

# Does the value exist in the column?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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This statement is used to determine whether a specific value is present in a designated column. It is commonly used in data analysis and database management to check for the presence of a particular data point or to filter out relevant information. By using this query, one can efficiently identify the existence of a value in a specific column, allowing for more accurate and targeted data retrieval.

## **Pandas: Check if Value Exists in Column**

**You can use the following methods to check if a particular value exists in a column of a pandas DataFrame:**

### **Method 1: Check if One Value Exists in Column**

**22 in df.values**

### **Method 2: Check if One of Several Values Exist in Column**

**df.isin().any()**

**The following examples show how to use each method in practice with the following 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: Check if One Value Exists in Column**

The following code shows how to check if the value 22 exists in the points column:

```
#check if 22 exists in the 'points' column  
22 in df.values
```

## True

The output returns True, which tells us that the value 22 does exist in the points column.

We can use the same syntax with string columns as well.

For example, the following code shows how to check if the string 'J' exists in the team column:

```
#check if 'J' exists in the 'team' column  
'J' in df.values
```

## False

The output returns False, which tells us that the string 'J' does not exist in the team column.

### Example 2: Check if One of Several Values Exist in Column

The following code shows how to check if any of the values in the list exist in the points column:

```
#check if 44, 45 or 22 exist in the 'points' column  
df.isin().any()
```

## True

The output returns True, which tells us that at least one of the values in the list exists in the points column of the DataFrame.

We can use the same syntax with string columns as well.

For example, the following code shows how to check if any string in the list exists in the team column:

```
#check if J, K, or L exists in the 'team' column  
df.isin().any()  
False
```

The output returns False, which tells us that none of the strings in the list exist in the team column.

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