

Fix ordering with CategoricalDtype

The problem with our previous result is that the order is wrong. Convert the `month-yr` column dtype to a Pandas `CategoricalDtype` with the correct order. You should be able to reproduce the following statement,

```
>>> x.groupby('month-yr')['Timestamp'].count().to_frame().sort_index()
```

	Timestamp
month-yr	
Sep-2017	74
Jan-2018	148
Feb-2018	2
Mar-2018	41
Apr-2018	28
Sep-2018	130
Oct-2018	6
Jan-2019	57

Note that the `groupby` is now sorted correctly. Your function signature is `fix_categorical(x)`. It should take the `month-yr` dataframe column and then return the same dataframe with an updated column of `CategoricalDtype` that does the sorting as described. Remember to include your `add_month_year` code from the previous part, as your new function needs the output from it.

Here is your function signature `fix_categorical(x)` where `x` is a `pd.DataFrame` with the required `"month-yr"` column and output is a `pd.DataFrame` with the `"month-yr"` column having the categorical dtype.

Hint: The autograder runs `fix_categorical(add_month_year(x))`

Please put your Python code in a Python script file and upload it. Please retain your submitted source files! Remember to use all the best practices we discussed in class. You can use any module in the Python standard library, but third-party modules (e.g., Numpy, Pandas) are restricted to those **explicitly** mentioned in the problem description.

Tips:

- After you have submitted your file, do **not** use the browser back or reload buttons to navigate or open the page in multiple browser tabs, as this may cause your `attempts` to decrease unexpectedly. It may take up to thirty seconds for your code to be processed, so please be **patient**.
- If you find yourself back at the main page without any feedback or change in your `attempts` then it means that your code timed out or crashed in some unexpected way.
- Ensure that your development environment does not presume the existence of certain packages for the autograder. The autograder does not have anything other than the standard library and those third-party libraries **explicitly** named in the problem description.
- Do not leave extraneous statements in your code like test cases, print statements, or anything else besides what is needed to evaluate your submission because the the autograder will spend its limited time executing those lines, which may result in unexpected crashes or timeouts.

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