```
In [1]: import pandas as p
        import numpy as n
```

```
In [2]: p.read_csv(r"C:\Users\V14De\OneDrive\Desktop\MEGHNA CHRIST\python 2\SBA-class-activity
```

Out[2]:

	Name	Team	Position	Height	Weight	College	Salary
0	Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
1	Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0
2	Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0
3	Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
4	Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0
...	...	...	...	...	...	...	...
587	Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
588	Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
589	Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	NaN
590	Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
591	NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 7 columns

```
In [3]: nb=p.read_csv(r"C:\Users\V14De\OneDrive\Desktop\MEGHNA CHRIST\python 2\SBA-class-activ
```

```
In [4]: nb.describe()
```

Out[4]:

	Weight	Salary
count	584.000000	4.880000e+02
mean	214.763699	9.218978e+06
std	23.460612	1.131927e+07
min	160.000000	5.088910e+05
25%	198.000000	1.980599e+06
50%	215.000000	4.018638e+06
75%	230.000000	1.169694e+07
max	290.000000	5.191562e+07

```
In [5]: nb.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 592 entries, Saddiq Bey to nan
Data columns (total 6 columns):
 #   Column    Non-Null Count   Dtype
---  ------    --------------   -----
 0   Team      591 non-null     object
 1   Position  584 non-null     object
 2   Height    585 non-null     object
 3   Weight    584 non-null     float64
 4   College   578 non-null     object
 5   Salary    488 non-null     float64
dtypes: float64(2), object(4)
memory usage: 32.4+ KB
```

In [6]: `nb.head(2)`

Out[6]:

	Team	Position	Height	Weight	College	Salary
Name						
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0

In [7]: `nb.tail(2)`

Out[7]:

	Team	Position	Height	Weight	College	Salary
Name						
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

In [8]: `nba=p.read_csv(r"C:\Users\V14De\OneDrive\Desktop\MEGHNA CHRIST\python 2\SBA-class-acti`

In [9]: `nba`

Out[9]:

Name	Team	Position	Height	Weight	College	Salary
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0
...	...	...	...	...	...	...
Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [10]:
```python
nba.squeeze('columns')
```

Out[10]:

Name	Team	Position	Height	Weight	College	Salary
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0
...	...	...	...	...	...	...
Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [11]:
```python
nb
```

Out[11]:

Name	Team	Position	Height	Weight	College	Salary
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0
...	...	...	...	...	...	...
Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [12]:
```python
nb.sort_index(ascending=False)
```

Out[12]:

Name	Team	Position	Height	Weight	College	Salary
Zion Williamson	New Orleans Pelicans	F	6-6	284.0	Duke	34005250.0
Ziaire Williams	Memphis Grizzlies	F	6-9	185.0	Stanford	4810200.0
Zeke Nnaji	Denver Nuggets	F-C	6-9	240.0	Arizona	4306281.0
Zach LaVine	Chicago Bulls	G	6-5	200.0	UCLA	40064220.0
Zach Collins	San Antonio Spurs	F-C	6-11	250.0	Gonzaga	7700000.0
...	...	...	...	...	...	...
Aaron Gordon	Denver Nuggets	F	6-8	235.0	Arizona	22266182.0
AJ Griffin	Atlanta Hawks	F	6-6	220.0	Duke	3712920.0
AJ Green	Milwaukee Bucks	G	6-5	190.0	Northern Iowa	1901769.0
A.J. Lawson	Dallas Mavericks	G	6-6	179.0	South Carolina	NaN
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [13]:
```python
nb.sort_index(ascending=True)
```

Out[13]:

Name	Team	Position	Height	Weight	College	Salary
A.J. Lawson	Dallas Mavericks	G	6-6	179.0	South Carolina	NaN
AJ Green	Milwaukee Bucks	G	6-5	190.0	Northern Iowa	1901769.0
AJ Griffin	Atlanta Hawks	F	6-6	220.0	Duke	3712920.0
Aaron Gordon	Denver Nuggets	F	6-8	235.0	Arizona	22266182.0
Aaron Holiday	Houston Rockets	G	6-0	185.0	UCLA	2346614.0
...	...	...	...	...	...	...
Zach LaVine	Chicago Bulls	G	6-5	200.0	UCLA	40064220.0
Zeke Nnaji	Denver Nuggets	F-C	6-9	240.0	Arizona	4306281.0
Ziaire Williams	Memphis Grizzlies	F	6-9	185.0	Stanford	4810200.0
Zion Williamson	New Orleans Pelicans	F	6-6	284.0	Duke	34005250.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [14]:
```python
nb.sort_values(by='Name',ascending=False)
```

Out[14]:

Name	Team	Position	Height	Weight	College	Salary
Zion Williamson	New Orleans Pelicans	F	6-6	284.0	Duke	34005250.0
Ziaire Williams	Memphis Grizzlies	F	6-9	185.0	Stanford	4810200.0
Zeke Nnaji	Denver Nuggets	F-C	6-9	240.0	Arizona	4306281.0
Zach LaVine	Chicago Bulls	G	6-5	200.0	UCLA	40064220.0
Zach Collins	San Antonio Spurs	F-C	6-11	250.0	Gonzaga	7700000.0
...	...	...	...	...	...	...
Aaron Gordon	Denver Nuggets	F	6-8	235.0	Arizona	22266182.0
AJ Griffin	Atlanta Hawks	F	6-6	220.0	Duke	3712920.0
AJ Green	Milwaukee Bucks	G	6-5	190.0	Northern Iowa	1901769.0
A.J. Lawson	Dallas Mavericks	G	6-6	179.0	South Carolina	NaN
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [15]:
```python
nb["Salary"]*2
```

Out[15]:
```
Name
Saddiq Bey             9113966.0
Bogdan Bogdanovic      37400000.0
Kobe Bufkin            8188488.0
Clint Capela           41232000.0
Bruno Fernando         5163044.0
                         ...
Ryan Rollins           3439728.0
Landry Shamet          20500000.0
Tristan Vukcevic             NaN
Delon Wright           16390244.0
NaN                          NaN
Name: Salary, Length: 592, dtype: float64
```

In [16]: `nb.sort_values(by="Name",ascending=True)`

Out[16]:

Name	Team	Position	Height	Weight	College	Salary
A.J. Lawson	Dallas Mavericks	G	6-6	179.0	South Carolina	NaN
AJ Green	Milwaukee Bucks	G	6-5	190.0	Northern Iowa	1901769.0
AJ Griffin	Atlanta Hawks	F	6-6	220.0	Duke	3712920.0
Aaron Gordon	Denver Nuggets	F	6-8	235.0	Arizona	22266182.0
Aaron Holiday	Houston Rockets	G	6-0	185.0	UCLA	2346614.0
...	...	...	...	...	...	...
Zach LaVine	Chicago Bulls	G	6-5	200.0	UCLA	40064220.0
Zeke Nnaji	Denver Nuggets	F-C	6-9	240.0	Arizona	4306281.0
Ziaire Williams	Memphis Grizzlies	F	6-9	185.0	Stanford	4810200.0
Zion Williamson	New Orleans Pelicans	F	6-6	284.0	Duke	34005250.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [17]: `nba`

Out[17]:

Name	Team	Position	Height	Weight	College	Salary
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0
...	...	...	...	...	...	...
Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [18]:
```python
nba.sort_values(by=["Team","Position"],ascending=True)
```

Out[18]:

Name	Team	Position	Height	Weight	College	Salary
Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0
Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0
AJ Griffin	Atlanta Hawks	F	6-6	220.0	Duke	3712920.0
Mouhamed Gueye	Atlanta Hawks	F	6-11	210.0	Washington State	1119563.0
Jalen Johnson	Atlanta Hawks	F	6-8	219.0	Duke	2925360.0
...	...	...	...	...	...	...
Jordan Poole	Washington Wizards	G	6-4	194.0	Michigan	27955357.0
Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0
Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
NaN	NaN	NaN	NaN	NaN	NaN	NaN

592 rows × 6 columns

In [ ]:

In [ ]: