

Multiple Grouped Summaries

The screenshot shows a web browser window with a DataCamp course page. The page title is 'Multiple grouped summaries'. The left sidebar contains the course navigation and the exercise title. The main content area has a description of the exercise, instructions, and a code editor. The code editor shows a Python script for aggregating data by store type. The bottom of the page shows a Windows taskbar with various icons and the system clock.

Exercise

Multiple grouped summaries

Earlier in this chapter, you saw that the `.agg()` method is useful to compute multiple statistics on multiple variables. It also works with grouped data. NumPy, which is imported as `np`, has many different summary statistics functions, including: `np.min`, `np.max`, `np.mean`, and `np.median`.

`sales` is available and `pandas` is imported as `pd`.

Instructions

- Import `numpy` with the alias `np`.
- Get the min, max, mean, and median of `weekly_sales` for each store type using `.groupby()` and `.agg()`. Store this as `sales_stats`. Make sure to use `numpy` functions!
- Get the min, max, mean, and median of `unemployment` and `fuel_price_usd_per_l` for each store type. Store this as `unemp_fuel_stats`.

Take Hint (-30 XP)

```
1 # Import numpy with the alias np
2
3
4 # For each store type, aggregate weekly_sales: get min, max, mean, and median
5 sales_stats = ____
6
7 # Print sales_stats
8 print(sales_stats)
9
10 # For each store type, aggregate unemployment and fuel_price_usd_per_l: get min, max, mean,
11    and median
12 unemp_fuel_stats = ____
13
14 # Print unemp_fuel_stats
15 print(unemp_fuel_stats)
```

Run Code Submit Answer

IPython Shell Slides

We closed your session due to inactivity.
If the problem persists, please report an issue.

Restart Session

Earlier in this chapter, you saw that the `.agg()` method is useful to compute multiple statistics on multiple variables. It also works with grouped data. NumPy, which is imported as `np`, has many different summary statistics functions, including: `np.min`, `np.max`, `np.mean`, and `np.median`.

`sales` is available and `pandas` is imported as `pd`.

Final Answer

```
# Import numpy with the alias np
import numpy as np
```

```
# For each store type, aggregate weekly_sales: get min, max, mean, and
median
sales_stats = sales.groupby("type")["weekly_sales"].agg([np.min, np.max,
np.mean, np.median])
```

```
# Print sales_stats
print(sales_stats)
```

```
# For each store type, aggregate unemployment and fuel_price_usd_per_l:
get min, max, mean, and median
```

```
unemp_fuel_stats = sales.groupby("type")[["unemployment",  
"fuel_price_usd_per_l"]].agg([np.min, np.max, np.mean, np.median])  
  
# Print unemp_fuel_stats  
print(unemp_fuel_stats)
```