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How to rename multiple column headers in a Pandas DataFrame?

Difficulty Level : Easy • Last Updated : 25 May, 2022

Here we are going to rename multiple column headers using **rename()** method. The rename method is used to rename a single column as well as rename multiple columns at a time. And pass columns that contain the new values and inplace = true as an argument. We pass inplace = true because we just modify the working data frame if we pass inplace = false then it returns a new data frame.

Way 1: Using rename() method

- 1. Import pandas.
- 2. Create a data frame with multiple columns.
- 3. Create a dictionary and set key = old name, value= new name of columns header.
- 4. Assign the dictionary in columns.
- 5. Call the rename method and pass columns that contain dictionary and inplace=true as an argument.

Example:

Python

import pandas
import pandas as pd

create data frame



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Output:

AD

				First Nam	e L	_ocation	Pay
			٥	Medz	ار د	harannur	E6000 0
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			3	Vedans	h Sal		45000.0
			4	Krishn	а	Noida	62000.0
				Name		City	Salary
			0	Mukul	Sahar	anpur 5	6000.0
			1	Rohan	Ra	ampur 5	5000.0
			2	Mayank		Agra 6	1000.0
			3	Vedansh	Sahar	anpur 4	5000.0
			4	Krishna		Noida 6	2000.0

Example 2:

In this example, we will rename the multiple times using the same approach.

Python3

```
# import pandas
import pandas as pd
# create data frame
df = pd.DataFrame({'First Name': ["Mukul", "Rohan", "Mayank",
                                   "Vedansh", "Krishna"],
                   'Location': ["Saharanpur", "Rampur",
                                 "Agra", "Saharanpur", "Noida"],
                   'Pay': [56000.0, 55000.0, 61000.0, 45000.0, 62000.0]})
print("Original DataFrame")
# print original data frame
display(df)
# create a dictionary
# key = old name
# value = new name
dict = {'First Name': 'Name',
        'Location': 'City',
        'Pav': 'Salarv'}
```

```
# call rename () method
df.rename(columns=dict,
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# prine paca mame ancer remaine corumns
display(df)
# create a dictionary
# key = old name
# value = new name
dict = {'Name': 'Full Name',
        'City': 'Address',
        'Salary': 'Amount'}
# call rename () method
df.rename(columns=dict,
          inplace=True)
display(df)
```

Output:

Orignal DataFrame

	Read	Discuss	Courses	s Pract	tice Vide	:O	
			0	Mukul	Saharanp	ur 5	6000.0
			1	Rohan	Ramp	ur 5	5000.0
			2	Mayank	Ag	ra 6	1000.0
			3	Vedansh	Saharanp	ur 4	5000.0
			4	Krishna	Noic	da 6	2000.0
			After	rename	5		
				Nama	City	٥-	l
				Name	City	Sa	lary
			0	Mukul S	Saharanpur	560	0.00
			1	Rohan	Rampur	550	0.00

	2	Mayank	Agra	61000.0		
Data Structures and Algorithms		Interview P	reparation	Data Scien	ce Topic-wise Practice	C++
	4	Krishna	Noida	62000.0		

	Full Name	Address	Amount
0	Mukul	Saharanpur	56000.0
1	Rohan	Rampur	55000.0
2	Mayank	Agra	61000.0
3	Vedansh	Saharanpur	45000.0
4	Krishna	Noida	62000.0

Way 2: Using index

One must follow the below steps as listed in sequential order prior to landing upon implementation part as follows:

2. Create a data frame with multiple columns.

```
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```

5. Print the dataframe.

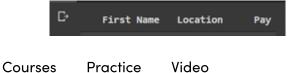
Example

Python3

Output:

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Mayank Agra 61000.0 Vedansh Saharanpur 45000.0 3 Krishna Noida 62000.0 address name Pay Mukul Saharanpur 56000.0 Rampur 55000.0 Mayank Agra 61000.0 Vedansh Saharanpur 45000.0 Krishna Noida 62000.0

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