

```
In [1]: import pandas as pd
import numpy as np
```

```
In [2]: nba=pd.read_csv(r"C:\Users\nihar\Downloads\nba.csv")
nba
```

```
Out[2]:
```

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

591 rows × 7 columns

```
In [5]: nba.drop(2) #by default it takes axis=0 so it drops the 2nd row
```

Out[5]:

	Name	Team	Position	Height	Weight	College	Salary
0	Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0
1	Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0
3	Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0
4	Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0
5	Trent Forrest	Atlanta Hawks	G	06-Apr	210.0	Florida State	508891.0
...
586	Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0
587	Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0
588	Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0
589	Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	NaN
590	Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0

590 rows × 7 columns

```
In [12]: nba.dropna(how="all")
nba.dropna(subset=["College"]) #drops all the missing values on the college column
```

Out[12]:

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

578 rows × 7 columns

In [4]: `nba["College"].isna().value_counts()`

Out[4]: College
False 578
True 13
Name: count, dtype: int64

In [5]: `nba["Salary"].isna().value_counts()`

Out[5]: Salary
False 488
True 103
Name: count, dtype: int64

In [6]: `nba["Salary"]>400000`

```
Out[6]: 0      True
        1      True
        2      True
        3      True
        4      True
        ...
        586    True
        587    True
        588    True
        589    False
        590    True
        Name: Salary, Length: 591, dtype: bool
```

```
In [10]: nba["Salary"]=nba["Salary"].fillna(0)
         nba["College"]=nba["College"].fillna("Unknown")
         nba
```

```
Out[10]:
```

	Name	Team	Position	Height	Weight	College	Salary
0	Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0
1	Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0
2	Kobe Bufkin	Atlanta Hawks	G	06-May	195.0	Michigan	4094244.0
3	Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0
4	Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0
...
586	Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0
587	Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0
588	Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0
589	Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	0.0
590	Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0

591 rows × 7 columns

```
In [17]: nba.loc[:,["Name", "Team", "Position"]].head()
```

Out[17]:

	Name	Team	Position
0	Saddiq Bey	Atlanta Hawks	F
1	Bogdan Bogdanovic	Atlanta Hawks	G
2	Kobe Bufkin	Atlanta Hawks	G
3	Clint Capela	Atlanta Hawks	C
4	Bruno Fernando	Atlanta Hawks	F-C

In [20]: `nba.loc[nba["Position"]=="G",["Name","Team","Position"]].head()`

Out[20]:

	Name	Team	Position
1	Bogdan Bogdanovic	Atlanta Hawks	G
2	Kobe Bufkin	Atlanta Hawks	G
5	Trent Forrest	Atlanta Hawks	G
10	Seth Lundy	Atlanta Hawks	G
11	Garrison Mathews	Atlanta Hawks	G

In [19]: `nba[["Name","Team","Position"]]`

Out[19]:

	Name	Team	Position
0	Saddiq Bey	Atlanta Hawks	F
1	Bogdan Bogdanovic	Atlanta Hawks	G
2	Kobe Bufkin	Atlanta Hawks	G
3	Clint Capela	Atlanta Hawks	C
4	Bruno Fernando	Atlanta Hawks	F-C
...
586	Jordan Poole	Washington Wizards	G
587	Ryan Rollins	Washington Wizards	G
588	Landry Shamet	Washington Wizards	G
589	Tristan Vukcevic	Washington Wizards	F
590	Delon Wright	Washington Wizards	G

591 rows × 3 columns

In [22]: `nba["Salary_inr"]=nba["Salary"]*1.05`
`nba`

Out[22]:

	Name	Team	Position	Height	Weight	College	Salary	Salary
0	Saddiq Bey	Atlanta Hawks	F	06-Jul	215.0	Villanova	4556983.0	47846
1	Bogdan Bogdanovic	Atlanta Hawks	G	06-May	225.0	Fenerbahce	18700000.0	196350
2	Kobe Bufkin	Atlanta Hawks	G	06-May	195.0	Michigan	4094244.0	42985
3	Clint Capela	Atlanta Hawks	C	06-Oct	256.0	Elan Chalon	20616000.0	216468
4	Bruno Fernando	Atlanta Hawks	F-C	06-Oct	240.0	Maryland	2581522.0	27105
...
586	Jordan Poole	Washington Wizards	G	06-Apr	194.0	Michigan	27955357.0	293531
587	Ryan Rollins	Washington Wizards	G	06-Mar	180.0	Toledo	1719864.0	18058
588	Landry Shamet	Washington Wizards	G	06-Apr	190.0	Wichita State	10250000.0	107625
589	Tristan Vukcevic	Washington Wizards	F	06-Oct	220.0	Real Madrid	0.0	
590	Delon Wright	Washington Wizards	G	06-May	185.0	Utah	8195122.0	86046

591 rows × 8 columns



In []: