

## Filtering by Multiple Conditions

Filtering by multiple conditions

Which one of these commands would filter the `ri` DataFrame to only include female drivers who were stopped for a speeding violation?

Answer the question

Possible Answers

Select one answer

- ☒ `ri[(ri['driver_gender'] == 'F') & (ri['violation'] == 'Speeding')]` PRESS 1
- ☐ `ri[ri['driver_gender'] == 'F'] & ri['violation'] == 'Speeding'` PRESS 2
- ☐ `ri[(ri['driver_gender'] == 'F') & (ri['violation'] == 'Speeding')]` PRESS 3
- ☐ `ri[(ri['driver_gender'] == 'F') | (ri['violation'] == 'Speeding')]` PRESS 4
- ☐ `ri[(ri['driver_gender'] == 'F') and (ri['violation'] == 'Speeding')]` PRESS 5

Take hint (40 XP)

Submit Answer

### Task Description

Which one of these commands would filter the `ri` DataFrame to only include female drivers who were stopped for a speeding violation?

### Correct Answer

The correct answer is:

```
ri[(ri['driver_gender'] == 'F') & (ri['violation'] == 'Speeding')]
```

Explanation:

1. The condition `(ri['driver_gender'] == 'F')` selects rows where the driver is female.
2. The condition `(ri['violation'] == 'Speeding')` selects rows where the violation is speeding.
3. The `'&'` operator ensures that both conditions are met simultaneously for the filtered rows.
4. The entire expression is enclosed in parentheses to correctly evaluate the logical conditions.