

# “Is it possible to check if a cell is empty in a Pandas DataFrame?”

Authored by  
**stats writer**

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## RECOMMENDED CITATION

stats writer (2024). “Is it possible to check if a cell is empty in a Pandas DataFrame?”. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=161210>

The question "Is it possible to check if a cell is empty in a Pandas DataFrame?" refers to the ability to determine if a specific cell within a Pandas DataFrame, which is a data structure used for data analysis in Python, does not contain any value. This inquiry is relevant for data manipulation and cleaning purposes, as well as for ensuring data accuracy and quality. The answer to this question can be found through various methods and functions available in Pandas, which allow for the identification and handling of empty cells in a DataFrame.

## Check if Cell is Empty in 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  
emptyprint(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.**

**Additional Resources**

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