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🕐 JANUARY 18, 2021   👤 BY ZACH

Pandas: How to Find Unique Values in a Column

The easiest way to obtain a list of unique values in a pandas DataFrame column is to use the unique() function.

This tutorial provides several examples of how to use this function with the following pandas DataFrame:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ['A', 'A', 'A', 'B', 'B', 'C'],
                   'conference': ['East', 'East', 'East', 'West', 'West', 'East']
                   'points': [11, 8, 10, 6, 6, 5]})

#view DataFrame
df

        team    conference  points
0       A       East        11
1       A       East        8
2       A       East        10
3       B       West        6
4       B       West        6
5       C       East        5
```

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Find Unique Values in One Column

The following code shows how to find the unique values in a single column of the DataFrame:

```
df.team.unique()

array(['A', 'B', 'C'], dtype=object)
```

We can see that the unique values in the team column include "A", "B", and "C."

Find Unique Values in All Columns

The following code shows how to find the unique values in all columns of the DataFrame:

```
for col in df:
  print(df[col].unique())

['A' 'B' 'C']
['East' 'West']
[11  8 10  6  5]
```

Find and Sort Unique Values in a Column

The following code shows how to find and sort by unique values in a single column of the DataFrame:

```
#find unique points values
points = df.points.unique()
```

```
#sort values smallest to largest
points.sort()

#display sorted values
points

array([ 5,  6,  8, 10, 11])
```

Find and Count Unique Values in a Column

The following code shows how to find and count the occurrence of unique values in a single column of the DataFrame:

```
df.team.value_counts()

A    3
B    2
C    1
Name: team, dtype: int64
```

Additional Resources

How to Select Unique Rows in a Pandas DataFrame
How to Find Unique Values in Multiple Columns in Pandas

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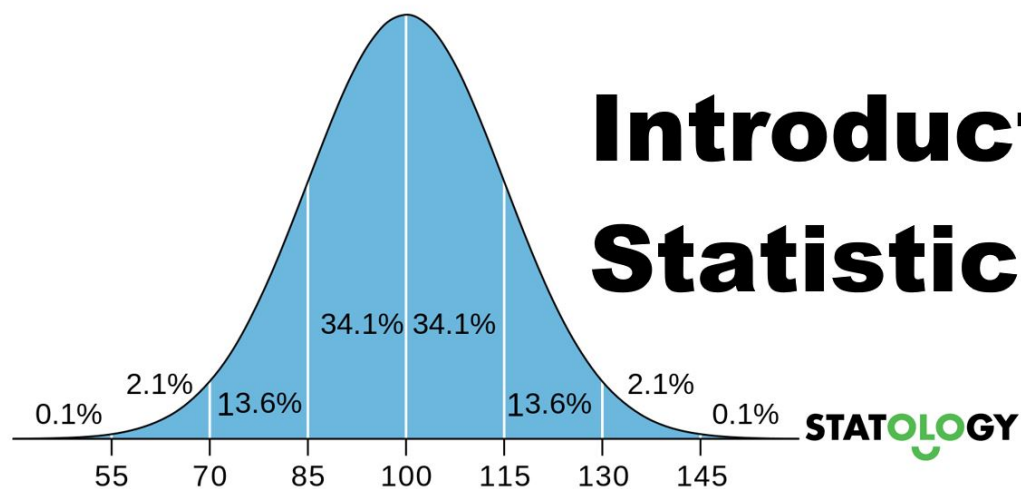

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