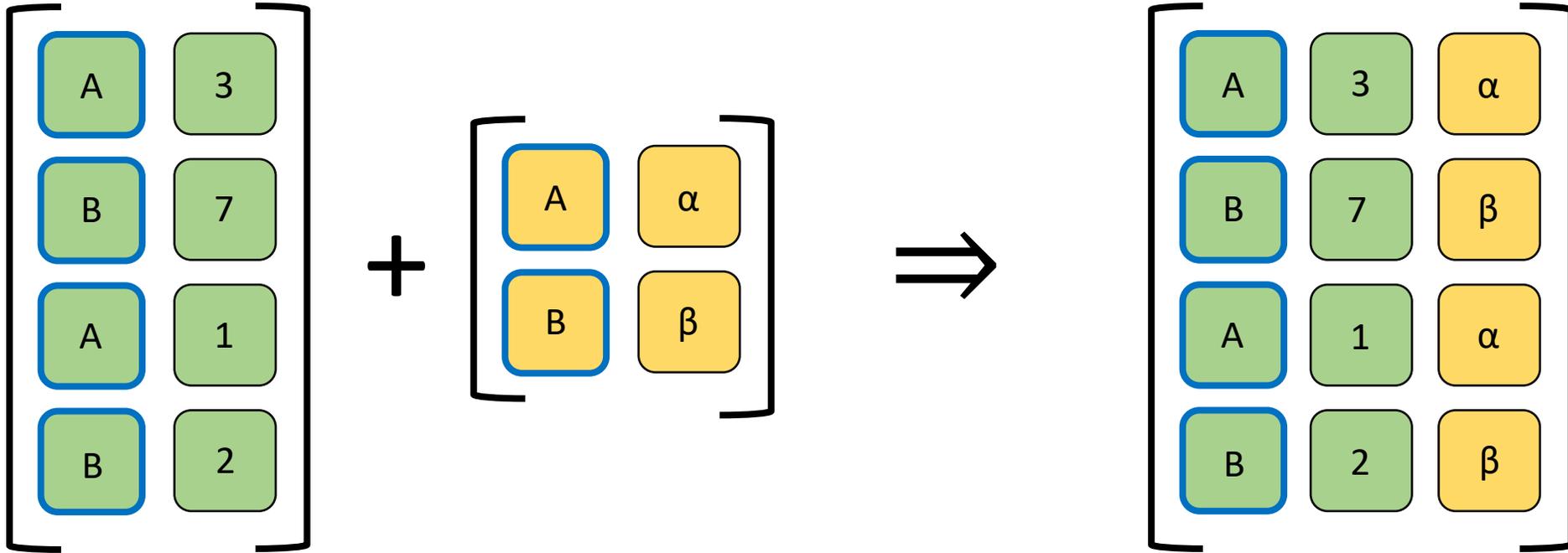


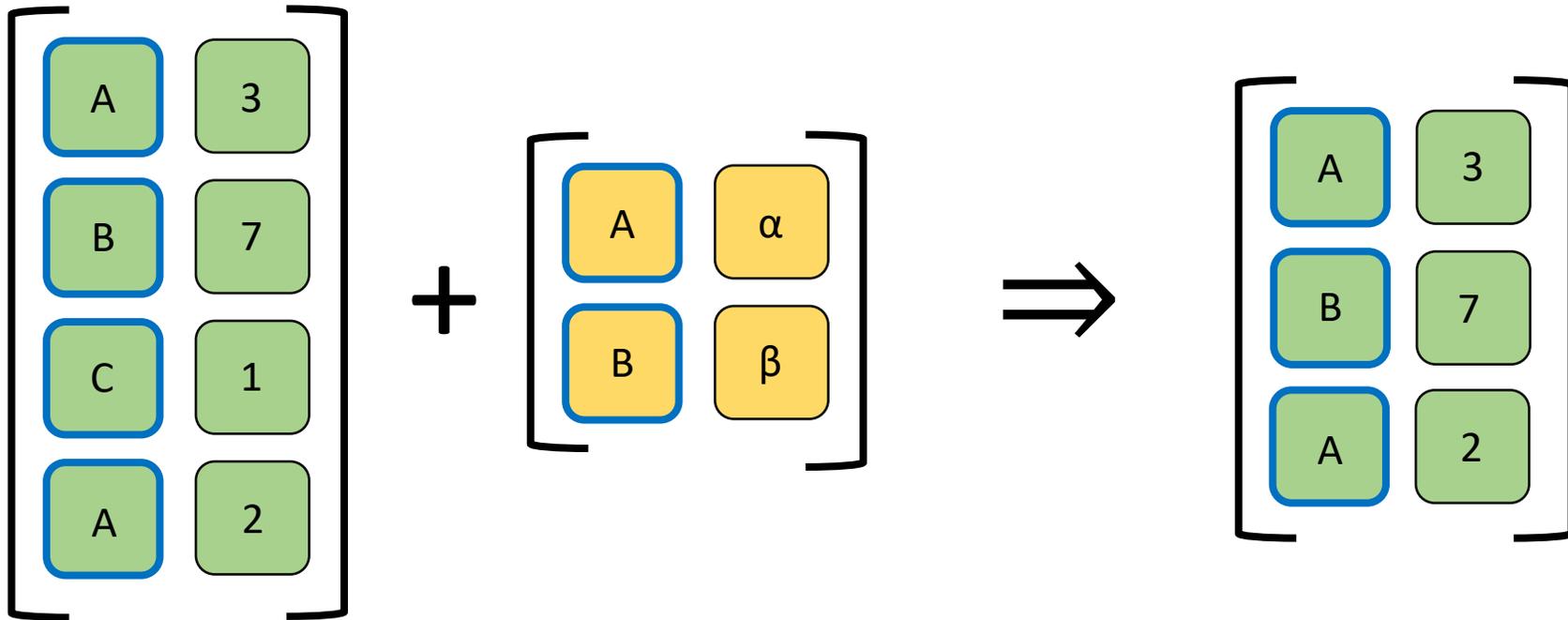
# MUTATING JOINS

`left_join()`, `inner_join()`, `full_join()`, `right_join()`



# FILTERING JOINS

semi\_join(), anti\_join()



# BEST PRACTICES

When using table joins, keep these three best practices in mind:

- never do a mutating join on a key that is not primary in at least one of the two tables
- as a convention, I recommend keeping the table with the foreign key on the left; this is usually the larger of the two tables
- the only time to use `full_join` is when the key is primary in both tables

If you follow these rules, you should rarely need `full_join()` and `right_join()`.