

# How can I use Pandas to return the row with the maximum value in a particular column?

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## RECOMMENDED CITATION

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Pandas is a Python library designed for data manipulation and analysis. One of its useful functions is the ability to return the row with the maximum value in a specific column. This can be achieved by using the "idxmax" method, which returns the index label of the maximum value in the column. Once the index label is obtained, the row can be retrieved using the "iloc" method. This allows for easy and efficient extraction of the row with the highest value, providing valuable insights and analysis in data exploration.

## **Pandas: Return Row with Max Value in Particular Column**

**You can use the following methods to return the row of a pandas DataFrame that contains the max value in a particular column:**

### **Method 1: Return Row with Max Value**

```
df == df.max()]
```

### **Method 2: Return Index of Row with Max Value**

```
df.idxmax()
```

**The following examples show 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 28 9 9  
7 H 20 4 12
```

#### Example 1: Return Row with Max Value

The following code shows how to return the row in the DataFrame with the max value in the points column:

```
#return row with max value in points column  
df == df.max()]
```

**team points assists rebounds**

**6 G 28 9 9**

The max value in the points column was 28, so the row that contained this value was returned.

**Example 2: Return Index of Row with Max Value**

The following code shows how to return only the index of the row with the max value in the points column:

```
#return row that contains max value in points column  
df.idxmax()
```

**6**

The row in index position 6 contained the max value in the points column, so a value of 6 was returned.

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