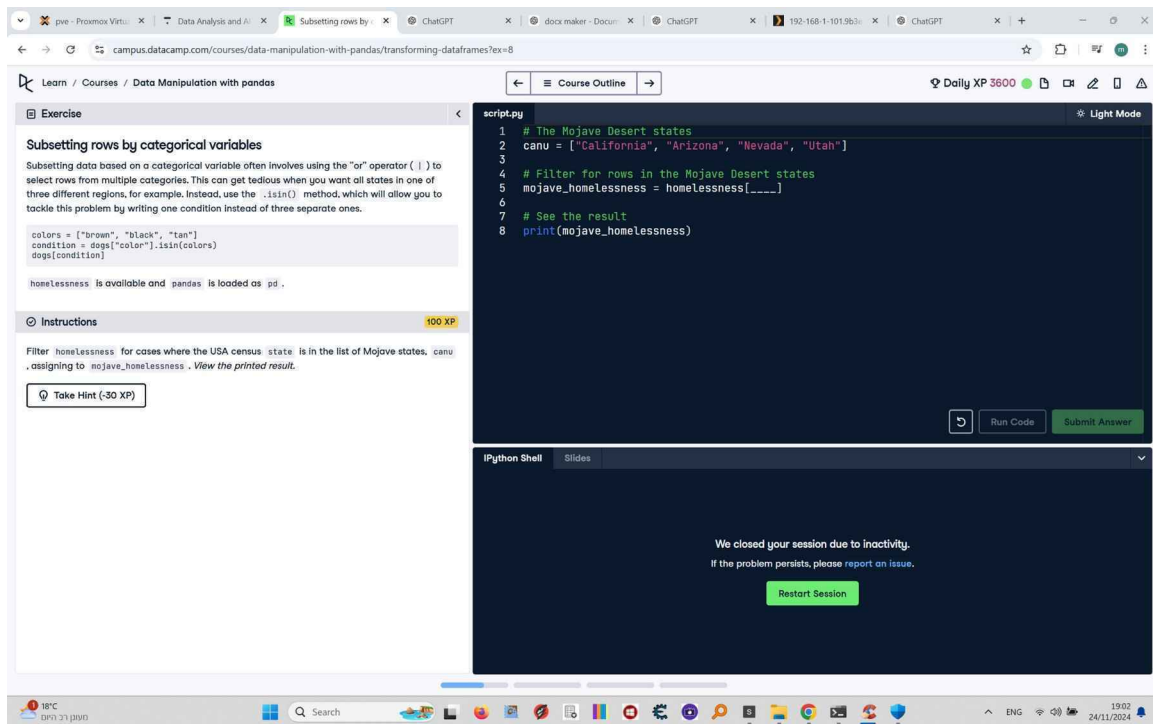


## Subsetting Rows by Categorical Variables

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

Filter `homelessness` for cases where the USA census `state` is in the list of Mojave states, `canu`, assigning the result to `mojave\_homelessness`. View the printed result.

### Answer

```
# The Mojave Desert states
canu = ["California", "Arizona", "Nevada", "Utah"]
```

```
# Filter for rows in the Mojave Desert states
mojave_homelessness = homelessness[homelessness["state"].isin(canu)]
```

```
# See the result
print(mojave_homelessness)
```

## Code Explanation

# Explanation of the code:

1. ``canu = ["California", "Arizona", "Nevada", "Utah"]``: Creates a list of Mojave states to be used for filtering.
2. ``homelessness["state"].isin(canu)``: Checks if each value in the ``state`` column is present in the ``canu`` list, creating a boolean mask.
3. ``homelessness[homelessness["state"].isin(canu)]``: Filters the ``homelessness`` DataFrame to include only rows where the mask is ``True``.
4. ``mojave_homelessness``: Stores the filtered DataFrame for further use.
5. ``print(mojave_homelessness)``: Prints the resulting DataFrame to verify the filter.