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

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

```
In [5]:  nba
```

Out[5]:

	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 [6]:  nba.dropna(how='all')
```

Out[6]:

	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
...	...	...	...	...	...	...	...
586	Jordan Poole	Washington Wizards	G	6-4	194.0	Michigan	27955357.0
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 rows × 7 columns

```
In [7]:  nba.dropna(subset='College')
```

Out[7]:

	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
...	...	...	...	...	...	...	...
586	Jordan Poole	Washington Wizards	G	6-4	194.0	Michigan	27955357.0
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

578 rows × 7 columns

```
In [8]:  nba.Salary=nba.Salary.fillna(0)
```

```
In [9]:  nba
```

Out[9]:

	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	0.0
590	Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
591	NaN	NaN	NaN	NaN	NaN	NaN	0.0

592 rows × 7 columns

```
In [10]:  nba.College=nba.College.fillna('Unknown')
```

```
In [11]:  nba
```

Out[11]:

	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	0.0
590	Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0
591	NaN	NaN	NaN	NaN	NaN	Unknown	0.0

592 rows × 7 columns

In [12]:
```python
nba.loc[:,['Name','Team','Position']].head()
```

Out[12]:

	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 [13]:
```python
nba.loc[:,['Name','Team','Position']]
```

Out[13]:

	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
...	...	...	...
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	NaN	NaN	NaN

592 rows × 3 columns

In [15]:
```python
nba[['Name','Team','Position']].head()   #easier way to get
```

Out[15]:

	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 [17]:
```python
nba.loc[nba['Position']=="G",['Name','Team','Position']]
```

Out[17]:

	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
...	...	...	...
584	Kendrick Nunn	Washington Wizards	G
586	Jordan Poole	Washington Wizards	G
587	Ryan Rollins	Washington Wizards	G
588	Landry Shamet	Washington Wizards	G
590	Delon Wright	Washington Wizards	G

229 rows × 3 columns

In [18]:
```python
nba['Salary_in']=nba['Salary']*1.05
```

In [19]:
```python
nba
```

Out[19]:

	Name	Team	Position	Height	Weight	College	Salary	Salary_in
0	Saddiq Bey	Atlanta Hawks	F	6-7	215.0	Villanova	4556983.0	4784832.15
1	Bogdan Bogdanovic	Atlanta Hawks	G	6-5	225.0	Fenerbahce	18700000.0	19635000.00
2	Kobe Bufkin	Atlanta Hawks	G	6-5	195.0	Michigan	4094244.0	4298956.20
3	Clint Capela	Atlanta Hawks	C	6-10	256.0	Elan Chalon	20616000.0	21646800.00
4	Bruno Fernando	Atlanta Hawks	F-C	6-10	240.0	Maryland	2581522.0	2710598.10
...	...	...	...	...	...	...	...	...
587	Ryan Rollins	Washington Wizards	G	6-3	180.0	Toledo	1719864.0	1805857.20
588	Landry Shamet	Washington Wizards	G	6-4	190.0	Wichita State	10250000.0	10762500.00
589	Tristan Vukcevic	Washington Wizards	F	6-10	220.0	Real Madrid	0.0	0.00
590	Delon Wright	Washington Wizards	G	6-5	185.0	Utah	8195122.0	8604878.10
591	NaN	NaN	NaN	NaN	NaN	Unknown	0.0	0.00

592 rows × 8 columns

```
In [20]: data={'Name':['A','B','C','D','E','F','G'],'Reg_no':[101,102,103,104,105,106,107],'Cla
         df=p.DataFrame(data)
```

```
In [21]: df
```

Out[21]:

	Name	Reg_no	Class
0	A	101	2bba
1	B	102	3bba
2	C	103	4bba
3	D	104	5bba
4	E	105	1bba
5	F	106	6bba
6	G	107	2bba

```
In [26]: nba.iloc[:10,3]    #iloc is index location, 3 is the index of columns
```

```
Out[26]: 0      6-7
         1      6-5
         2      6-5
         3     6-10
         4     6-10
         5      6-4
         6      6-6
         7     6-11
         8      6-8
         9      6-8
         Name: Height, dtype: object
```

```
In [ ]:
```