

How can I count the occurrences of a specific value in a column using Pandas?

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Pandas is a popular data analysis library in Python that provides powerful tools for manipulating and analyzing data. One useful feature of Pandas is the ability to count the occurrences of a specific value in a column. This can be achieved by using the "value_counts()" function, which returns a series containing the frequency of each unique value in the column. This function can be applied to a specific column in a Pandas dataframe, allowing for efficient and accurate counting of occurrences. This feature is particularly useful for data analysis and can help in identifying patterns and trends within a dataset.

Pandas: Count Occurrences of Specific Value in Column

You can use the following syntax to count the occurrences of a specific value in a column of a pandas DataFrame:

```
df.value_counts()
```

Note that value can be either a number or a character.

The following examples show how to use this syntax in practice.

Example 1: Count Occurrences of String in Column

The following code shows how to count the number of occurrences of a specific string in a column of a pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

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

```
#count occurrences of the value 'B' in the 'team' column  
df.value_counts()
```

```
4
```

From the output we can see that the string 'B' occurs 4 times in the 'team' column.

Note that we can also use the following syntax to find how frequently each unique value occurs in the 'team' column:

```
#count occurrences of every unique value in the 'team'  
column  
df.value_counts()
```

```
B 4
```

```
A 2
```

```
C 2
```

Name: team, dtype: int64

Example 2: Count Occurrences of Numeric Value in Column

The following code shows how to count the number of occurrences of a numeric value in a column of a pandas DataFrame:

```
import pandas as pd

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

#count occurrences of the value 9 in the 'assists'
column
df.value_counts()

3
```

From the output we can see that the value 9 occurs 3 times in the 'assists' column.

We can also use the following syntax to find how

frequently each unique value occurs in the 'assists' column:

```
#count occurrences of every unique value in the 'assists' column  
df.value_counts()
```

9 3

7 2

5 1

12 1

4 1

Name: assists, dtype: int64

From the output we can see:

The value 9 occurs 3 times. The value 7 occurs 2 times. The value 5 occurs 1 time.

And so on.

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