

Joining data in R

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Table 1: trout

River	trout_count
MARYS River	1
ASOTIN CREEK	4
TUCANNON RIVER	6

Table 2: river

River	state
MARYS River	Nevada
ASOTIN CREEK	Washington
HUDSON RIVER	New York

```
River_State_Trout <- inner_join(trout ,river,by="River")
```

inner_join(): includes all rows in x and y.

Table 3: Inner join

River	state	trout_count
MARYS River	Nevada	1
ASOTIN CREEK	Washington	4

```
River_State_Trout <- full_join(trout ,river,by="River")
```

full_join(): includes all rows in x or y.

Table 4: Full join

River	state	trout_count
MARYS River	Nevada	1
ASOTIN CREEK	Washington	4
HUDSON RIVER	New York	NA
TUCANNON RIVER	NA	6

```
River_State_Trout <- left_join(river,trout,by="River")
```

`left_join()`: includes all rows in x.

Table 5: Left join

River	state	trout_count
MARYS River	Nevada	1
ASOTIN CREEK	Washington	4
HUDSON RIVER	New York	NA

```
River_State_Trout <- right_join(river,trout,by="River")
```

`right_join()`: includes all rows in y.

Table 6: Right join

River	state	trout_count
MARYS River	Nevada	1
ASOTIN CREEK	Washington	4
TUCANNON RIVER	NA	6