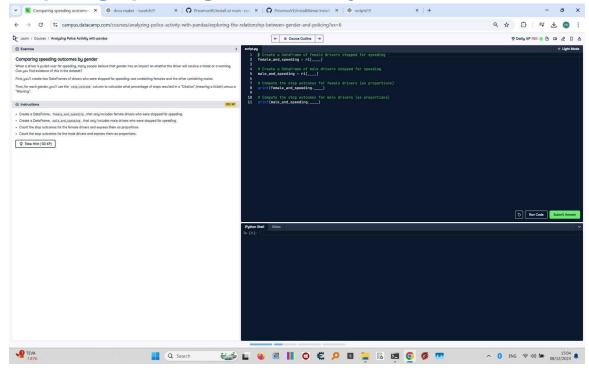
Comparing Speeding Outcomes by Gender



Task Description

- 1. Create a DataFrame, 'female_and_speeding', that only includes female drivers who were stopped for speeding.
- 2. Create a DataFrame, 'male_and_speeding', that only includes male drivers who were stopped for speeding.
- 3. Count the stop outcomes for the female drivers and express them as proportions.
- 4. Count the stop outcomes for the male drivers and express them as proportions.

Code Solution

- # Create a DataFrame of female drivers stopped for speeding female_and_speeding = ri[(ri['driver_gender'] == 'F') & (ri['violation'] == 'Speeding')]
- # Create a DataFrame of male drivers stopped for speeding male_and_speeding = ri[(ri['driver_gender'] == 'M') & (ri['violation'] == 'Speeding')]
- # Compute the stop outcomes for female drivers (as proportions)
 print(female and speeding['stop outcome'].value counts(normalize=True))

Compute the stop outcomes for male drivers (as proportions)
print(male_and_speeding['stop_outcome'].value_counts(normalize=True))

Code Explanation

- 1. The line 'female_and_speeding = $ri[(ri['driver_gender'] == 'F') \& (ri['violation'] == 'Speeding')]'$ filters the DataFrame to include only rows where the driver is female and the violation is speeding.
- 2. The line 'male_and_speeding = $ri[(ri['driver_gender'] == 'M') \& (ri['violation'] == 'Speeding')]'$ filters the DataFrame to include only rows where the driver is male and the violation is speeding.
- 3. The line
- 'print(female_and_speeding['stop_outcome'].value_counts(normalize=True))' calculates the proportion of each type of stop outcome (e.g., Citation, Warning) for female drivers who were stopped for speeding.
- 4. The line
- 'print(male_and_speeding['stop_outcome'].value_counts(normalize=True))' calculates the proportion of each type of stop outcome for male drivers who were stopped for speeding.