

# How to use the “OR” operator in Pandas with examples?

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The "OR" operator in Pandas is a logical operator used to combine two or more conditions in a single statement. It allows for the creation of more complex filters and helps in data analysis and manipulation. To use the "OR" operator in Pandas, the "|" symbol is used between the conditions. For example, if we have a dataframe with columns "Age" and "Gender", we can use the "OR" operator to filter for individuals who are either above 25 years of age or are female. The syntax for this would be: `df > 25) | (df == "Female")]`. This will return a dataframe with rows that satisfy either of the two conditions. In summary, the "OR" operator in Pandas provides a powerful way to filter and manipulate data based on multiple conditions.

## Use "OR" Operator in Pandas (With Examples)

You can use the | symbol as an "OR" operator in pandas.

For example, you can use the following basic syntax to filter for rows in a pandas DataFrame that satisfy condition 1 or condition 2:

```
df
```

The following examples show how to use this "OR" operator in different scenarios.

**Example 1: Use "OR" Operator to Filter Rows Based on Numeric Values in Pandas**

**Suppose we have 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 25 5 11
```

```
1 A 12 7 8
```

```
2 B 15 7 10
```

```
3 B 14 9 6
```

```
4 B 19 12 6
```

```
5 B 23 9 5
```

```
6 C 25 9 9
```

```
7 C 29 4 12
```

We can use the following syntax to filter for rows in the DataFrame where the value in the points column is greater than 20 or the value in the assists column is equal to 9:

```
#filter rows where points > 20 or assists = 9df
```

**team points assists rebounds**

**0 A 25 5 11**

**3 B 14 9 6**

**5 B 23 9 5**

**6 C 25 9 9**

**7 C 29 4 12**

The only rows returned are the ones where the points value is greater than 20 or the assists value is equal to 9.

Example 2: Use "OR" Operator to Filter Rows Based on String Values in Pandas

Suppose we have the following pandas DataFrame:

```
import pandas as pd

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

#view DataFrame
print(df)
```

**team position conference points**

**0 A G W 11**

**1 B G W 8**

**2 C F W 10**

**3 D F W 6**

**4 E C E 6**

**5 F F E 5**

**6 G C E 9**

**7 H C E 12**

We can use the following syntax to filter for rows in the DataFrame where the value in the position column is equal to G or the value in the position column is equal to F or the value in the team column is equal to H:

**#filter rows based on string valuesdf**

**team position conference points**

**0 A G W 11**

**1 B G W 8**

**2 C F W 10**

**3 D F W 6**

**5 F F E 5**

**7 H C E 12**

**The only rows returned are the ones that meet at least one of the three conditions that we specified.**

**Additional Resources**

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