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How to get column names in Pandas dataframe

While analyzing the real datasets which are often very huge in size, we might need to get the column names in order to perform some certain operations.

Let's discuss how to get column names in Pandas **dataframe**.

First, let's create a simple dataframe with `nba.csv` file.

```
# Import pandas package
import pandas as pd

# making data frame
data = pd.read_csv("https://cdncontribute.geeksforgeeks.org/wp-content/

# calling head() method
# storing in new variable
data_top = data.head()

# display
data_top
```

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
0	Avery Bradley	Boston Celtics	0.0	PG	25.0	6-2	180.0	Texas	7730337.0
1	Jae Crowder	Boston Celtics	99.0	SF	25.0	6-6	235.0	Marquette	6796117.0
2	John Holland	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston University	NaN
3	R.J. Hunter	Boston Celtics	28.0	SG	22.0	6-5	185.0	Georgia State	1148640.0
4	Jonas Jerebko	Boston Celtics	8.0	PF	29.0	6-10	231.0	NaN	5000000

Now let's try to get the columns name from above dataset.



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```
# Import pandas package
import pandas as pd

# making data frame
data = pd.read_csv("nba.csv")

# iterating the columns
for col in data.columns:
    print(col)
```

Output:

```
Name
Team
Number
Position
Age
Height
Weight
College
Salary
```

Method #2: Using columns with dataframe object

```
# Import pandas package
import pandas as pd

# making data frame
data = pd.read_csv("nba.csv")

# list(data) or
list(data.columns)
```





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```
'Team',  
'Number',  
'Position',  
'Age',  
'Height',  
'Weight',  
'College',  
'Salary']
```

Method #3: `column.values` method returns an array of index.

```
# Import pandas package  
import pandas as pd  
  
# making data frame  
data = pd.read_csv("nba.csv")  
  
list(data.columns.values)
```

Output:

```
['Name',  
'Team',  
'Number',  
'Position',  
'Age',  
'Height',  
'Weight',  
'College',  
'Salary']
```

Method #4: Using `tolist()` method with values with given the list of columns.

```
# Import pandas package
```





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```
list(data.columns.values.tolist())
```

Output:

```
['Name',  
 'Team',  
 'Number',  
 'Position',  
 'Age',  
 'Height',  
 'Weight',  
 'College',  
 'Salary']
```

Method #5: Using sorted() method

Sorted() method will return the list of columns sorted in alphabetical order.

```
# Import pandas package  
import pandas as pd  
  
# making data frame  
data = pd.read_csv("nba.csv")  
  
# using sorted() method  
sorted(data)
```





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```
college',  
'Height',  
'Name',  
'Number',  
'Position',  
'Salary',  
'Team',  
'Weight']
```

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