

Advanced Python

Python/Excel Basics

Hands on Exercise - Electric Car Sales

The data file `EcarSalesByCountryAndYear2.xlsx` has annual sales of electric cars for selected countries and years. The `.xlsx` has two tabs:

- tab 1: Documentation – title, datasource, date

- tab 2: `EcarSalesByCountryAndYear` – sales data matrix by country and year

In this exercise, you will load electric car sales from the two tabs in the spreadsheet, using `pandas` and `openpyxl`.

Part A: `pandas`

- 1) Use `pandas read_excel()` to read `EcarSalesByCountryAndYear2.xlsx` into a `DataFrame`, then display the `DataFrame`
- 2) Refine the call to `read_excel()` to read tab '`EcarSalesByCountryAndYear`' into a `DataFrame` (use the `sheet_name` parameter)
- 3) Refine the call used in step #2 to set the index to `Country` (use the `sheet_name` and `index_col` parameters)

Part B: `openpyxl`

- 4) Use `openpyxl load_workbook()` to load the workbook
- 5) Access the '`Documentation`' worksheet tab using `workbook[]`
- 6) Access and display the value of cell B2 (the data source for the workbook)