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Setting values on a copy of a slice from a DataFrame [duplicate]

Ask Question



This question already has an answer here:

How to deal with

SettingWithCopyWarning in

Pandas? 11 answers



I have a small dataframe, say this one :

	Mass32	Mass44
12	0.576703	0.496159
13	0.576658	0.495832
14	0.576703	0.495398
15	0.576587	0.494786
16	0.576616	0.494473

I would like to have a rolling mean of column $\,\text{Mass32}\,$, so I do this:

```
x['Mass32s'] = pandas.rolling_mean(x.Mass32, 5).shift(-2)
```

It works as in I have a new column named Mass32s which contains what I expect it to contain but I also get the warning message:

A value is trying to be set on a copy of a slice from a DataFrame. Try using
.loc[row_indexer,col_indexer] = value instead

See the the caveats in the documentation:

http://pandas.pydata.org/pandas-docs/stable/indexing.html#indexing-view-versus-copy

I'm wondering if there's a better way to do it, notably to avoid getting this warning message.

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edited Jul 17 '15 at 16:32



15.4k 3 65 81

asked Jul 17 '15 at 3:58



vincent **110** 1 2 8

marked as duplicate by

coldspeed

pandas

Jan 6 at

17:52

This question has been asked before and already has an answer. If those answers do not fully address your question, please ask a new question.

I don't get the warning message, when I run with your sample code can you check if earlier in your code you've set x as a copy of a data frame, something like x =x[x.Mass32.notnull()] maxymoo Jul 17 '15 at 6:30 🎤

there was a couple of Nas in the dataframe that apparently were messing with me here. Fixing them

with fillna(0) and .loc solved it. Thanks vincent Jul 20 '15 at 5:01

1 Answer



This warning comes because your dataframe x is a copy of a slice.



This is not easy to know why, but it has something to do with how you have come to the current state of it.



You can either create a proper dataframe out of x by doing

x = x.copy()

This will remove the warning, but it is not the proper way

You should be using the DataFrame.loc method, as the warning suggests, like this:

x.loc[:,'Mass32s'] = pandas.rolli

answered Jul 17 '15 at 15:47



firelynx

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messing with me here. Fixing them with fillna(0) and .loc solved it.

Thanks – vincent Jul 20 '15 at 5:01

the first method sometimes works...
the second method method gets me
the following error indexer =
self._get_setitem_indexer(key), in
_get_setitem_indexer raise
IndexingError(key) IndexingError:
(slice(None, None, None), 'Mass32s')
- Lcat Nov 25 '17 at 1:26

1 @Lcat sounds like you have none values in the index of your dataframe. Can you make a new question with some example data? and pass it on to me? – firelynx Nov 27 '17 at 15:05

Why is this method better? – mxbi Aug 25 '18 at 14:19

@mxbi copying the dataframe makes a copy, thus doubles the memory used. Even if you overwrite the variable as in my example x = x.copy(), there will be a spike in memory usage. – firelynx Aug 25 '18 at 19:04

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