

# How can I group rows in a Pandas DataFrame into a list using the GroupBy function?

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## RECOMMENDED CITATION

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The GroupBy function in Pandas allows for the grouping of rows in a DataFrame into a list. This can be achieved by specifying a column or multiple columns as the grouping criteria. The function then creates a group for each unique value in the specified column(s) and stores the corresponding rows in a list. This is useful for organizing and analyzing data based on specific categories or groups within the dataset.

## Pandas: Group Rows into List Using GroupBy

You can use the following methods to group DataFrame rows into a list using GroupBy in pandas:

### Method 1: Group Rows into List for One Column

```
df.groupby('group_var').agg(list).reset_index(name='values_var')
```

### Method 2: Group Rows into List for Multiple Columns

```
df.groupby('team').agg(list)
```

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': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points assists
```

```
0 A 10 6
```

```
1 A 10 8
```

```
2 A 12 9
```

```
3 A 15 11
```

```
4 B 19 13
```

```
5 B 23 8
```

```
6 C 20 8
```

```
7 C 20 15
```

```
8 C 26 10
```

Example 1: Group Rows into List for One Column

We can use the following syntax to group rows by the team column and product one list for the values in the points column:

```
#group points values into list by  
teamdf.groupby('team').agg(list).reset_index(name='poi
```

nts')

team points

0 A

1 B

2 C

We can see that a list of points values is produced for each unique team in the DataFrame.

Example 2: Group Rows into List for Multiple Columns

We can use the following syntax to group rows by the team column and product a list of values for both the points and assists columns:

```
#group points and assists values into lists by team  
df.groupby('team').agg(list)
```

points assists

team

A

B

C

We can see that a list of points values and a list of

**assists values are produced for each unique team in the DataFrame.**

**Note: You can find the complete documentation for the GroupBy operation in pandas .**

**Additional Resources**

ARABPSYCHOLOGY.COM