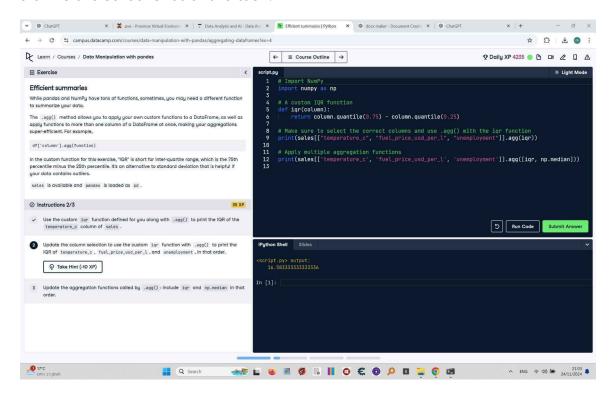
Efficient Summaries with Custom Functions (Updated Solution)

This document includes the question, the solution, and a breakdown of the code provided in the screenshot.

Uploaded Screenshot

Below is the screenshot of the task:



Question

Update the column selection to use the custom `iqr` function with `.agg()` to print the IQR of `temperature_c`, `fuel_price_usd_per_l`, and `unemployment`, in that order.

Answer

Import NumPy import numpy as np

A custom IQR function def iqr(column): return column.quantile(0.75) - column.quantile(0.25)

Aggregate the selected columns using the iqr function

print(sales[['temperature_c', 'fuel_price_usd_per_l',
'unemployment']].agg(iqr))

Code Explanation

Explanation of the code:

- 1. `import numpy as np`: Imports the NumPy library. Even though not needed for this specific part, it's a good practice to import it for later use.
- 2. `def iqr(column):`: Defines a custom function `iqr` to calculate the interquartile range (IQR) of a column by subtracting the 25th percentile from the 75th percentile.
- 3. `sales[['temperature_c', 'fuel_price_usd_per_l', 'unemployment']].agg(iqr)`: Applies the `iqr` function to the selected columns (`temperature_c`, `fuel_price_usd_per_l`, and `unemployment`) in the `sales` DataFrame and prints the results in the specified order.