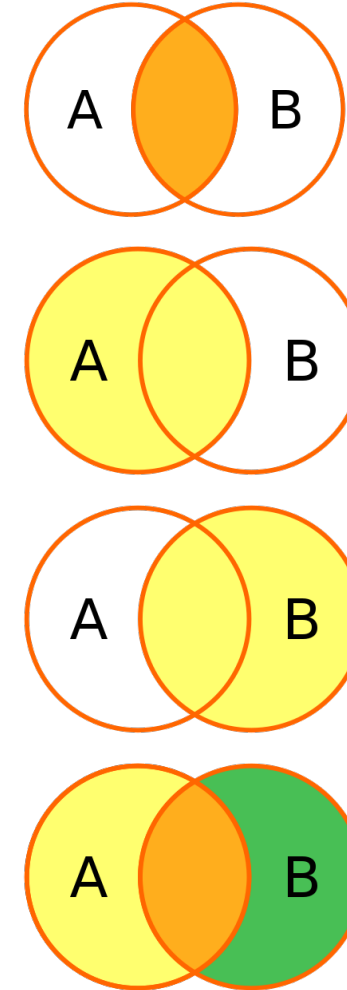# Lecture #5 | pandas (Part 2)

SE377 Introduction to Big Data Analysis and Visualization (2017)
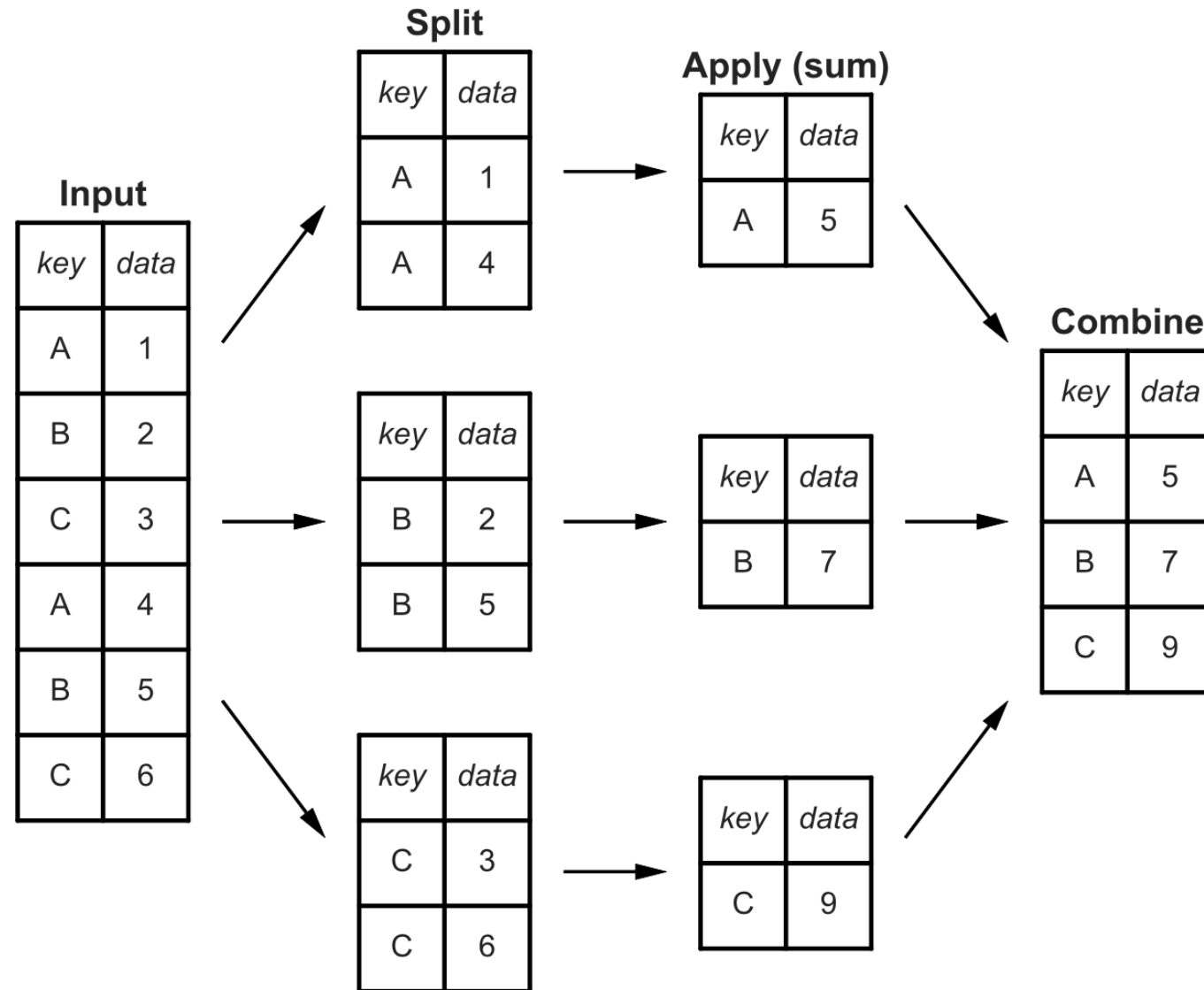
Prof. Min-gyu Cho

join or `merge()`

- Inner: only the rows in which the left table have matching keys in the right table

- Left: all rows from the left table, and any rows with matching keys from the right table

- Right: all rows from the right table, and any rows with matching keys from the left table

- Outer: all rows from both tables, join records from the left which have matching keys in the right table

Source: https://en.wikipedia.org/wiki/Join_(SQL)

Split-apply-combine

Source: Python Data Science Handbook

Reading List

- Merge, join, concatenate

  - https://pandas.pydata.org/pandas-docs/stable/merging.html

- Group by: split-apply-combine

  - https://pandas.pydata.org/pandas-docs/stable/groupby.html

- Pandas API reference

  - https://pandas.pydata.org/pandas-docs/stable/api.html#plotting

ANY QUESTIONS?