

Lesson 5:
Data Analysis Process - Case Study 2

SEARCH

RESOURCES

CONCEPTS

5. Assessing Data

6. Cleaning Column Labels

7. Filter, Drop Nulls, Dedupe

8. Inspecting Data Types

9. Fixing Data Types Pt 1

10. Fixing Data Types Pt 2

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10. Fixing Data Types Pt 2

11. Fixing Data Types Pt 3

12. Exploring with Visuals

13. Conclusions & Visuals

14. Types of Merges

15. Merging Datasets

16. Results with Merged Dataset

17. Conclusion

Types of Merges

SEND FEEDBACK

Types of Merges

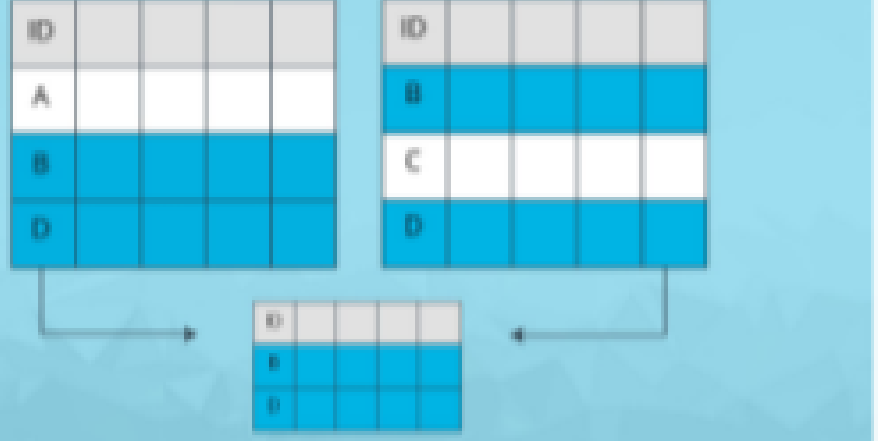
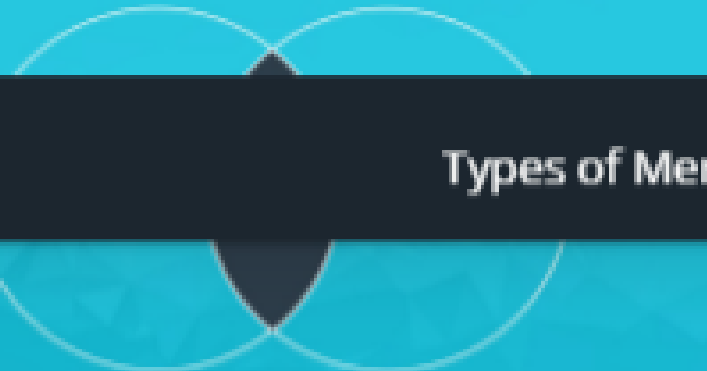
So far, we've learned about appending dataframes. Now we'll learn about [pandas Merges](#), a different way of combining dataframes. This is similar to the database-style "join." If you're familiar with SQL, this [comparison with SQL](#) may help you connect these two.

Here are the four types of merges in pandas. Below, "key" refers to common columns in both dataframes that we're joining on.

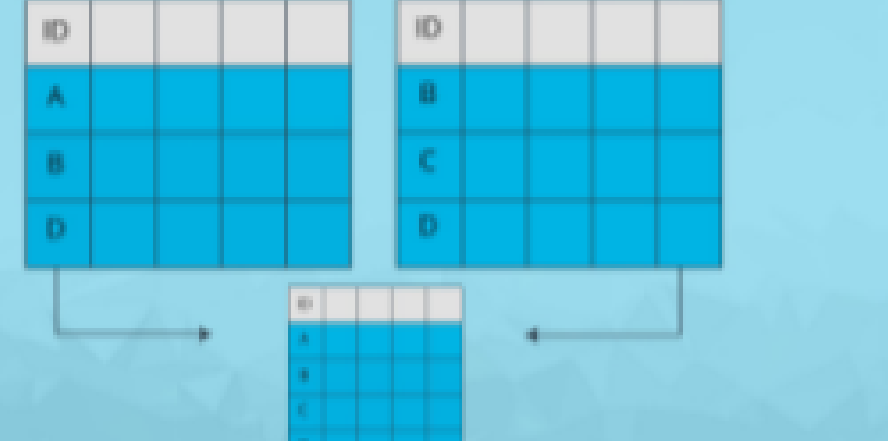

1. Inner Join - Use intersection of keys from both frames.
2. Outer Join - Use union of keys from both frames.
3. Left Join - Use keys from left frame only.
4. Right Join - Use keys from right frame only.

Below are diagrams to visualize each type.

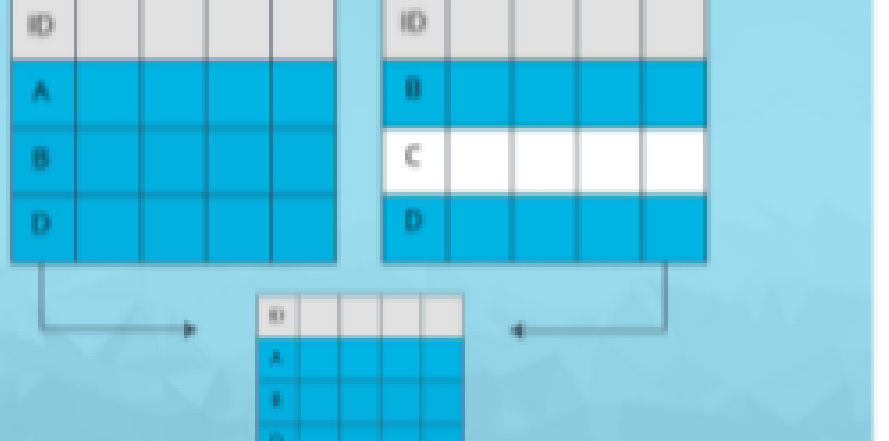
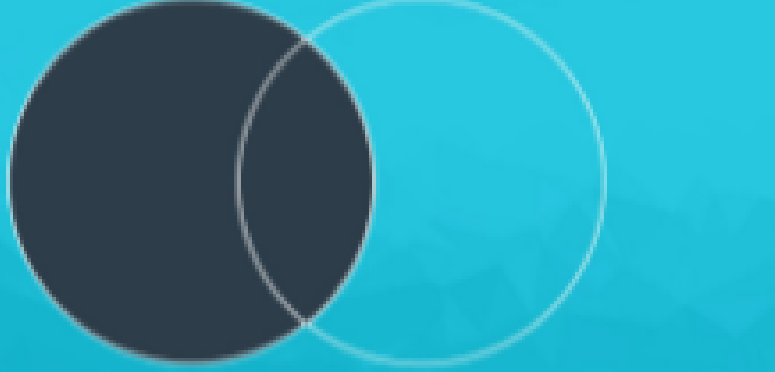
INNER JOIN



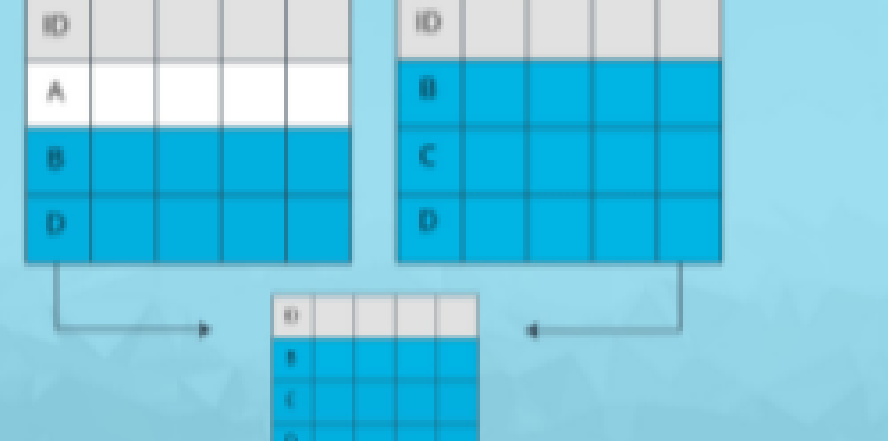
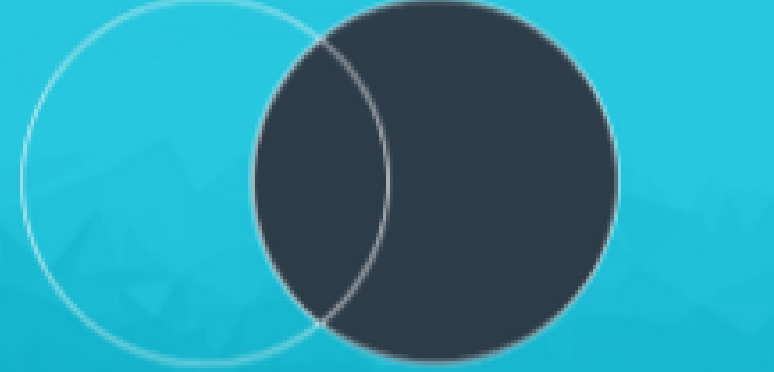
OUTER JOIN



LEFT JOIN



RIGHT JOIN



Read the documentation for pandas Merges [here](#).

NEXT