

```
In [2]: import pandas as pd
import numpy as np
```

```
In [16]: data={"Region":["Asia","Asia","Europe","Europe","America","America"],
               "Country":["China","India","France","Germany","America","Canada"],
               "Year":[2025,2023,2024,2022,2021,2025],
               "Sales":[20000,30000,40000,50000,60000,70000],
               "Profit":[300,400,500,600,700,600]}
```

```
In [17]: df=pd.DataFrame(data)
df
```

```
Out[17]:
```

	Region	Country	Year	Sales	Profit
0	Asia	China	2025	20000	300
1	Asia	India	2023	30000	400
2	Europe	France	2024	40000	500
3	Europe	Germany	2022	50000	600
4	America	America	2021	60000	700
5	America	Canada	2025	70000	600

```
In [18]: df[(df["Sales"]>30000)]
```

```
Out[18]:
```

	Region	Country	Year	Sales	Profit
2	Europe	France	2024	40000	500
3	Europe	Germany	2022	50000	600
4	America	America	2021	60000	700
5	America	Canada	2025	70000	600

```
In [9]: df.groupby("Region")
```

```
Out[9]: <pandas.core.groupby.generic.DataFrameGroupBy object at 0x000001C7668FB680>
```

To find mean of multiple columns

```
In [5]: df.groupby("Region")[["Profit", "Year"]].mean()
```

```
Out[5]:
```

	Profit	Year
Region		
America	650.0	2023.0
Asia	350.0	2024.0
Europe	550.0	2023.0

```
In [19]: da = {'Category': ['A', 'B', 'A', 'C', 'B', 'A'],
              'Value': [10, 15, 12, 8, 20, 14],
              'Quantity': [1, 2, 1, 3, 2, 1]}
df = pd.DataFrame(da)
df
```

```
Out[19]:
```

	Category	Value	Quantity
0	A	10	1
1	B	15	2
2	A	12	1
3	C	8	3
4	B	20	2
5	A	14	1

To group by "Category" and find the mean of all values of that category

```
In [20]: grouped_mean = df.groupby('Category')['Value'].mean()
print("Mean Value by Category:")
print(grouped_mean)
```

```
Mean Value by Category:
Category
A      12.0
B      17.5
C       8.0
Name: Value, dtype: float64
```

```
In [22]: jb=pd.read_csv(r"C:\Users\nihar\Downloads\jamesbond - jamesbond.csv")
jb
```

Out[22]:

	Film	Year	Actor	Director	Box Office	Budget	Bond Actor Salary
0	Dr. No	1962	Sean Connery	Terence Young	448.8	7.0	0.6
1	From Russia with Love	1963	Sean Connery	Terence Young	543.8	12.6	1.6
2	Goldfinger	1964	Sean Connery	Guy Hamilton	820.4	18.6	3.2
3	Thunderball	1965	Sean Connery	Terence Young	848.1	41.9	4.7
4	Casino Royale	1967	David Niven	Ken Hughes	315.0	85.0	NaN
5	You Only Live Twice	1967	Sean Connery	Lewis Gilbert	514.2	59.9	4.4
6	On Her Majesty's Secret Service	1969	George Lazenby	Peter R. Hunt	291.5	37.3	0.6
7	Diamonds Are Forever	1971	Sean Connery	Guy Hamilton	442.5	34.7	5.8
8	Live and Let Die	1973	Roger Moore	Guy Hamilton	460.3	30.8	NaN
9	The Man with the Golden Gun	1974	Roger Moore	Guy Hamilton	334.0	27.7	NaN
10	The Spy Who Loved Me	1977	Roger Moore	Lewis Gilbert	533.0	45.1	NaN
11	Moonraker	1979	Roger Moore	Lewis Gilbert	535.0	91.5	NaN
12	For Your Eyes Only	1981	Roger Moore	John Glen	449.4	60.2	NaN
13	Never Say Never Again	1983	Sean Connery	Irvin Kershner	380.0	86.0	NaN
14	Octopussy	1983	Roger Moore	John Glen	373.8	53.9	7.8
15	A View to a Kill	1985	Roger Moore	John Glen	275.2	54.5	9.1
16	The Living Daylights	1987	Timothy Dalton	John Glen	313.5	68.8	5.2
17	Licence to Kill	1989	Timothy Dalton	John Glen	250.9	56.7	7.9
18	GoldenEye	1995	Pierce Brosnan	Martin Campbell	518.5	76.9	5.1
19	Tomorrow Never Dies	1997	Pierce Brosnan	Roger Spottiswoode	463.2	133.9	10.0

	Film	Year	Actor	Director	Box Office	Budget	Bond Actor Salary
20	The World Is Not Enough	1999	Pierce Brosnan	Michael Apted	439.5	158.3	13.5
21	Die Another Day	2002	Pierce Brosnan	Lee Tamahori	465.4	154.2	17.9
22	Casino Royale	2006	Daniel Craig	Martin Campbell	581.5	145.3	3.3
23	Quantum of Solace	2008	Daniel Craig	Marc Forster	514.2	181.4	8.1
24	Skyfall	2012	Daniel Craig	Sam Mendes	943.5	170.2	14.5
25	Spectre	2015	Daniel Craig	Sam Mendes	726.7	206.3	30.0
26	No Time to Die	2021	Daniel Craig	Cary Joji Fukunaga	774.2	301.0	25.0

In [23]: `jb.shape` *#total number of rows and columns*

Out[23]: (27, 7)

In [24]: `jb.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 27 entries, 0 to 26
Data columns (total 7 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Film                  27 non-null    object
1   Year                  27 non-null    int64
2   Actor                 27 non-null    object
3   Director              27 non-null    object
4   Box Office            27 non-null    float64
5   Budget                27 non-null    float64
6   Bond Actor Salary     20 non-null    float64
dtypes: float64(3), int64(1), object(3)
memory usage: 1.6+ KB
```

In [25]: `jb.describe()`

Out[25]:

	Year	Box Office	Budget	Bond Actor Salary
count	27.000000	27.000000	27.000000	20.000000
mean	1984.962963	502.077778	88.877778	8.915000
std	17.526862	181.640790	70.227615	7.855891
min	1962.000000	250.900000	7.000000	0.600000
25%	1970.000000	376.900000	39.600000	4.125000
50%	1983.000000	463.200000	60.200000	6.800000
75%	1998.000000	539.400000	139.600000	10.875000
max	2021.000000	943.500000	301.000000	30.000000

To find the missing values where 'true' suggests the no. of missing values

In [10]: `jb.isna().value_counts()`

```
Out[10]: Film      Year      Actor      Director      Box Office      Budget      Bond Actor Salary
False      False      False      False          False          False      False              20
True                               True              7

Name: count, dtype: int64
```

Series

In [27]: `ice_cream=["Strawberry","Chocolate","Vanilla","TuttiFruty"]`In [28]: `pd.Series(ice_cream)`

```
Out[28]: 0    Strawberry
1     Chocolate
2       Vanilla
3    TuttiFruty
dtype: object
```

In [13]: `lottery_num=[12,45,67,89,9]`
`pd.Series(lottery_num)`

```
Out[13]: 0    12
1     45
2     67
3     89
4      9
dtype: int64
```

In [14]: `sushi={"Salmon":"Orange","Tuna":"Red","Eel":"Brown"}`
`pd.Series(sushi)`

```
Out[14]: Salmon    Orange
Tuna             Red
Eel              Brown
dtype: object
```

In [15]: `price=pd.Series([23.5,45,78,2,5])`
`price`

```
Out[15]: 0    23.5  
        1    45.0  
        2    78.0  
        3     2.0  
        4     5.0  
        dtype: float64
```

```
In [16]: price.sum()
```

```
Out[16]: 153.5
```

```
In [17]: price.mean()
```

```
Out[17]: 30.7
```

```
In [18]: price.std()
```

```
Out[18]: 31.53490129998824
```

```
In [19]: adj=pd.Series(["Beautiful","Smart","Intelligent","Pretty","Smart"])  
adj
```

```
Out[19]: 0    Beautiful  
        1      Smart  
        2  Intelligent  
        3      Pretty  
        4      Smart  
        dtype: object
```

```
In [20]: adj.size #attribute
```

```
Out[20]: 5
```

```
In [21]: adj.values
```

```
Out[21]: array(['Beautiful', 'Smart', 'Intelligent', 'Pretty', 'Smart'],  
              dtype=object)
```

```
In [22]: adj.is_unique
```

```
Out[22]: False
```

```
In [23]: type(adj.values) #to find the library
```

```
Out[23]: numpy.ndarray
```

```
In [24]: weekdays=["Monday","Tuesday","Wednesday","Thursday","Friday","Saturday","Sunday"]  
fruits=["Apple","Banana","Orange","Guava","Litchi","Kiwi","Mango"]
```

```
In [25]: pd.Series(weekdays,fruits)
```

```
Out[25]: Apple      Monday
         Banana    Tuesday
         Orange    Wednesday
         Guava     Thursday
         Litchi    Friday
         Kiwi      Saturday
         Mango     Sunday
         dtype: object
```

```
In [26]: pd.Series(fruits, weekdays)
```

```
Out[26]: Monday      Apple
         Tuesday     Banana
         Wednesday   Orange
         Thursday    Guava
         Friday      Litchi
         Saturday    Kiwi
         Sunday      Mango
         dtype: object
```

```
In [27]: pd.Series(index=fruits, data=weekdays)
```

```
Out[27]: Apple      Monday
         Banana    Tuesday
         Orange    Wednesday
         Guava     Thursday
         Litchi    Friday
         Kiwi      Saturday
         Mango     Sunday
         dtype: object
```

```
In [29]: pokemon=pd.read_csv(r"C:\Users\nihar\Downloads\pokemon.csv")
         pokemon
```

```
Out[29]:
```

	Name	Type
0	Bulbasaur	Grass, Poison
1	Ivysaur	Grass, Poison
2	Venusaur	Grass, Poison
3	Charmander	Fire
4	Charmeleon	Fire
...
1005	Iron Valiant	Fairy, Fighting
1006	Koraidon	Fighting, Dragon
1007	Miraidon	Electric, Dragon
1008	Walking Wake	Water, Dragon
1009	Iron Leaves	Grass, Psychic

1010 rows × 2 columns

```
In [30]: pokemon=pd.read_csv(r"C:\Users\nihar\Downloads\pokemon.csv")
pokemon
```

```
Out[30]:
```

	Name	Type
0	Bulbasaur	Grass, Poison
1	Ivysaur	Grass, Poison
2	Venusaur	Grass, Poison
3	Charmander	Fire
4	Charmeleon	Fire
...
1005	Iron Valiant	Fairy, Fighting
1006	Koraidon	Fighting, Dragon
1007	Miraidon	Electric, Dragon
1008	Walking Wake	Water, Dragon
1009	Iron Leaves	Grass, Psychic

1010 rows × 2 columns

.squeeze() is used to convert from dataframe to Series

```
In [31]: mon=pd.read_csv(r"C:\Users\nihar\Downloads\pokemon.csv",usecols=["Name"]).squeeze()
mon
```

```
Out[31]: 0      Bulbasaur
1      Ivysaur
2      Venusaur
3      Charmander
4      Charmeleon
...
1005   Iron Valiant
1006      Koraidon
1007      Miraidon
1008   Walking Wake
1009   Iron Leaves
Name: Name, Length: 1010, dtype: object
```

```
In [33]: poke=pd.read_csv(r"C:\Users\nihar\Downloads\pokemon.csv",usecols=["Type"]).squeeze()
poke
```



```
Out[33]: 0      Grass, Poison
         1      Grass, Poison
         2      Grass, Poison
         3           Fire
         4           Fire
         ...
        1005   Fairy, Fighting
        1006   Fighting, Dragon
        1007   Electric, Dragon
        1008     Water, Dragon
        1009     Grass, Psychic
        Name: Type, Length: 1010, dtype: object
```

```
In [32]: len(pokemon)
```

```
Out[32]: 1010
```

```
In [34]: list(poke)
```

```
Out[34]: ['Grass, Poison',
          'Grass, Poison',
          'Grass, Poison',
          'Fire',
          'Fire',
          'Fire, Flying',
          'Water',
          'Water',
          'Water',
          'Bug',
          'Bug',
          'Bug, Flying',
          'Bug, Poison',
          'Bug, Poison',
          'Bug, Poison',
          'Normal, Flying',
          'Normal, Flying',
          'Normal, Flying',
          'Normal',
          'Normal',
          'Normal, Flying',
          'Normal, Flying',
          'Poison',
          'Poison',
          'Electric',
          'Electric',
          'Ground',
          'Ground',
          'Poison',
          'Poison',
          'Poison, Ground',
          'Poison',
          'Poison',
          'Poison, Ground',
          'Fairy',
          'Fairy',
          'Fire',
          'Fire',
          'Normal, Fairy',
          'Normal, Fairy',
          'Poison, Flying',
          'Poison, Flying',
          'Grass, Poison',
          'Grass, Poison',
          'Grass, Poison',
          'Bug, Grass',
          'Bug, Grass',
          'Bug, Poison',
          'Bug, Poison',
          'Ground',
          'Ground',
          'Normal',
          'Normal',
          'Water',
          'Water',
          'Fighting',
          'Fighting',
          'Fire',
          'Fire',
          'Water',
```

'Water',
'Water, Fighting',
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'Psychic',
'Psychic',
'Fighting',
'Fighting',
'Fighting',
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'Grass, Poison',
'Grass, Poison',
'Water, Poison',
'Water, Poison',
'Rock, Ground',
'Rock, Ground',
'Rock, Ground',
'Fire',
'Fire',
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'Water, Psychic',
'Electric, Steel',
'Electric, Steel',
'Normal, Flying',
'Normal, Flying',
'Normal, Flying',
'Water',
'Water, Ice',
'Poison',
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'Water',
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'Ghost, Poison',
'Rock, Ground',
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'Fire',
'Bug',
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'Water',
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'Water, Ice',
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'Normal',
'Water',
'Electric',
'Fire',
'Normal',
'Rock, Water',
'Rock, Water',
'Rock, Water',
'Rock, Water',
'Rock, Flying',
'Normal',
'Ice, Flying',
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'Water, Electric',
'Electric',
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'Normal, Fairy',
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'Fairy, Flying',
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'Psychic, Flying',
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'Grass',
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'Dark',
'Dark, Flying',
'Water, Psychic',
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'Psychic',
'Psychic',
'Normal, Psychic',
'Bug',
'Bug, Steel',
'Normal',
'Ground, Flying',
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'Fairy',
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'Bug, Steel',
'Bug, Rock',
'Bug, Fighting',
'Dark, Ice',
'Normal',
'Normal',
'Fire',
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'Ice, Ground',
'Ice, Ground',
'Water, Rock',
'Water',
'Water',
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'Steel, Flying',
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'Water, Dragon',
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'Ground',
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'Normal',
'Normal',
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'Fighting',
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'Water, Rock',
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'Rock, Flying',
'Rock, Flying',
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'Psychic',
'Water, Flying',
'Water, Flying',
'Ice',
'Ice',
'Ice',
'Normal, Grass',
'Normal, Grass',
'Electric, Flying',
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'Bug, Steel',
'Grass, Poison',
'Grass, Poison',
'Water, Ghost',
'Water, Ghost',
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'Bug, Electric',
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'Steel',

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'Dragon',
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'Ice',
'Bug',
'Bug',
'Ground, Electric',
'Fighting',
'Fighting',
'Dragon',
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'Ground, Ghost',
'Dark, Steel',
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'Normal, Flying',
'Dark, Flying',
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In [35]: `sorted(poke)`

file:///C:/Users/nihar/Downloads/dataframe.html

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```

```
In [35]: max(mon)
```

```
Out[35]: 'Zygarde'
```

```
In [36]: min(mon)
```

```
Out[36]: 'Abomasnow'
```

```
In [37]: pokemon.shape
```

```
Out[37]: (1010, 2)
```

```
In [36]: google=pd.read_csv(r"C:\Users\nihar\Downloads\google_price.csv")  
google
```

Out[36]:

	Date	Price
0	19-08-2004	2.490664
1	20-08-2004	2.515820
2	23-08-2004	2.758411
3	24-08-2004	2.770615
4	25-08-2004	2.614201
...
4788	28-08-2023	132.080002
4789	29-08-2023	132.998001
4790	30-08-2023	135.570007
4791	31-08-2023	137.050003
4792	01-09-2023	138.429993

4793 rows × 2 columns

In [37]: `google.info`

Out[37]: <bound method DataFrame.info of

	Date	Price
0	19-08-2004	2.490664
1	20-08-2004	2.515820
2	23-08-2004	2.758411
3	24-08-2004	2.770615
4	25-08-2004	2.614201
...
4788	28-08-2023	132.080002
4789	29-08-2023	132.998001
4790	30-08-2023	135.570007
4791	31-08-2023	137.050003
4792	01-09-2023	138.429993

[4793 rows x 2 columns]>

In [41]: `google.shape`

Out[41]: (4793, 2)

In [42]: `google.head(25)`

Out[42]:

	Date	Price
0	19-08-2004	2.490664
1	20-08-2004	2.515820
2	23-08-2004	2.758411
3	24-08-2004	2.770615
4	25-08-2004	2.614201
5	26-08-2004	2.613952
6	27-08-2004	2.692408
7	30-08-2004	2.622171
8	31-08-2004	2.547950
9	01-09-2004	2.557912
10	02-09-2004	2.470490
11	03-09-2004	2.514326
12	07-09-2004	2.515820
13	08-09-2004	2.509095
14	09-09-2004	2.553678
15	10-09-2004	2.530515
16	13-09-2004	2.655795
17	14-09-2004	2.676219
18	15-09-2004	2.753679
19	16-09-2004	2.798012
20	17-09-2004	2.849818
21	20-09-2004	2.912832
22	21-09-2004	2.984065
23	22-09-2004	2.924040
24	23-09-2004	2.959906

In [43]: `google.tail(25)`

Out[43]:

	Date	Price
4768	31-07-2023	133.009995
4769	01-08-2023	130.854996
4770	02-08-2023	129.839996
4771	03-08-2023	128.369995
4772	04-08-2023	129.600006
4773	07-08-2023	129.509995
4774	08-08-2023	130.979996
4775	09-08-2023	132.190002
4776	10-08-2023	131.970001
4777	11-08-2023	129.201996
4778	14-08-2023	129.850006
4779	15-08-2023	131.589996
4780	16-08-2023	129.279999
4781	17-08-2023	130.449997
4782	18-08-2023	129.059998
4783	21-08-2023	127.849998
4784	22-08-2023	129.130005
4785	23-08-2023	130.850006
4786	24-08-2023	134.727005
4787	25-08-2023	130.139999
4788	28-08-2023	132.080002
4789	29-08-2023	132.998001
4790	30-08-2023	135.570007
4791	31-08-2023	137.050003
4792	01-09-2023	138.429993

In [44]: `google.describe()`

Out[44]:

Price	
count	4793.000000
mean	40.211377
std	37.274753
min	2.470490
25%	12.767395
50%	26.327717
75%	56.311001
max	151.863495

In [38]: `sorted(google)`Out[38]: `['Date', 'Price']`In [39]: `nba=pd.read_csv(r"C:\Users\nihar\Downloads\nba.csv",usecols=["College"])`
`nba`

Out[39]:

College	
0	Villanova
1	Fenerbahce
2	Michigan
3	Elan Chalon
4	Maryland
...	...
586	Michigan
587	Toledo
588	Wichita State
589	Real Madrid
590	Utah

591 rows × 1 columns

In [40]: `nba.head()`

Out[40]:

	College
0	Villanova
1	Fenerbahce
2	Michigan
3	Elan Chalon
4	Maryland

```
In [42]: nbba=pd.read_csv(r"C:\Users\nihar\Downloads\nba.csv", index_col="Name")
nbba
```

Out[42]:

	Team	Position	Height	Weight	College	Salary
Name						
Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	06-May	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0
...
Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0
Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0

591 rows × 6 columns

```
In [46]: nbba.sort_index(ascending=False)
```


Out[46]:

	Team	Position	Height	Weight	College	Salary
Name						
Zion Williamson	New Orleans Pelicans	F	06-Jun	284.0	Duke	34005250.0
Ziaire Williams	Memphis Grizzlies	F	06-Sep	185.0	Stanford	4810200.0
Zeke Nnaji	Denver Nuggets	F-C	06-Sep	240.0	Arizona	4306281.0
Zach LaVine	Chicago Bulls	G	06-May	200.0	UCLA	40064220.0
Zach Collins	San Antonio Spurs	F-C	06-Nov	250.0	Gonzaga	7700000.0
...
Aaron Holiday	Houston Rockets	G	6-0	185.0	UCLA	2346614.0
Aaron Gordon	Denver Nuggets	F	06-Aug	235.0	Arizona	22266182.0
AJ Griffin	Atlanta Hawks	F	06-Jun	220.0	Duke	3712920.0
AJ Green	Milwaukee Bucks	G	06-May	190.0	Northern Iowa	1901769.0
A.J. Lawson	Dallas Mavericks	G	06-Jun	179.0	South Carolina	NaN

591 rows × 6 columns

```
In [71]: nbba.sort_values("Name", ascending=True)
```

Out[71]:

		Team	Position	Height	Weight	College	Salary
Name							
A.J. Lawson		Dallas Mavericks	G	06-Jun	179.0	South Carolina	NaN
AJ Green		Milwaukee Bucks	G	06-May	190.0	Northern Iowa	1901769.0
AJ Griffin		Atlanta Hawks	F	06-Jun	220.0	Duke	3712920.0
Aaron Gordon		Denver Nuggets	F	06-Aug	235.0	Arizona	22266182.0
Aaron Holiday		Houston Rockets	G	6-0	185.0	UCLA	2346614.0
...	
Zach Collins		San Antonio Spurs	F-C	06-Nov	250.0	Gonzaga	7700000.0
Zach LaVine		Chicago Bulls	G	06-May	200.0	UCLA	40064220.0
Zeke Nnaji		Denver Nuggets	F-C	06-Sep	240.0	Arizona	4306281.0
Ziaire Williams		Memphis Grizzlies	F	06-Sep	185.0	Stanford	4810200.0
Zion Williamson		New Orleans Pelicans	F	06-Jun	284.0	Duke	34005250.0

591 rows × 6 columns

In [55]:

```
nbba
```

Out[55]:

	Team	Position	Height	Weight	College	Salary
Name						
Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0
Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0
Kobe Bufkin	Atlanta Hawks	G	06-May	195.0	Michigan	4094244.0
Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0
Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0
...
Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0
Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0
Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	NaN
Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0

591 rows × 6 columns

In [56]: nbba["Salary"]*2

Out[56]:

Name	
Saddiq Bey	9113966.0
Bogdan Bogdanovic	37400000.0
Kobe Bufkin	8188488.0
Clint Capela	41232000.0
Bruno Fernando	5163044.0
...	
Jordan Poole	55910714.0
Ryan Rollins	3439728.0
Landry Shamet	20500000.0
Tristan Vukcevic	NaN
Delon Wright	16390244.0

Name: Salary, Length: 591, dtype: float64

In [49]: nbba["double_salary"]=nbba["Salary"]*2
nbba

Out[49]:

	Team	Position	Height	Weight	College	Salary	double_sala
Name							
Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0	9113966
Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0	37400000
Kobe Bufkin	Atlanta Hawks	G	06-May	195.0	Michigan	4094244.0	8188488
Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0	41232000
Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0	5163044
...
Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0	55910714
Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0	3439728
Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0	20500000
Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	NaN	NaN
Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0	16390244

591 rows × 7 columns



```
In [63]: nbba.sort_values(["Team", "Position"], ascending=True)
```

Out[63]:

	Team	Position	Height	Weight	College	Salary
Name						
Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0
Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0
AJ Griffin	Atlanta Hawks	F	06-Jun	220.0	Duke	3712920.0
Mouhamed Gueye	Atlanta Hawks	F	06-Nov	210.0	Washington State	1119563.0
Jalen Johnson	Atlanta Hawks	F	06-Aug	219.0	Duke	2925360.0
...
Kendrick Nunn	Washington Wizards	G	06-Mar	190.0	Oakland	NaN
Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0
Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0
Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0
Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0

591 rows × 6 columns

In []: