How can I convert a Pandas pivot table to a DataFrame?

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A Pandas pivot table can be converted to a DataFrame by using the .reset_index() method. This method will transform the pivot table into a regular DataFrame, with the pivot table's index as a column and the pivot table's values as a new column. This allows for easier manipulation and analysis of the data in a tabular format. Additionally, the .pivot_table() function can also be used to directly create a DataFrame from the original data, rather than converting a pivot table.

Convert Pandas Pivot Table to DataFrame

You can use the following syntax to convert a pandas pivot table to a pandas DataFrame:

df = pivot_name.reset_index()

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

Example: Convert Pivot Table to DataFrame

Suppose we have the following pandas DataFrame:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'position': ,
'points': })

#view DataFrame
```

```
df

team position points
0 A G 11
1 A G 8
2 A F 10
3 A F 6
4 B G 6
5 B G 5
6 B F 9
7 B F 12
```

We can use the following code to create a pivot table that displays the mean points scored by team and position:

```
#create pivot table
df_pivot = pd.pivot_table(df, values='points', index='team', columns='position')

#view pivot table
df_pivot

position F G
team
```

A 8.0 9.5
B 10.5 5.5

We can then use the reset_index() function to convert this pivot table to a pandas DataFrame:

```
#convert pivot table to DataFrame
df2 = df_pivot.reset_index()

#view DataFrame
df2
```

team F G
0 A 8.0 9.5
1 B 10.5 5.5

The result is a pandas DataFrame with two rows and three columns.

We can also use the following syntax to of the DataFrame:

```
#convert pivot table to DataFrame
df2.columns =
```

#view updated DataFrame
df2

team Forward_Pts Guard_Pts
0 A 8.0 9.5
1 B 10.5 5.5

Additional Resources

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