

How can I convert a Pandas object to an integer in Python?

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The process of converting a Pandas object to an integer in Python involves using the built-in "astype" function to explicitly convert the data type of the object to an integer. This can be achieved by specifying "int" as the parameter for the function, which will convert all values in the object to their corresponding integer representations. This method is useful for data manipulation and analysis, as it allows for easier computations and comparisons between numerical values. Additionally, the conversion process can be reversed by using the "astype" function again to convert the integer back to its original data type.

Pandas: Convert object to int

You can use the following syntax to convert a column in a pandas DataFrame from an object to an integer:

```
df = df.astype(str).astype(int)
```

The following examples show how to use this syntax in practice with the following pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'player': ,  
'points': ,  
'assists': })
```

```
#view data types for each column
```

```
df.dtypes
```

player object
points object
assists object
dtype: object

Example 1: Convert One Column from Object to Integer

The following code shows how to convert the points column from an object to an integer:

```
#convert 'points' column to integer  
df = df.astype(str).astype(int)
```

```
#view data types of each column  
df.dtypes
```

player object
points int32
assists object
dtype: object

We can see that the points column is now an integer, while all other columns remained unchanged.

Example 2: Convert Multiple Columns to Integer

The following code shows how to convert multiple columns in a DataFrame from an object to an integer:

```
#convert 'points' and 'assists' columns to integer  
df] = df].astype(str).astype(int)
```

```
#view data types for each column  
df.dtypes
```

```
player object  
points int32  
assists int32  
dtype: object
```

We can see that the points and assists columns have both been converted from objects to integers.

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