

Set up

- Download files from data.hsl.virginia.edu
 - Click Workshops → Workshop Materials
 - Download all files for today's class
- Move files to new folder (somewhere convenient)
- Make new R project
 - In Rstudio, File → New Project → Existing Directory
 - Make R project in folder with workshop materials

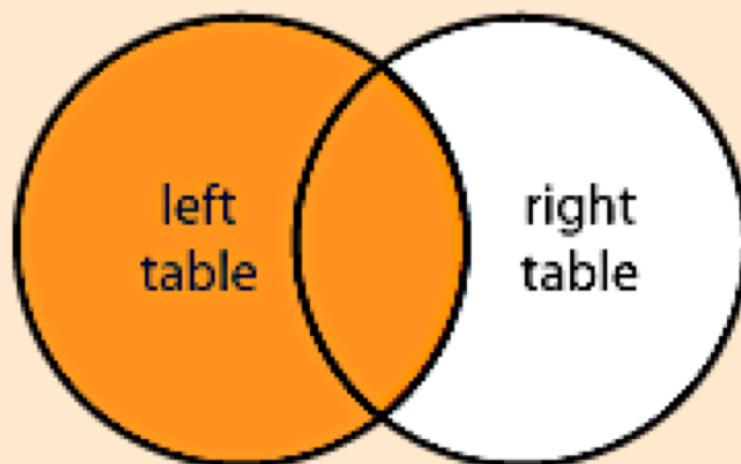
Left join

a		b	
x1	x2	x1	x3
A	1	A	T
B	2	B	F
C	3	D	T

x1	x2	x3
A	1	T
B	2	F
C	3	NA

dplyr::left_join(a, b, by = "x1")
Join matching rows from b to a.

LEFT JOIN



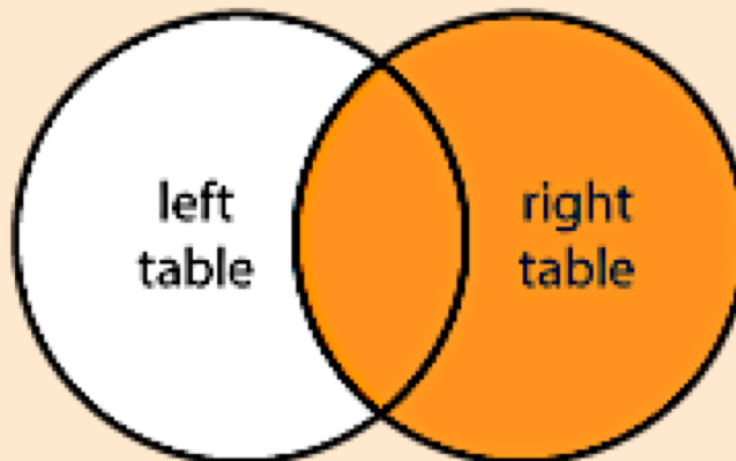
Right join

a		b	
x1	x2	x1	x3
A	1	A	T
B	2	B	F
C	3	D	T

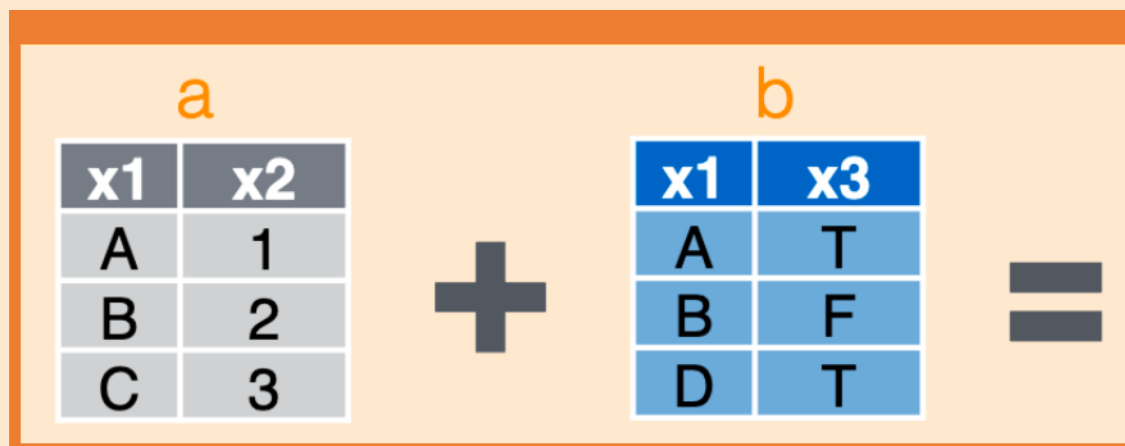
x1	x3	x2
A	T	1
B	F	2
D	T	NA

dplyr::right_join(a, b, by = "x1")
Join matching rows from a to b.

RIGHT JOIN



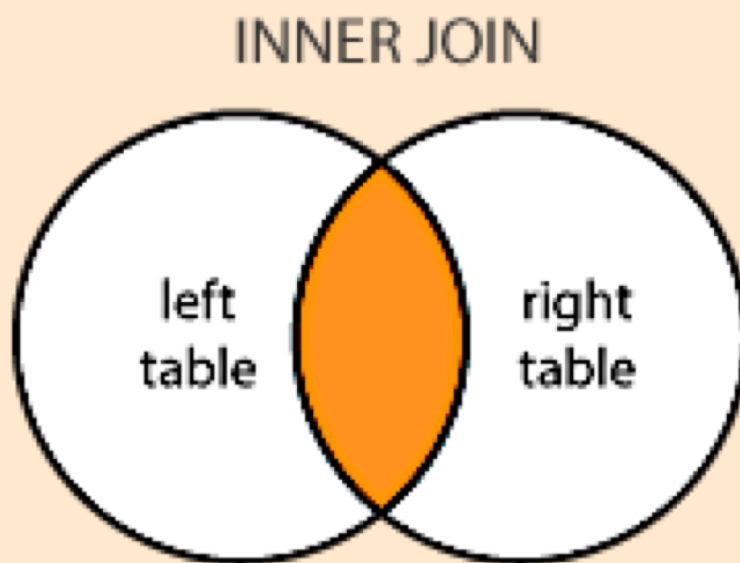
Inner join



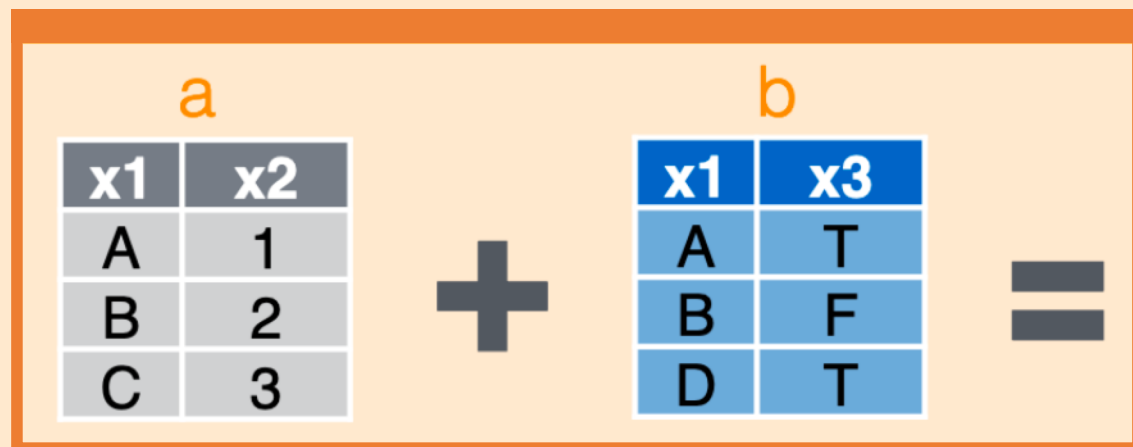
x1	x2	x3
A	1	T
B	2	F

dplyr::inner_join(a, b, by = "x1")

Join data. Retain only rows in both sets.



Full join



x1	x2	x3
A	1	T
B	2	F
C	3	NA
D	NA	T

dplyr::full_join(a, b, by = "x1")

Join data. Retain all values, all rows.

FULL JOIN

