

Count the number of rows and columns of a Pandas dataframe

You can try different methods to get the number of rows and columns of the dataframe:

- len(df)
- len(df.index)
- df.shape[0]
- df[df.columns[0]].count()
- df.count()
- df.size

First let's create a data frame with values.

```
import pandas as pd
import numpy as np
df = pd.DataFrame()
df['Name'] = ['John', 'Doe', 'Bill', 'Jim', 'Harry', 'Ben']
df['TotalMarks'] = [82, 78, 65, 77, 55, 48]
df['Grade'] = ['A', 'B', 'B', 'C', 'C', 'D']
df['Promoted'] = [True, False, True, False, True, True]
df
```

	Name	TotalMarks	Grade	Promoted
0	John	82	A	True
1	Doe	78	B	False
2	Bill	65	B	True
3	Jim	77	C	False
4	Harry	55	C	True
5	Ben	48	D	True

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Pandas DataFrame row count

Using len()

You can use **len()** method to find the number of rows in dataframe.

```
row_count = len(df) # Return number of rows
row_count

6
```

Or

```
row_count = len(df.index) # Return number of rows
row_count

6
```

Using shape[0]

```
row_count = df.shape[0]
row_count

6
```

Another method:

```
row_count = df[df.columns[0]].count()
row_count

6
```

Get Pandas DataFrame column count

Using shape[1]

```
col_count = df.shape[1]
col_count

4
```

Using len()

```
col_count = len(df.columns)
col_count

4
```

Pandas DataFrame column with row count

```
count = df.count()
count

Name          6
TotalMarks    6
Grade         6
Promoted      6
dtype: int64
```

Total number of rows and column in DataFrame

```
df.size

24
```

Next : Use a list of values to select rows from a pandas dataframe

Creating an empty Pandas DataFrame
How to Check if a Pandas DataFrame is Empty
How to check if a column exists in Pandas DataFrame
How to delete column from pandas DataFrame
How to select multiple columns from Pandas DataFrame
Selecting multiple columns in a Pandas dataframe based on condition
Selecting rows in pandas DataFrame based on conditions
How to Drop rows in DataFrame by conditions on column values
How to rename columns in Pandas DataFrame
Get a List of all Column Names in Pandas DataFrame
How to add new columns to Pandas dataframe?
Change the order of columns in Pandas dataframe
Concatenate two columns into a single column in pandas dataframe
Use a list of values to select rows from a pandas dataframe
How to iterate over rows in a DataFrame in Pandas
How to drop rows/columns of Pandas DataFrame whose value is NaN
How to Export Pandas DataFrame to a CSV File
Convert list of dictionaries to a pandas DataFrame
How to set a particular cell value in pandas DataFrame

