Lesson 10: Merging and Joining
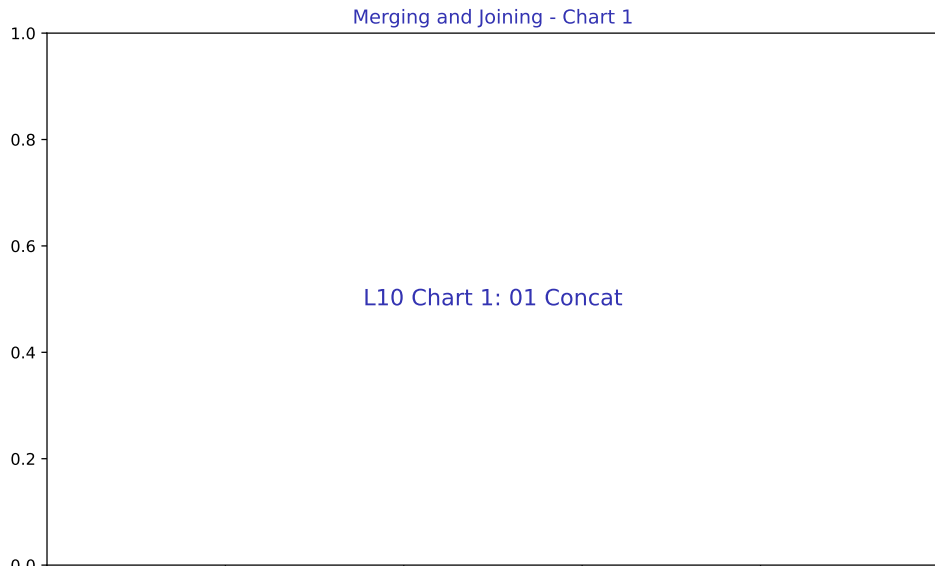Data Science with Python – BSc Course
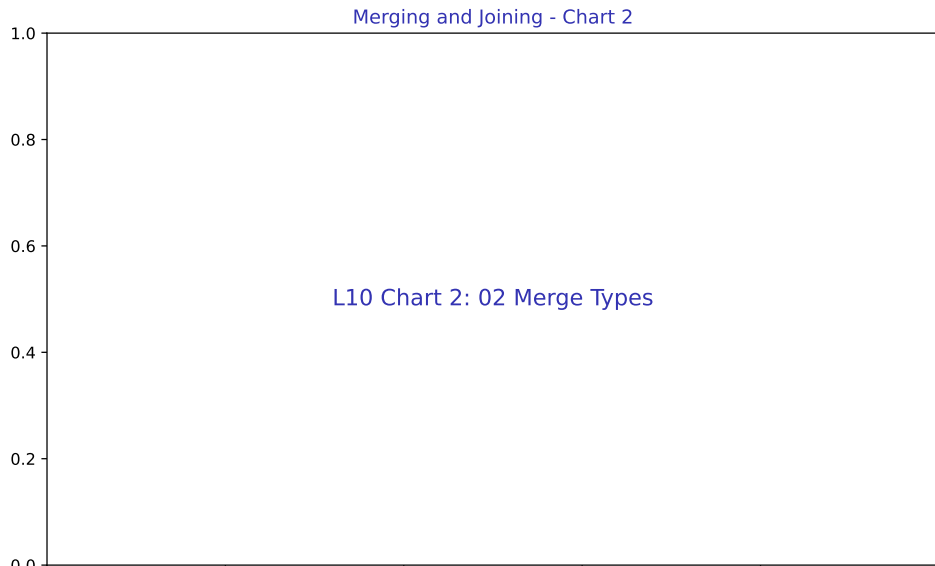
45 Minutes

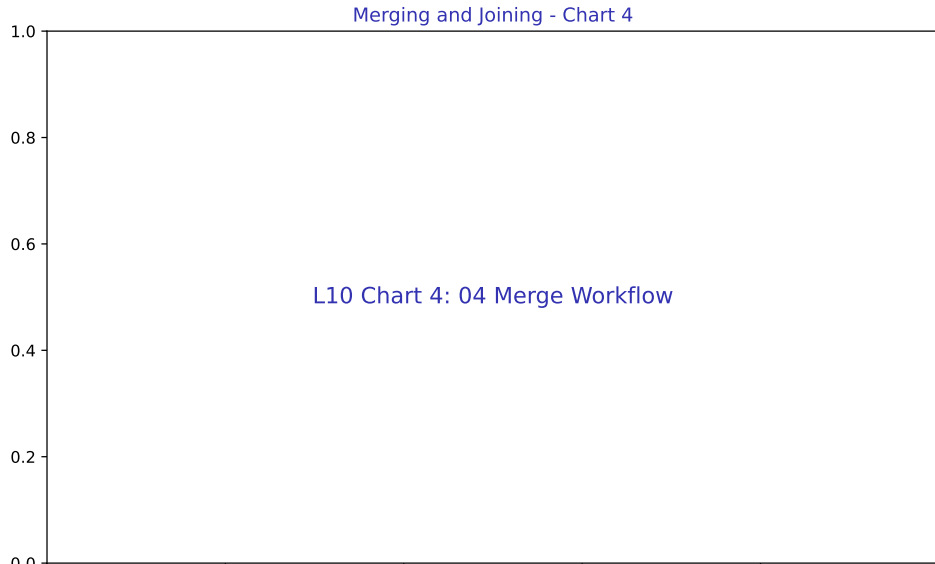## Learning Objectives

After this lesson, you will be able to:

- pd.concat() for stacking
- pd.merge() for SQL-style joins
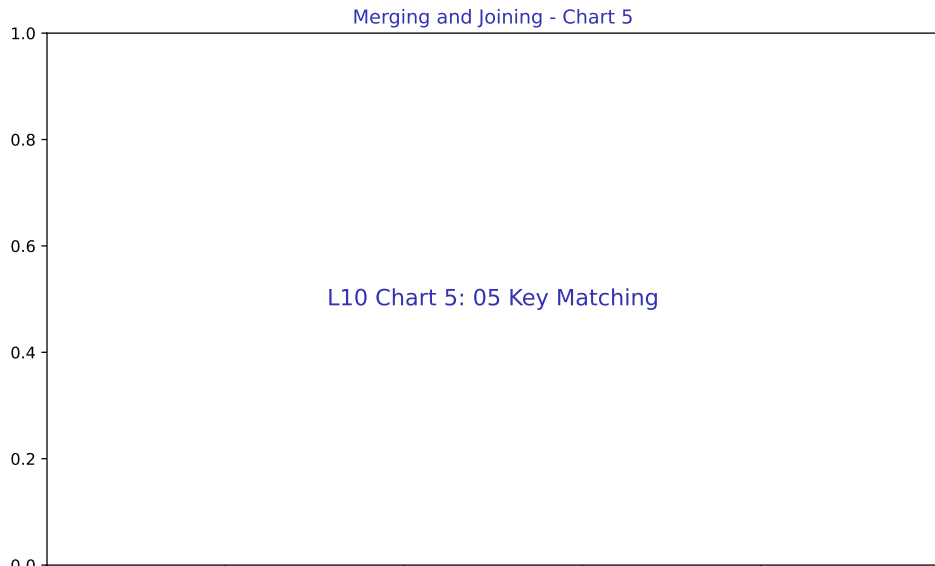- Join types: inner, outer, left, right
- Handling key columns

Finance application: Stock data processing and analysis
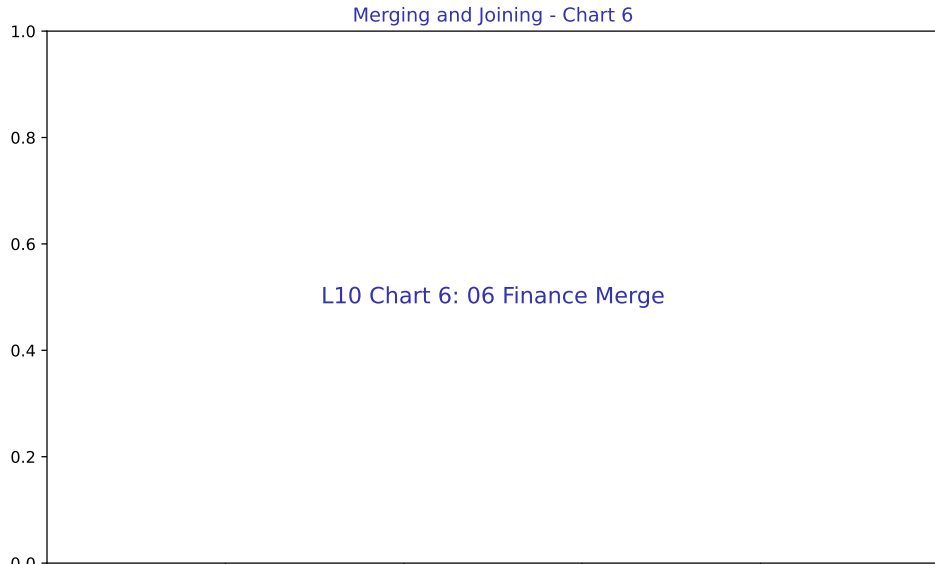
Concat

L10 Chart 1: 01 Concat

Merging and Joining - Chart 2

L10 Chart 2: 02 Merge Types

Merging and Joining - Chart 3

L10 Chart 3: 03 Join Comparison

Merging and Joining - Chart 4

L10 Chart 4: 04 Merge Workflow

Merging and Joining - Chart 5

L10 Chart 5: 05 Key Matching

Merging and Joining - Chart 6

L10 Chart 6: 06 Finance Merge

Merging and Joining - Chart 7

L10 Chart 7: 07 Multi Source

Merging and Joining - Chart 8

L10 Chart 8: 08 Troubleshooting

Lesson Summary
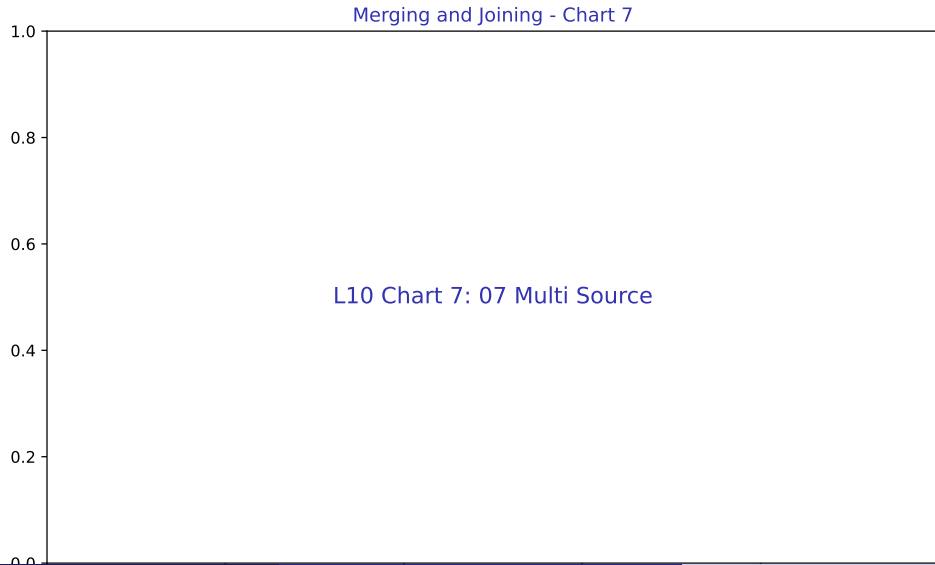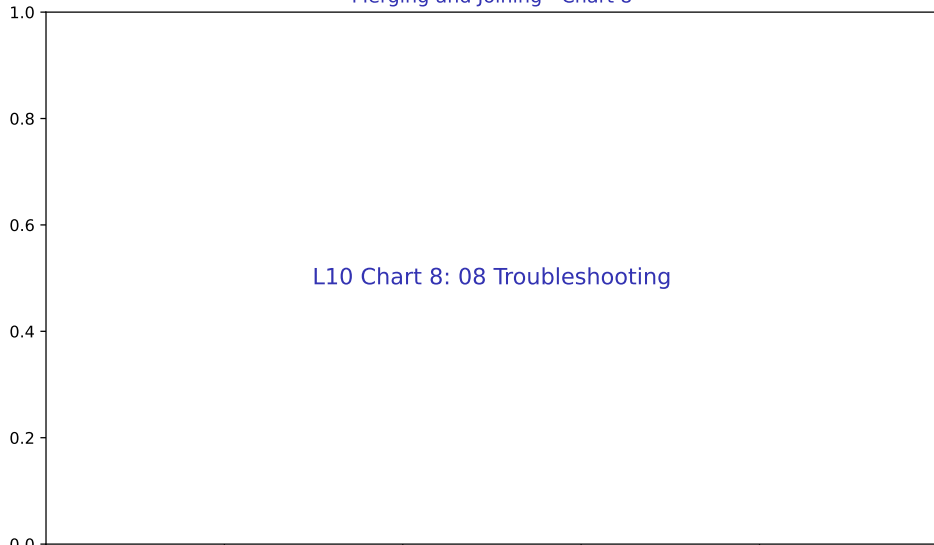
Key Takeaways:

- pd.concat() for stacking
- pd.merge() for SQL-style joins
- Join types: inner, outer, left, right
- Handling key columns

Practice: Apply these concepts to the stock price dataset.