

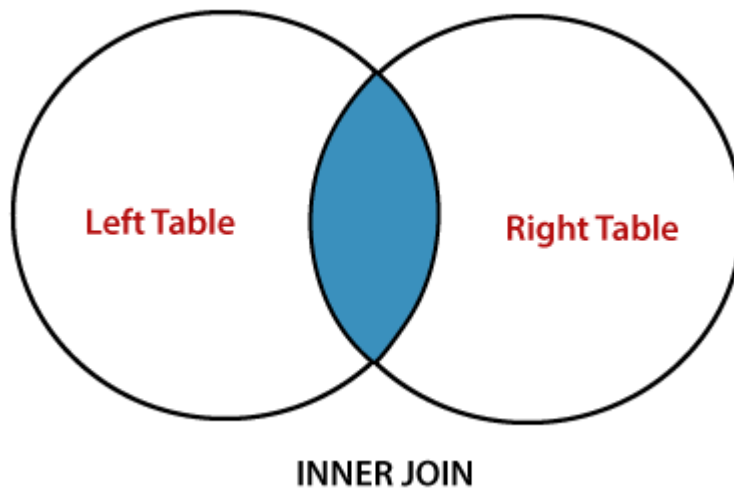
## vi. What are the different joins supported by tableau?

In general, there are four types of joins that you can use in Tableau: inner, left, right, and full outer.

### a) Inner Join

Inner join combines the table that contains values that has matches in both the table

When a value doesn't match across both the table, it dropped entirely.

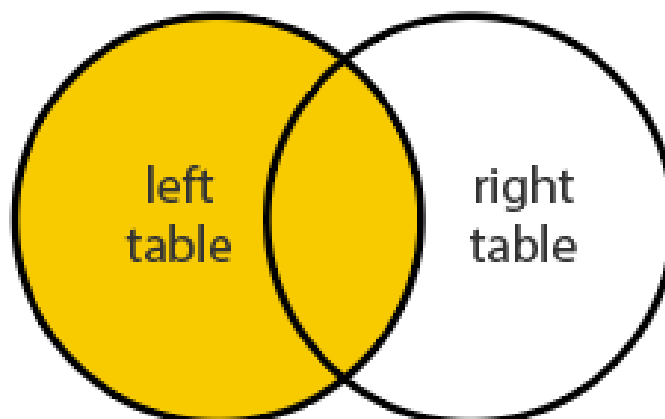


### b) Left Join

Left join combines all the values from the left table and corresponding matches from the right table

When the value in the left table doesn't have a corresponding match in the right table, you will see a null value in the grid.

## LEFT JOIN

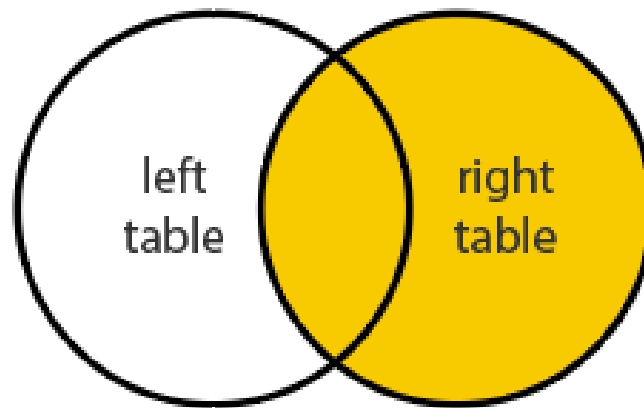


### c) Right Join

Right join combines all the values from the right table and corresponding matches from the left table

When the value in the right table doesn't have a corresponding match in the left table, you will see a null value in the grid.

#### RIGHT JOIN

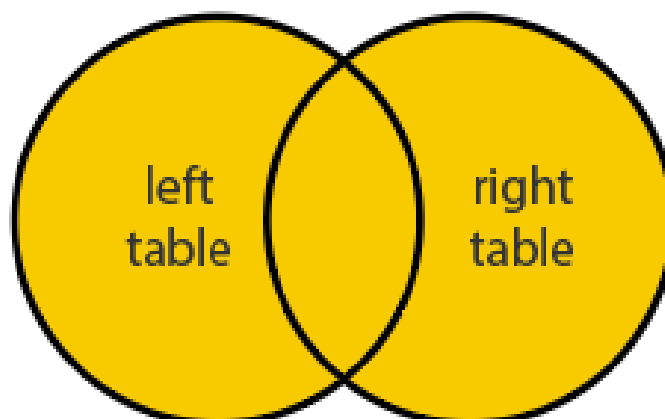


### d) Full outer join

Full outer join combines all the values from both the tables

When a value from either of the table doesn't have a match with the other table, you will see a null value in the grid.

#### OUTER JOIN



## a) Inner Join

First step is to Connect the relevant data sources. Here I use sample superstore sales dataset.

Then drag and drop the first table in the work plane. Then from the drop down menu select open.

Then after opening its should looks something like this.

Tableau Public - Book1

File Data Window Help

Connections Add

Sample - Superstore Sales  
Microsoft Excel

Sheets

☐ Use Data Interpreter  
Data Interpreter might be able to clean your Microsoft Excel workbook.

Orders  
Returns  
Users  
New Union  
New Table Extension

Orders+ (Sample - Superstore Sales)

Filters 0 | Add

Orders is made of 1 table. 0

Orders

Orders 21 fields 8390 rows 100 rows

Name	Orders
Product Category	Product Sub-Category
Product Category	Product Name
Product Category	Product Container
Product Category	Product Base Margin

Type	Field Name	Physical Table	Remote Field
#	Row ID	Orders	Row ID
#	Order ID	Orders	Order ID
#	Order Date	Orders	Order Date

Then select the second table and select the type of join we want.

Tableau Public - Book1

File Data Window Help

Connections Add

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Microsoft Excel

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Orders  
Returns  
Users  
New Union  
New Table Extension

Orders+ (Sample - Superstore Sales)

Filters 0 | Add

Orders is made of 2 tables. 0

Orders Returns

Join

Inner Left Right Full Outer

Data Source Returns

Order ID = Order ID (Returns)

Add new join clause

Orders 23 fields 872 rows 100 rows

Name	Orders
Product Category	Product Sub-Category
Product Category	Product Name
Product Category	Product Container
Product Category	Product Base Margin

Type	Field Name	Physical Table	Remote Field
#	Row ID	Orders	Row ID
#	Order ID	Orders	Order ID
#	Order Date	Orders	Order Date

When finished, close the joined dialogue and join the canvas

### b) Left Join

**Tableau Public - Book1**

File Data Window Help

**Connections** Add

- Sample - Superstore Sales  
Microsoft Excel

**Sheets** ↗

- ☐ Use Data Interpreter  
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- Orders
- Returns
- Users
- New Union
- New Table Extension

## Orders+ (Sample - Superstore Sales)

Filters 0 | Add

Orders is made of 2 tables. ⓘ

Data Source		Returns
Order ID	=	Order ID (Returns)
<i>Add new join clause</i>		

100 → rows ⚙️

Name	Product Category	Product Sub-Category	Product Name	Product Container	Product Base Margin
Office Supplies	Storage & Organization	Eldon Base for stackable stor...	Large Box	0.80	
Office Supplies	Scissors, Rulers and Trimmers	Kleencut® Forged Office She...	Small Pack	0.55	
Furniture	Office Furnishings	Tenex Contemporary Contur ...	Medium Box	0.65	
Furniture	Tables	KI Conference Tables	Jumbo Box	0.72	
Technology	Telephones and Communicat...	Bell Sonacor JB700 Caller ID	Medium Box	0.60	
Technology	Computer Peripherals	Imation 3.5 IBM Diskettes, 10...	Small Pack	0.79	

**Data Source** Sheet1

c) Right join-

Tableau Public - Book1

FileDataWindowHelp

Connections

Sample - Superstore Sales

Microsoft Excel

Sheets

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Orders

Returns

Users

New Union

New Table Extension

Orders+ (Sample - Superstore Sales)

Filters0Add

Orders is made of 2 tables.

OrdersReturns

Join

Inner

Left

Right

Full Outer

Data Source		Returns
Order ID	=	Order ID (Returns)
Add new join clause		

Orders

23 fields 872 rows

100rows

Name	Orders
Orders	

Type	Field Name	Physical Table	Remote Fiel...
#	Row ID	Orders	Row ID
#	Order ID	Orders	Order ID
#	Order Date	Orders	Order Date

Product Category	Product Sub-Category	Product Name	Product Container	Product Base Margin
Technology	Computer Peripherals	Verbatim DVD-R, 4.7GB, Spin...	Small Pack	0.49
Furniture	Office Furnishings	Advantus Employee of the M...	Small Pack	0.44
Office Supplies	Pens & Art Supplies	Newell 308	Wrap Bag	0.60
Office Supplies	Storage & Organization	Safco Industrial Wire Shelving	Large Box	null
Technology	Computer Peripherals	Imation 3.5", DISKETTE 4476...	Small Pack	0.64
Office Supplies	Pens & Art Supplies	Boston 1645 Deluxe Heavier...	Small Pack	0.58

Data Source

Sheet1

14431

d) Inner Join-

Tableau Public - Book1

FileDataWindowHelp

Connections

Sample - Superstore Sales

Microsoft Excel

Sheets

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Orders

Returns

Users

New Union

New Table Extension

Orders+ (Sample - Superstore Sales)

Filters0Add

Orders is made of 2 tables.

OrdersReturns

Join

Inner

Left

Right

Full Outer

Data Source		Returns
Order ID	=	Order ID (Returns)
Add new join clause		

Orders

23 fields 8390 rows

100rows

Name	Orders
Product Category	Product Sub-Category
Product Name	Product Container
Product Base Margin	

Data Source

Sheet1

14631

Type	Field Name	Physical Table	Remote Fiel...
#	Row ID	Orders	Row ID
#	Order ID	Orders	Order ID
#	Order Date	Orders	Order Date

Product Category	Product Sub-Category	Product Name	Product Container	Product Base Margin
Office Supplies	Storage & Organization	Eldon Base for stackable stor...	Large Box	0.80
Office Supplies	Scissors, Rulers and Trimmers	Kleencut® Forged Office She...	Small Pack	0.55
Furniture	Office Furnishings	Tenex Contemporary Contur ...	Medium Box	0.65
Furniture	Tables	KI Conference Tables	Jumbo Box	0.72
Technology	Telephones and Communicat...	Bell Sonecor JB700 Caller ID	Medium Box	0.60
Technology	Computer Peripherals	Imation 3.5 IBM Diskettes, 10...	Small Pack	0.79