

Python Pandas for Data Analysis PDF Page

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PART 2: Page content (copy-paste ready)

SEO Title (46 chars):

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Meta Description (127 chars):

Download the pandas data analysis guide PDF from Uncodemy: load, clean, group, merge and summarise data with runnable examples.

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Quick Answer

This page offers Uncodemy's pandas data analysis guide as a PDF download. Pandas is the main Python library for working with tables of data. The guide explains DataFrames and Series, selecting and filtering, groupby aggregation, merging, working with dates, pivot tables and the errors that trip up beginners. Every example uses a small table built in the code so you can run it as is.

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Pandas provides two main structures. A Series is a single labelled column of values. A DataFrame is a table of columns, each a Series, sharing the same row index. Together with a large set of methods they let you load files, select and filter rows, create new columns, group and summarise, combine tables, reshape data and work with dates and text. For analysts, pandas is the bridge between a spreadsheet and a full programming language: the ideas are familiar from Excel and SQL, but the work is repeatable and scales to bigger files. The examples below build their own small dataset so that nothing external is needed.

A small orders table built in code, with typical inspection methods.

Selecting, filtering and new columns

SQL and pandas side by side

Groupby: summarising by category

Working with dates

Merging and pivoting

```
managers = pd.DataFrame({"city": ["Delhi", "Noida", "Pune"],  
                          "manager": ["Asha", "Ravi", "Meera"]})
```

```
merged = orders.merge(managers, on="city", how="left", validate="many_to_one")
print(len(orders), len(merged))      # row count should not change

pivot = pd.pivot_table(merged[merged["status"] == "done"],
                        index="city", columns="month",
                        values="amount", aggfunc="sum", fill_value=0)

print(pivot)
```

Habits for reliable pandas work

- Check shape and dtypes right after loading.
- Parse dates when reading the file instead of fixing them later.
- Use brackets around each condition and use & and |, not and and or.
- Compare row counts before and after merges.
- Prefer vectorised operations over loops over rows.
- Chain steps in a readable way and print intermediate results while you learn.

Common errors and their usual causes

Message or symptom	Likely cause	Fix
KeyError: column	Misspelled or padded column name	Print df.columns; strip spaces
ValueError: ambiguous truth value	Used and or or instead of & and	Use & and with brackets
SettingWithCopyWarning	Assigning to a slice	Use .copy() or .loc
Row count grows after merge	Duplicate keys on the right side	Use validate and deduplicate
Dates as object dtype	Not parsed	Use pd.to_datetime

Where to go next

Once these operations feel natural, learn reshaping with melt and pivot, string methods for cleaning, window-style operations with rolling and shift and plotting directly from DataFrames. Practise by taking a real CSV file and answering five business questions with code, then compare your answers with the same questions solved in SQL.

Thinking in columns, not loops

The biggest change when moving from a spreadsheet or a programming loop to pandas is to think about whole columns at once. To add GST to every amount you do not visit each row; you multiply the column. To flag large orders you compare the whole column with a number and get a True or False value for every row. To total revenue by city you group and sum. This column-first thinking makes code shorter and faster, and it matches how SQL works. When you catch yourself writing a for loop over rows, stop and ask whether a column operation, a groupby or a merge would do the same job.

A practice routine for pandas

Week	Focus	Exercise
1	Loading, inspecting, selecting	Load a CSV and answer five questions using filters
2	Groupby and aggregation	Summarise revenue by category and month
3	Merge and reshape	Combine two tables and build a pivot table
4	Dates and cleaning	Parse dates, handle missing values and write a short report

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Frequently Asked Questions

What is pandas used for?

Pandas is a Python library for working with tabular data: loading, cleaning, filtering, grouping, merging, reshaping and summarising.

What is the difference between a Series and a DataFrame?

A Series is a single labelled column of values, while a DataFrame is a table made of several Series sharing one index.

How do I filter rows in pandas?

Use a boolean condition inside square brackets, such as `df[df['amount'] > 300]`, and combine conditions with `&` and `|` in brackets.

How do I avoid wrong results when merging?

Use the `validate` argument, compare row counts before and after and check for unmatched keys.

Is pandas similar to SQL?

Many ideas map directly: select, where, group by, join and order by all have pandas equivalents.

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