

How can I replace multiple values in one column using Pandas?

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June 26, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I replace multiple values in one column using Pandas?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=154086>

Pandas is a popular library in Python used for data analysis and manipulation. It provides various functions to efficiently modify and update data in a DataFrame. One common task is to replace multiple values in a single column of a DataFrame. This can be achieved by using the "replace" function in Pandas, which allows for replacing specified values with desired values. By specifying the column name and a dictionary mapping the old values to new values, multiple replacements can be performed in one go. This offers a convenient and efficient way to clean and update data in a DataFrame.

Pandas: Replace Multiple Values in One Column

You can use the following basic syntax to replace multiple values in one column of a pandas DataFrame:

```
df = df.replace({'my_column' : {'old1' : 'new1', 'old2' : 'new2', 'old3' : 'new3'}})
```

The following example shows how to use this syntax in practice.

Example: Replace Multiple Values in One Column in Pandas

Suppose we have the following pandas DataFrame that contains information about various basketball players:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'position': ,  
'points': ,
```

```
'rebounds': ,  
'assists': })
```

```
#view DataFrame
```

```
print(df)
```

```
position points rebounds assists
```

```
0 G 28 5 10
```

```
1 G 17 6 13
```

```
2 F 19 4 7
```

```
3 F 14 7 8
```

```
4 F 23 14 4
```

```
5 C 26 12 5
```

```
6 C 5 9 8
```

Suppose we would like to make the following replacements in the position column:

Replace 'G' with 'Guard'
Replace 'F' with 'Forward'
Replace C with 'Center'

We can use the following syntax to do so:

```
#replace multiple values in position column
```

```
df = df.replace({'position' : {'G' : 'Guard', 'F' : 'Forward',
```

```
'C' : 'Center'}})
```

```
#view updated DataFrame
```

```
print(df)
```

```
position points rebounds assists
```

```
0 Guard 28 5 10
```

```
1 Guard 17 6 13
```

```
2 Forward 19 4 7
```

```
3 Forward 14 7 8
```

```
4 Forward 23 14 4
```

```
5 Center 26 12 5
```

```
6 Center 5 9 8
```

Notice that multiple values have been replaced in the position column.

We can use similar syntax to replace multiple values in a numeric column.

For example, the following code shows how to make the following replacements in the assists column:

```
Replace 10 with 20 Replace 13 with 15 Replace 8 with 10
```

We can use the following syntax to do so:

```
#replace multiple values in assists column  
df = df.replace({'assists' : {10:20, 13:15, 8:10}})
```

```
#view updated DataFrame  
print(df)
```

```
position points rebounds assists
```

```
0 G 28 5 20
```

```
1 G 17 6 15
```

```
2 F 19 4 7
```

```
3 F 14 7 10
```

```
4 F 23 14 4
```

```
5 C 26 12 5
```

```
6 C 5 9 10
```

Notice that multiple values have been replaced in the assists column.

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

[How to Replace NaN Values with Zeros in Pandas](#)