

How can I append data to an existing CSV file using Pandas?

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Appending data to an existing CSV file using Pandas is a simple process. First, the existing CSV file needs to be loaded into a Pandas DataFrame. Then, the new data can be added to the DataFrame using the "append" function. Finally, the updated DataFrame can be exported as a CSV file, which will automatically append the new data to the existing CSV file. This method is efficient and allows for easy data manipulation and management in CSV files using Pandas.

Pandas: Append Data to Existing CSV File

You can use the following syntax in pandas to append data to an existing CSV file:

```
df.to_csv('existing.csv', mode='a', index=False, header=False)
```

Here's how to interpret the arguments in the `to_csv()` function:

'existing.csv': The name of the existing CSV file.
mode='a': Use the 'append' mode as opposed to 'w' - the default 'write' mode.
index=False: Do not include an index column when appending the new data.
header=False: Do not include a header when appending the new data.

The following step-by-step example shows how to use this function in practice.

Step 1: View Existing CSV File

Suppose we have the following existing CSV file:

	A	B	C	D	E	F	G	H
1	team	points	rebounds					
2	A	5	11					
3	A	7	8					
4	B	9	6					
5	B	12	6					
6	C	9	5					
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Step 2: Create New Data to Append

Let's create a new pandas DataFrame to append to the existing CSV file:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'team': ,
```

```
'points': ,  
'rebounds': })
```

```
#view DataFrame
```

```
df
```

```
team points rebounds
```

```
0 D 6 15
```

```
1 D 4 18
```

```
2 E 4 9
```

```
3 E 7 12
```

Step 3: Append New Data to Existing CSV

The following code shows how to append this new data to the existing CSV file:

```
df.to_csv('existing.csv', mode='a', index=False,  
header=False)
```

Step 4: View Updated CSV

When we open the existing CSV file, we can see that the new data has been appended:

	A	B	C	D	E	F	G	H
1	team	points	rebounds					
2	A	5	11					
3	A	7	8					
4	B	9	6					
5	B	12	6					
6	C	9	5					
7	D	6	15					
8	D	4	18					
9	E	4	9					
10	E	7	12					
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Notes on Appending Data

When appending data to an existing CSV file, be sure to check whether the existing CSV has an index column or not.

If the existing CSV file does not have an index file, you need to specify `index=False` in the `to_csv()` function when appending the new data to prevent pandas from adding an index column.

How to Export Pandas DataFrames to Multiple Excel

Sheets

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