

How to Check if Cell is Empty in Pandas DataFrame

Authored by
stats writer

November 30, 2025

RECOMMENDED CITATION

stats writer (2025). *How to Check if Cell is Empty in Pandas DataFrame*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=102097>

To check if a cell is empty in a Pandas DataFrame, one can use the `isna()` function to check if it contains a null value or not. If the cell is empty, the `isna()` function will return `true`. Otherwise, the `isna()` function will return `false`. This can be used to determine if a cell is empty or not in a Pandas DataFrame.

You can use the following basic syntax to check if a specific cell is empty in a pandas DataFrame:

```
#check if value in first row of column 'A' is empty  
print(pd.isnull(df.loc))
```

```
#print value in first row of column 'A'  
print(df.loc)
```

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

Example: Check if Cell is Empty in Pandas DataFrame

Suppose we have the following pandas DataFrame:

```
import pandas as pd  
import numpy as np  
  
#create DataFrame  
df = pd.DataFrame({'team': ,  
'points': ,  
'assists': ,  
'rebounds': })  
  
#view DataFrame  
df  
  
team points assists rebounds  
0 A 18.0 5.0 11.0  
1 B NaN 7.0 8.0  
2 C 19.0 7.0 10.0  
3 D 14.0 9.0 6.0  
4 E 14.0 NaN 6.0  
5 F 11.0 9.0 5.0  
6 G 20.0 9.0 9.0  
7 H 28.0 4.0 NaN
```

We can use the following code to check if the value in row index number **one** and column **points** is null:

```
#check if value in index row 1 of column 'points' is empty  
print(pd.isnull(df.loc
```

```
)
```

True

A value of **True** indicates that the value in row index number one of the "points" column is indeed empty.

We can also use the following code to print the actual value in row index number one of the "points" column:

```
#print value in index row 1 of column 'points'  
print(df.loc
```

```
)
```

nan

The output tells us that the value in row index number one of the "points" column is **nan**, which is equivalent to an empty cell.