

## Pandas DataFrame to list

I am pulling a subset of data from a column based on conditions in another column being met.

I can get the correct values back but it is in pandas.core.frame.DataFrame. How do I convert that to list?


```
import pandas as pd

tst = pd.read_csv('C:\\SomeCSV.csv')

lookupValue = tst['SomeCol'] == "SomeValue"
ID = tst[lookupValue]['SomeCol']
#How To convert ID to a list
```

python pandas tolist

asked May 20 '14 at 0:00

 [user3646105](#)  
348 1 5 12

7 I am hesitant to edit a question this old and with so many views, but it should be pointed out that although the title talks about a "dataframe to list", the question is about a "series to list". And note that while `tst` is a dataframe, `tst['SomeCol']` is a series. The distinction matters in that the `tolist()` method works directly on a series, but not on a dataframe. – [JohnE](#) Dec 7 '16 at 14:36

## 4 Answers

Use `.values` to get a `numpy.array` and then `.tolist()` to get a list.

For example:

```
import pandas as pd
df = pd.DataFrame({'a': [1, 3, 5, 7, 4, 5, 6, 4, 7, 8, 9],
                   'b': [3, 5, 6, 2, 4, 6, 7, 8, 7, 8, 9]})
```

Result:

```
>>> df['a'].values.tolist()
[1, 3, 5, 7, 4, 5, 6, 4, 7, 8, 9]
```


or you can just use

```
>>> df['a'].tolist()
[1, 3, 5, 7, 4, 5, 6, 4, 7, 8, 9]
```

To drop duplicates you can do one of the following:

```
>>> df['a'].drop_duplicates().values.tolist()
[1, 3, 5, 7, 4, 6, 8, 9]
>>> list(set(df['a'])) # as pointed out by EdChum
[1, 3, 4, 5, 6, 7, 8, 9]
```

edited Aug 20 '16 at 14:46

 [zhq0907](#)  
54 8

answered May 20 '14 at 0:09

 [Akavall](#)  
31k 20 107 149

Thanks that works! I want to delete the duplicates out of the ID list. I tried using `set(ID)` but gives an error saying `TypeError: unhashable type: 'list'` – [user3646105](#) May 20 '14 at 0:18

you can just do `list(set(df['a']))` – [EdChum](#) May 20 '14 at 7:02

@EdChum, Thanks, that's definitely better. – [Akavall](#) May 20 '14 at 14:58

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