Week 4: Data Wrangling pt. 2

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Combine Data Sets

a

x1	x2
A	1
B	2
C	3

+

b

x1	x3
A	T
B	F
D	T

=

Mutating Joins

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.

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.

x1	x2	x3
A	1	T
B	2	F

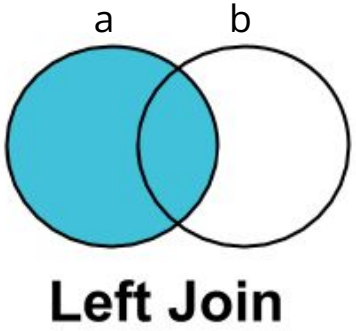
dplyr::**inner_join(a, b, by = "x1")**

Join data. Retain only rows in both sets.

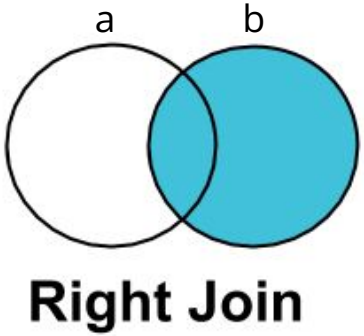
x1	x2	x3
A	1	T
B	2	F
C	3	NA
D	NA	T

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

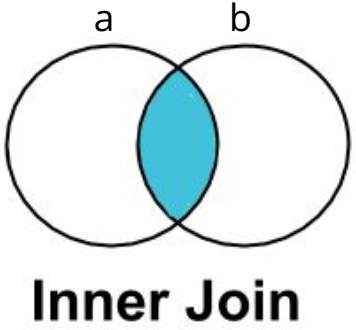
Join data. Retain all values, all rows.



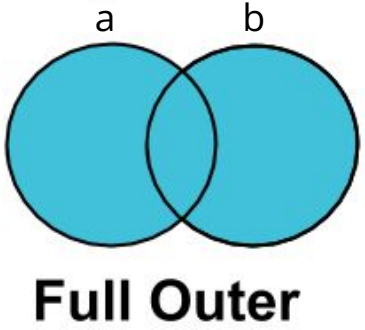
Left Join



Right Join

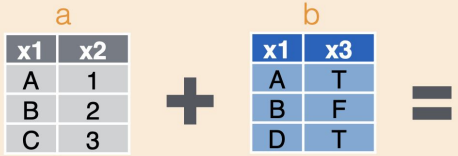


Inner Join

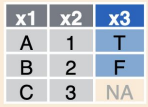


Full Outer Join

Combine Data Sets



Mutating Joins

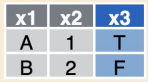


dplyr::**left_join(a, b, by = "x1")**

Join matching rows from b to a.

dplyr::**right_join(a, b, by = "x1")**

Join matching rows from a to b.



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

Join data. Retain only rows in both sets.

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

Join data. Retain all values, all rows.

Left Join

```
joined_df <- left_join(a,b)
```

```
joined_df <- a %>%
      left_join(b)
```

Right Join

```
joined_df <- right_join(a,b)
```

```
joined_df <- a %>%
      right_join(b)
```

dplyr::case_when()

IF ELSE...
(but you love it?)

```
df %>%                                  # ADD COLUMN 'danger'
  mutate(danger = case_when(type == "kraken" ~ "extreme!",   # IF type is kraken THEN danger is extreme!
                            T ~ "high"))                     # OTHERWISE, danger is high.
```

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