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pandas : update value if condition in 3 columns are met

Ask Question



I have a dataframe like this:

```
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```

```
In[1]: df
Out[1]:
     Α
                     C
   blue
                                 NaN
1
            red
                   square
   orange
           yellow
                  circle
                   circle
                                 NaN
  black
           grey
```

and I want to update column D when it meets 3 conditions. Ex:

It works for the first two conditions, but it doesn't work for the third, thus:

```
df.ix[ np.logical_and(df.A=='blue', df.B=='red', df.C=='triangle'), ['D'] ] =
'succeed'
```

has exactly the same result:

```
In[1]: df
Out[1]:
             R
                     C
                                  D
   blue
            red
                   square
                                 succeed
  orange yellow
                  circle
                                 NaN
3 black
           grey
                   circle
                                 NaN
```

python pandas

asked Jan 21 '14 at 15:57



Eduardo Oliveira 126 1 3 4

```
1 does df.ix[(df.A=='blue') &
    (df.B=='red') &
    (df.C=='square'),'D']='success
' work? - EdChum Jan 21'14 at
16:03
```

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You could try this instead:

df[(df.A=='blue') & (df.B=='red')



answered Jan 21 '14 at 16:02



914 2 13 35

Yes, it works. Though I still don't get the difference between "numpy.logical_and" and "&". Thank you - Eduardo Oliveira Jan 21 '14 at 16:30

also you can use or in a query like df[(df.A=='blue') | (df.B=='red')] - Tim Jan 21 '14 at 17:11

- 16 If getting warning A value is trying to be set on a copy of a slice from a DataFrame. while using above solution then do this: df.loc[(df.A=='blue') & (df.B=='red') & (df.C=='square'), 'D'] = 'succeed' - Shams Mar 15 '17 at 5:57
- Iget the A value is trying to be set on a copy of a slice from a DataFrame. error aa well. Is there another method to do this? -Meghna Natraj Jul 2 '17 at 3:40 🎤
- Just as a side note to anyone who runs into this and thinks they're going to trim it down...you MUST have the parentheses around the conditions or operator precedence will cause issues. Voice of experience. :-P -Brent Writes Code Apr 2 '18 at 2:45



Using

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df[(df.A=='blue') & (df.B=='red')



Gives below warning

/usr/local/lib/python2.7/dist-pack SettingWithCopyWarning: A value **is** trying to be set on a c Try using .loc[row_indexer,col_ind

Better way of achieving this seems to

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answered Aug 12 '17 at 14:38



1 df.loc is much faster way than the previous one. – R.K. Apr 19 '18 at 18:36



You could try:

df['D'] = np.where((df.A=='blue')



This answer might provide a detailed answer to the your question: <u>Update</u> row values where certain condition is met in pandas

edited Nov 1 '17 at 10:41



Aryan Firouzian 1,102 5 17 26

answered Nov 1 '17 at 10:04





The third parameter of <u>logical_and</u> is to assign the array used to store the result.



Currently, the method @TimRich provided might be the best. In pandas 0.13 (in development), there's a new experimental <u>query</u> method. Try it!

answered Jan 21 '14 at 16:56



waitingkuo

38.6k 17 87 100

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