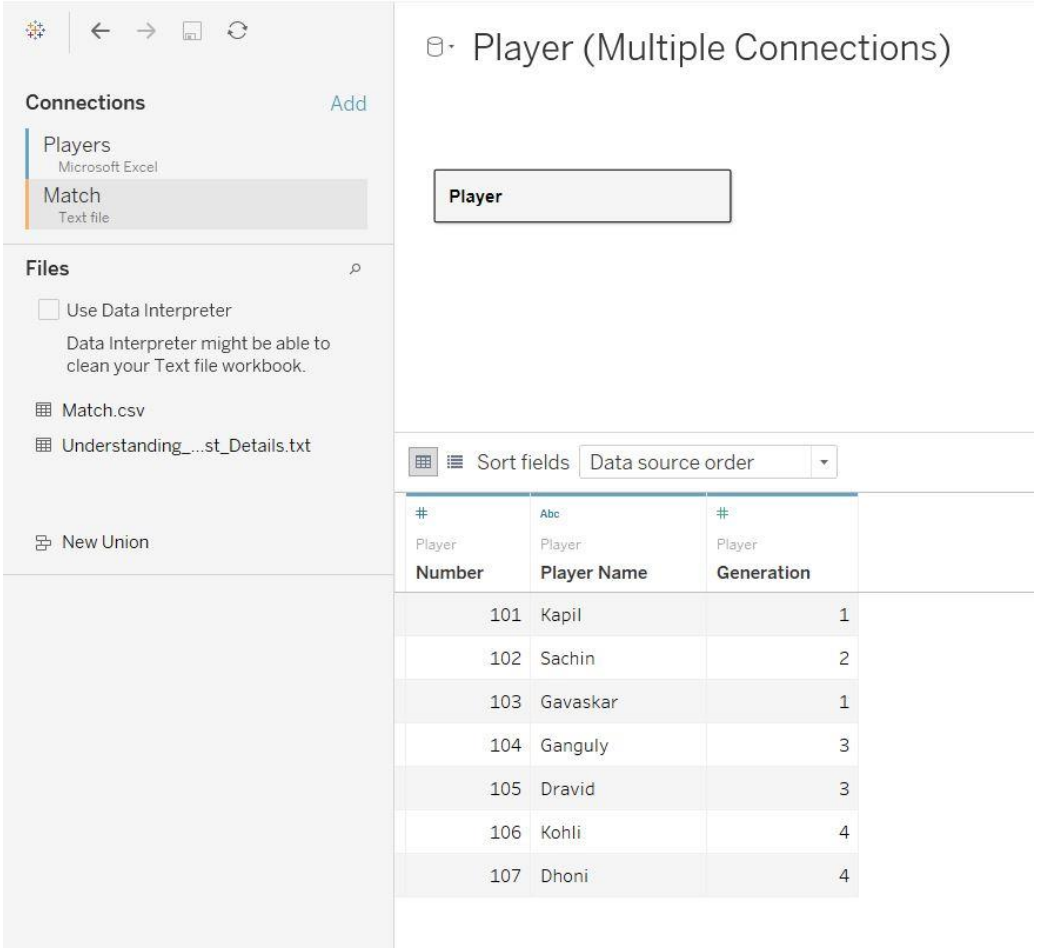
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 4: Now both the data sources will be visible in the **Connections** section

Primary connection is indicated by **Blue** color

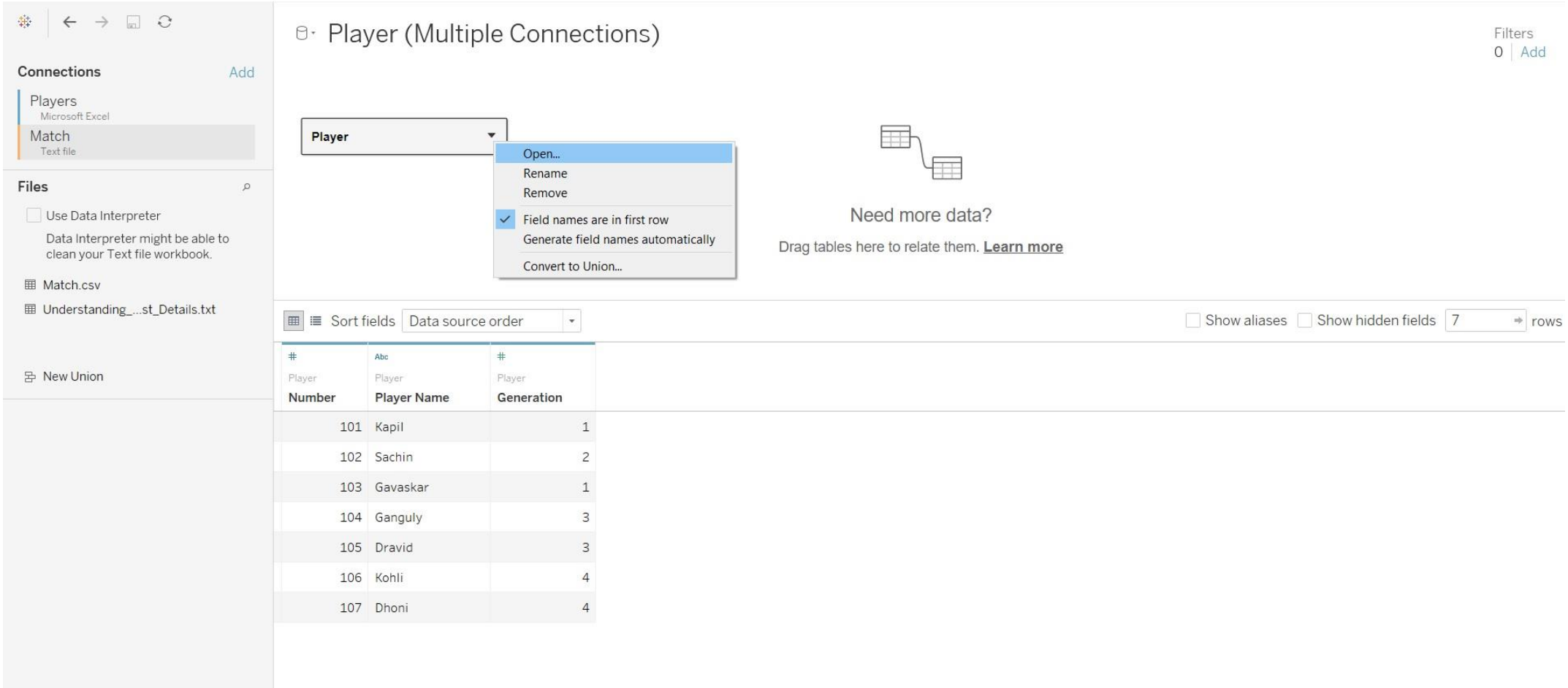
Secondary connection is indicated by **Orange** color

Click the **Players** data source



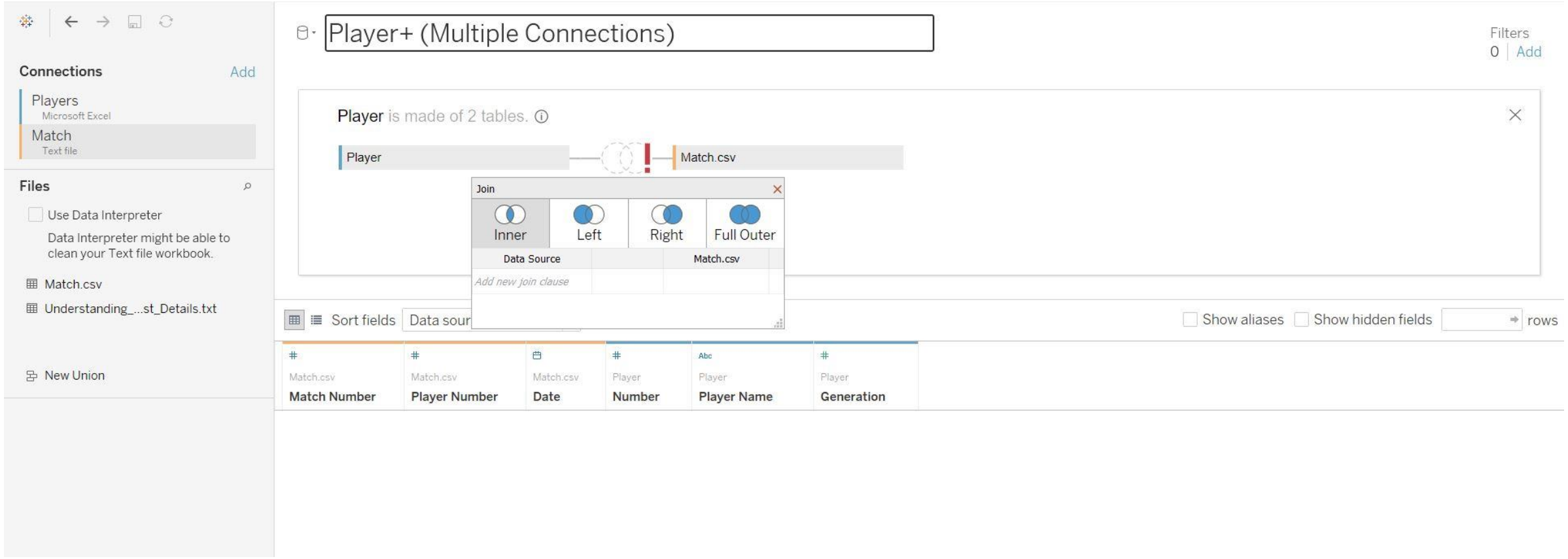
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 5: Select **Open** from the menu or double-click the **Players table** to open the join canvas (**physical layer**)



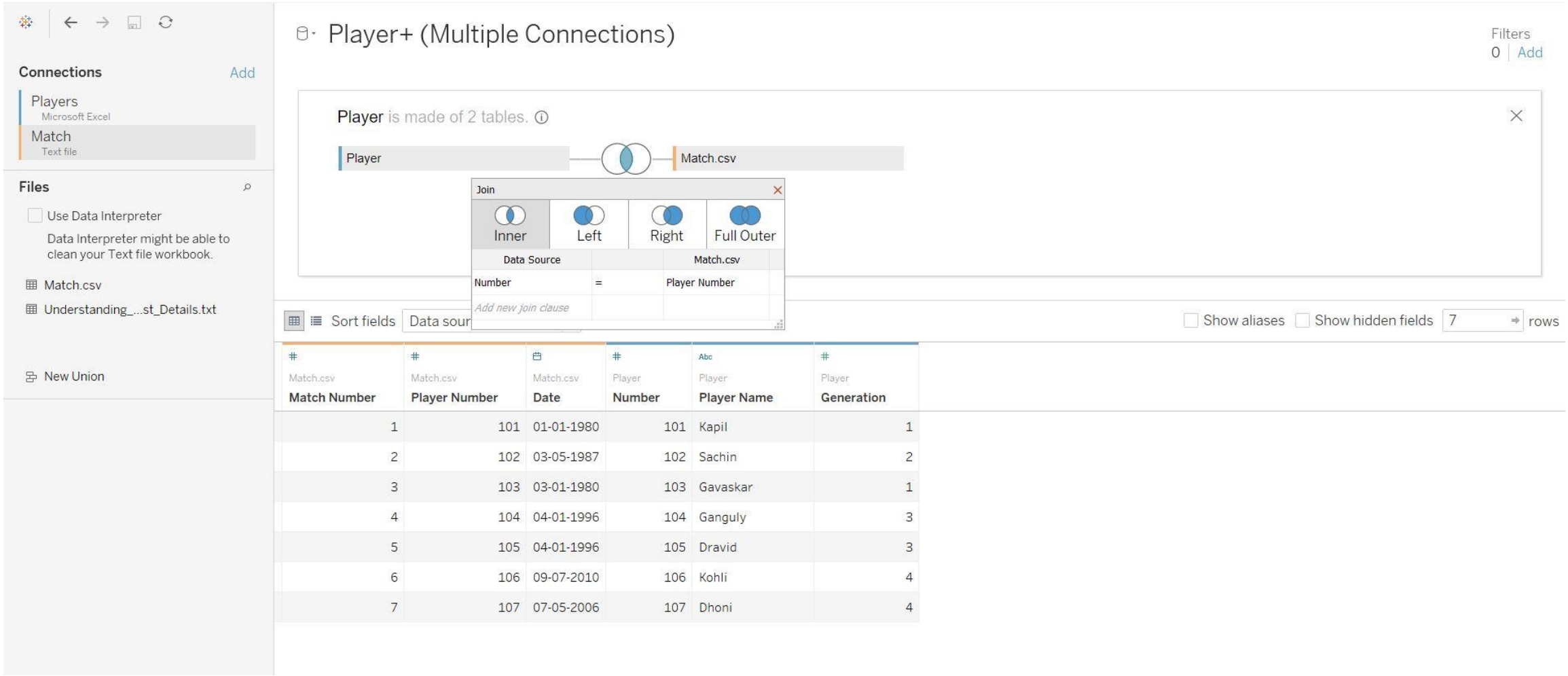
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 6: Double-click or drag **Match table** to the join canvas



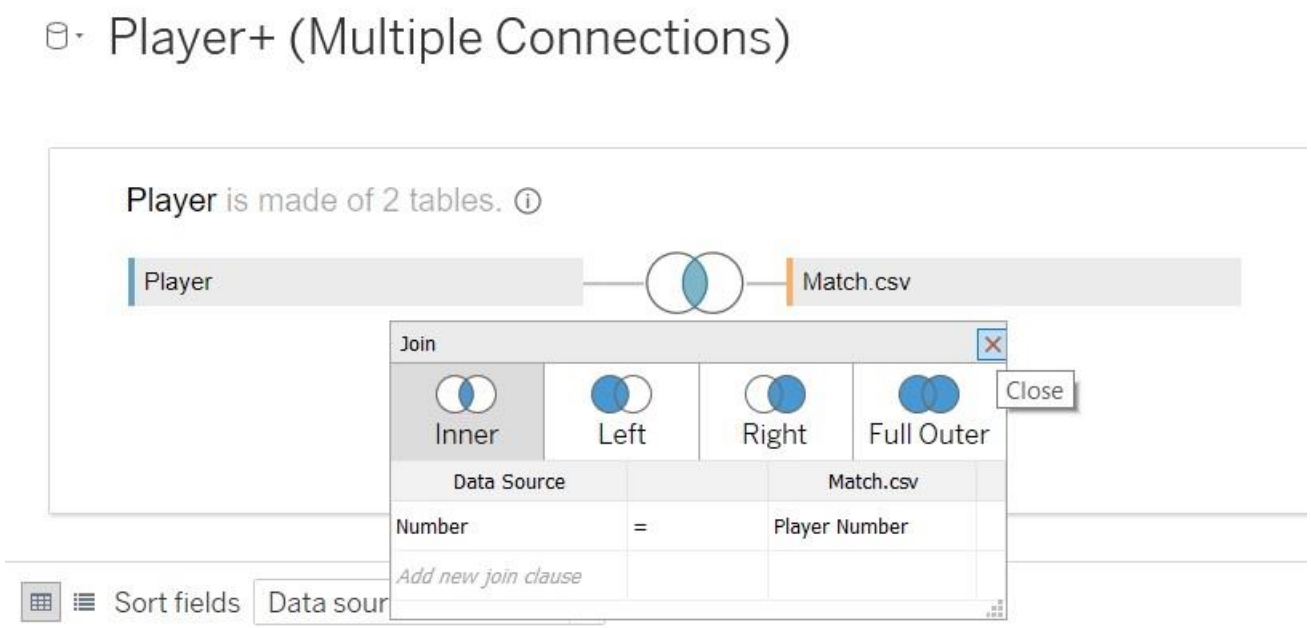
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 7: Select the connecting fields from the drop-down of both tables i.e., Number and Player Number



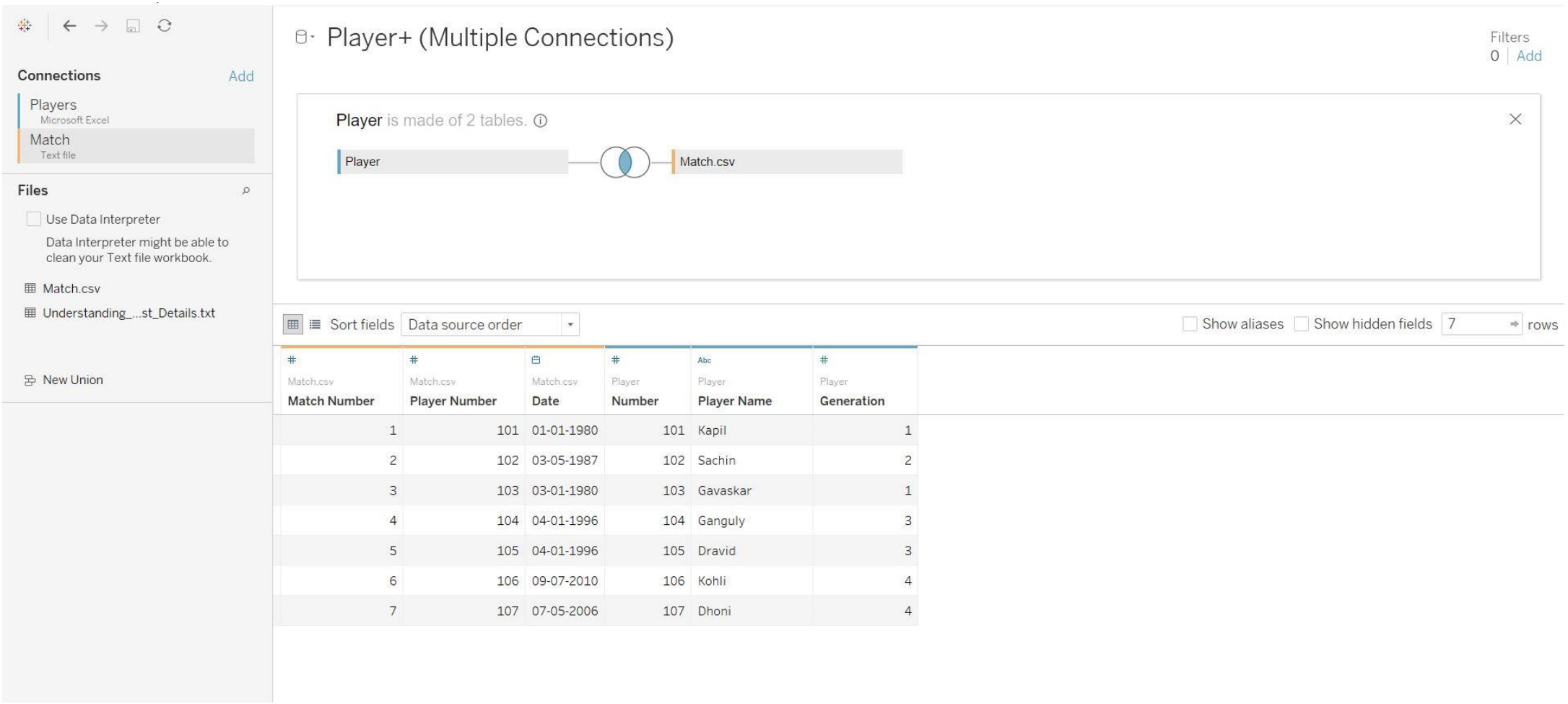
STEPS TO CREATE A CROSS-DATABASE JOIN

Step 8: When finished, close the join dialog and join canvas



STEPS TO CREATE A CROSS-DATABASE JOIN

Step 9: Now we see the final cross-database join created



Match.csv Match Number	Match.csv Player Number	Match.csv Date	Player Number	Player Player Name	Player Generation
1	101	01-01-1980	101	Kapil	1
2	102	03-05-1987	102	Sachin	2
3	103	03-01-1980	103	Gavaskar	1
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