

# How can I rename the rows in a Pandas DataFrame?

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## RECOMMENDED CITATION

stats writer (2024). *How can I rename the rows in a Pandas DataFrame?*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=152201>

Renaming rows in a Pandas DataFrame can be achieved by using the `rename()` function. This function allows users to provide a new index or label for the rows in the DataFrame. The syntax for this function is `df.rename(index=new_index)`, where `df` is the name of the DataFrame and `new_index` is the new index or label for the rows. This process can be useful when working with large datasets and wanting to organize or clarify the row labels. By using the `rename()` function, users can easily change the row names in a Pandas DataFrame to better suit their needs.

## Rename the Rows in a Pandas DataFrame

You can use one of the following methods to rename the rows in a pandas DataFrame:

### Method 1: Rename Rows Using Values from Existing Column

```
df = df.set_index('some_column', drop=False).rename_axis(None)
```

### Method 2: Rename Rows Using Values from Dictionary

```
row_names = {'old_name0': 'new_name0',  
'old_name1': 'new_name1',  
'old_name2': 'new_name2'}
```

```
df = df.rename(index = row_names)
```

The following examples shows how to use each method in practice with the following pandas DataFrame:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'points': ,
'assists': ,
'rebounds': })

#view DataFrame
print(df)

team points assists rebounds
0 A 18 5 11
1 B 22 7 8
2 C 19 7 10
3 D 14 9 6
4 E 14 12 6
5 F 11 9 5
6 G 20 9 9
7 H 28 4 12
```

### Example 1: Rename Rows Using Values from Existing Column

Currently the rows of the DataFrame are labeled from 0 to 7.

We can use the following syntax to rename the rows using the values from the team column:

```
import pandas as pd
```

```
#rename rows using values in the team column
```

```
df = df.set_index('team',  
drop=False).rename_axis(None)
```

```
#view updated DataFrame
```

```
print(df)
```

```
team points assists rebounds
```

```
A A 18 5 11
```

```
B B 22 7 8
```

```
C C 19 7 10
```

```
D D 14 9 6
```

```
E E 14 12 6
```

```
F F 11 9 5
```

```
G G 20 9 9
```

```
H H 28 4 12
```

Notice that the rows are now labeled from A to H, which match the values from the team column.

If you would like to drop the team column from the DataFrame when renaming the rows, you can remove the argument `drop=False` from the `set_index()` function:

```
import pandas as pd
```

```
#rename rows using values in the team column and  
drop team column
```

```
df = df.set_index('team').rename_axis(None)
```

```
#view updated DataFrame
```

```
print(df)
```

```
points assists rebounds
```

```
A 18 5 11
```

```
B 22 7 8
```

```
C 19 7 10
```

```
D 14 9 6
```

```
E 14 12 6
```

```
F 11 9 5
```

```
G 20 9 9
```

```
H 28 4 12
```

Notice that the rows are labeled from A to H and the team column has been dropped entirely.

## Example 2: Rename Rows Using Values from Dictionary

We could also define a dictionary that specifies the new row labels for the DataFrame:

```
import pandas as pd
```

```
#define new row names
```

```
row_names = {0:'Zero',
```

```
1:'One',
```

```
2:'Two',
```

```
3:'Three',
```

```
4:'Four',
```

```
5:'Five',
```

```
6:'Six',
```

```
7:'Seven']
```

```
#rename values in index using dictionary called  
row_names
```

```
df = df.rename(index = row_names)
```

```
#view updated DataFrame
```

```
print(df)
```

```
team points assists rebounds
```

```
Zero A 18 5 11
```

**One B 22 7 8**

**Two C 19 7 10**

**Three D 14 9 6**

**Four E 14 12 6**

**Five F 11 9 5**

**Six G 20 9 9**

**Seven H 28 4 12**

**Notice the row names of the DataFrame now match those that we specified in the dictionary.**

**The following tutorials explain how to perform other common operations in pandas:**