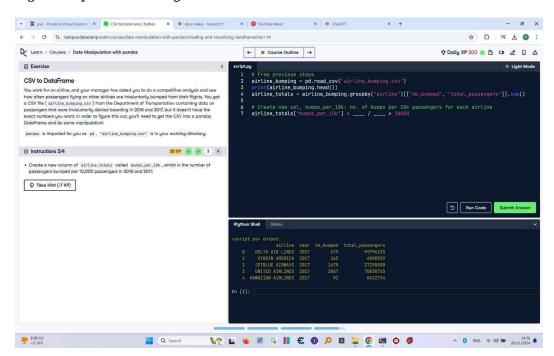
CSV to DataFrame (Add Bumps per 10k Passengers)

In this step, you'll calculate the number of passengers bumped per 10,000 passengers for each airline. This will provide a standardized metric for comparison between airlines.

Instructions:

- 1. Create a new column in `airline totals` called `bumps per 10k`.
- 2. Calculate the number of passengers bumped per 10,000 passengers for each airline.

Original Uploaded Image:



Python Code Implementation:

- # From previous steps
 airline_bumping = pd.read_csv("airline_bumping.csv")
 print(airline_bumping.head())
- # Group by airline and calculate totals
 airline_totals = airline_bumping.groupby("airline")[["nb_bumped",
 "total passengers"]].sum()
- # Create new column, bumps_per_10k: no. of bumps per 10k passengers for each airline

Print the updated DataFrame print(airline totals)

Explanation of Code:

- 1. **Group by airline and calculate totals**: Use `groupby("airline")` and `sum()` to aggregate the total `nb_bumped` and `total_passengers` for each airline.
- 2. **Create a new column**: Add a column `bumps_per_10k` to the `airline_totals` DataFrame. The formula calculates the number of passengers bumped per 10,000 passengers by dividing `nb_bumped` by `total passengers` and multiplying by 10,000.
- 3. **Print the updated DataFrame**: Use `print()` to display the updated DataFrame with the new column.