

How can I select columns by name in Pandas?

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Pandas is a popular library in Python used for data manipulation and analysis. One of its key features is the ability to select columns by name from a dataset. This allows users to easily retrieve specific columns of data for further analysis or manipulation. To select columns by name in Pandas, the user can use the "loc" function followed by the column names they wish to select. This function allows for flexible and precise selection of columns, making data analysis more efficient and accurate. Additionally, Pandas also offers various methods for selecting columns based on different criteria, providing users with a wide range of options for data exploration and manipulation.

Select Columns by Name in Pandas (3 Examples)

You can use the following methods to select columns by name in a pandas DataFrame:

Method 1: Select One Column by Name

`df.loc`

Method 2: Select Multiple Columns by Name

`df.loc[]`

Method 3: Select Columns in Range by Name

`df.loc`

The following examples show how to use each of these methods in practice with the following pandas

DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'mavs': ,  
'cavs': ,  
'hornets': ,  
'spurs': ,  
'nets': })
```

```
#view DataFrame
```

```
print(df)
```

```
mavs cavs hornets spurs nets
```

```
0 10 18 5 10 10
```

```
1 12 22 7 12 14
```

```
2 14 19 7 14 25
```

```
3 15 14 9 13 22
```

```
4 19 14 12 13 25
```

```
5 22 11 9 19 17
```

```
6 27 20 14 22 12
```

Example 1: Select One Column by Name

The following code shows how to select the 'spurs'

column in the DataFrame:

```
#select column with name 'spurs'
```

```
df.loc
```

```
0 10
```

```
1 12
```

```
2 14
```

```
3 13
```

```
4 13
```

```
5 19
```

```
6 22
```

```
Name: spurs, dtype: int64
```

Only the values from the 'spurs' column are returned.

Example 2: Select Multiple Columns by Name

The following code shows how to select the cavs, spurs, and nets columns in the DataFrame:

```
#select columns with names cavs, spurs, and nets
```

```
df.loc]
```

```
cavs spurs nets
```

```
0 18 10 10
```

```
1 22 12 14
2 19 14 25
3 14 13 22
4 14 13 25
5 11 19 17
6 20 22 12
```

Only the values from the `cavs`, `spurs`, and `nets` columns are returned.

Example 3: Select Columns in Range by Name

The following code shows how to select all columns between the names 'hornets' and 'nets' in the DataFrame:

```
#select all columns between hornets and nets
df.loc
```

```
hornets spurs nets
0 5 10 10
1 7 12 14
2 7 14 25
3 9 13 22
4 12 13 25
```

5 9 19 17

6 14 22 12

All of the columns between the names 'hornets' and 'nets' are returned.

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

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