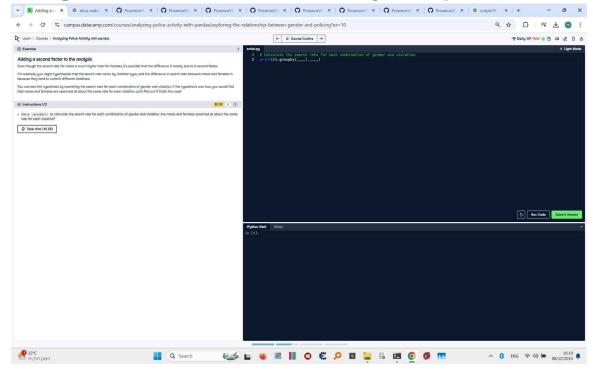
Adding a Second Factor to the Analysis (Updated)



Task Description

- 1. Use a groupby() to calculate the search rate for each combination of violation and gender.
- 2. Analyze whether males and females are searched at about the same rate for each violation type.

Code Solution

Reverse the ordering to group by violation before gender violation_gender_search_rate = ri.groupby(['violation', 'driver_gender']).search_conducted.mean() print(violation_gender_search_rate)

Code Explanation

- 1. The line 'violation_gender_search_rate = ri.groupby(['violation', 'driver_gender']).search_conducted.mean()' groups the DataFrame by both 'violation' and 'driver_gender' columns, then calculates the mean of 'search_conducted' for each group. By grouping first by violation, the results are organized to allow for comparison of search rates within each violation type across genders.
- 2. The line 'print(violation_gender_search_rate)' outputs the calculated search rates to enable analysis of any patterns or differences between genders for each violation.