

How can I get the column name by its index in Pandas?

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Pandas is a popular library used for data analysis and manipulation in Python. It provides a convenient way to access and manipulate data in tabular form through the use of data structures called DataFrames. One common task in working with DataFrames is retrieving the name of a column by its index. This can be achieved by using the "columns" attribute of the DataFrame, which returns a list of column names in the order they appear in the DataFrame. By accessing the desired index of this list, the corresponding column name can be retrieved. This functionality allows for easier and more efficient navigation and manipulation of data within a DataFrame in Pandas.

Pandas: Get Column Name by Index

You can use the following methods to get a column name by index position in pandas:

Method 1: Get One Column Name by Index Position

```
#get column name in index position 2  
colname = df.columns
```

Method 2: Get Multiple Column Names by Index Positions

```
#get column names in index positions 2 and 4  
colname = df.columns]
```

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': ,  
'steals': ,  
'blocks': })
```

#view DataFrame

```
print(df)
```

```
team points assists rebounds steals blocks
```

```
0 A 18 5 11 4 1
```

```
1 B 22 7 8 3 0
```

```
2 C 19 7 10 3 0
```

```
3 D 14 9 6 2 3
```

```
4 E 14 12 6 5 2
```

```
5 F 11 9 5 4 2
```

```
6 G 20 9 9 3 1
```

```
7 H 28 4 12 8 5
```

Example 1: Get One Column Name by Index Position

The following code shows how to get the column name for the column in index position 2 of the DataFrame:

```
#get column name for column in index position 2  
colname = df.columns
```

```
#display column name  
print(colname)
```

assists

The column name for the column in index position 2 is assists.

Note: Column index values start at 0 in Python. Thus, the column in index position 2 would be the third column in the DataFrame, which has the name assists.

Example 2: Get Multiple Column Names by Index Positions

The following code shows how to get the column names for the columns in index positions 2 and 4 of the DataFrame:

```
#get column names in index positions 2 and 4  
colname = df.columns[
```

```
#display column names  
print(colname)
```

Index(, dtype='object')

From the output we can see:

The column name for the column in index position 2 is assists. The column name for the column in index position 4 is steals.

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

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