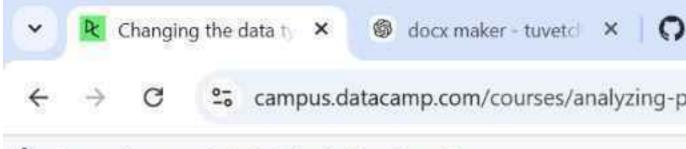
Changing the Data Type to Category



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Exercise

Changing the data type to category

Since the rating column only has a few possible values, you'll change its data type to cate; also specify a logical order for the categories, which will be useful for future exercises.

Instructions

- Create a CategoricalDtype object called cats that lists the weather ratings in a logical that the categories should be treated as ordered.
- Use the cats object to change the data type of the rating column from object to categ
- Examine the head of the rating column to confirm that the categories are logically order

@ Take Hint (-30 XP)

Question:

Since the 'rating' column only has a few possible values, you'll change its data type to

category in order to store the data more efficiently. You'll also specify a logical order

for the categories, which will be useful for future exercises.

Instructions:

- 1. Create a CategoricalDtype object called `cats` that lists the weather ratings in logical order:
- 'good', 'bad', 'worse'. Make sure to specify that the categories should be treated as ordered.
- 2. Use the `cats` object to change the data type of the `rating` column from object to category.
- 3. Examine the head of the `rating` column to confirm that the categories are logically ordered.

Correct Answer:

- # Specify the logical order of the weather ratings cats = pd.CategoricalDtype(['good', 'bad', 'worse'], ordered=True)
- # Change the data type of 'rating' to category
 weather['rating'] = weather['rating'].astype(cats)
- # Examine the head of 'rating'
 print(weather['rating'].head())

Explanation of the Code:

- 1. The `pd.CategoricalDtype` is used to define a new data type for the categorical column.
 - `['good', 'bad', 'worse']`: Defines the order of the categories.
 - `ordered=True`: Specifies that the order should be considered.
- The `astype` method is used to convert the `rating` column into the newly defined categorical data type.
- 3. The `head` method is used to display the first few rows of the `rating` column, allowing

verification that the conversion has been successful and the categories are in the correct logical order.