In [3]:
```
pip install seaborn
```

```
Requirement already satisfied: seaborn in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (0.13.0)Note: you may need to restart the kernel to use updated packages.

[notice] A new release of pip is available: 23.2.1 -> 23.3.2
[notice] To update, run: python.exe -m pip install --upgrade pip
Requirement already satisfied: numpy!=1.24.0,>=1.20 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from seaborn) (1.26.2)
Requirement already satisfied: pandas>=1.2 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from seaborn) (2.1.4)
Requirement already satisfied: matplotlib!=3.6.1,>=3.3 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from seaborn) (3.8.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (1.2.0)
Requirement already satisfied: cycler>=0.10 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (4.47.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (1.4.5)
Requirement already satisfied: packaging>=20.0 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (23.2)
Requirement already satisfied: pillow>=8 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (10.1.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (3.1.1)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from matplotlib!=3.6.1,>=3.3->seaborn) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from pandas>=1.2->seaborn) (2023.3.post1)
Requirement already satisfied: tzdata>=2022.1 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from pandas>=1.2->seaborn) (2023.3)
Requirement already satisfied: six>=1.5 in c:\users\chand\appdata\local\programs\python\python312\lib\site-packages (from python-dateutil>=2.7->matplotlib!=3.6.1,>=3.3->seaborn) (1.16.0)
```

In [4]:
```
# importing libraries
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

In [ ]:
```
```

In [5]:
```
X = pd.read_csv('myexcel - myexcel.csv.csv')
X
```

Out[5]:

| | Name | Team | Number | Position | Age | Height | Weight | College | Salary |
|---|---|---|---|---|---|---|---|---|---|
| 0 | Avery Bradley | Boston Celtics | 0 | PG | 25 | 06-Feb | 180 | Texas | 7730337.0 |
| 1 | Jae Crowder | Boston Celtics | 99 | SF | 25 | 06-Jun | 235 | Marquette | 6796117.0 |
| 2 | John Holland | Boston Celtics | 30 | SG | 27 | 06-May | 205 | Boston University | NaN |
| 3 | R.J. Hunter | Boston Celtics | 28 | SG | 22 | 06-May | 185 | Georgia State | 1148640.0 |
| 4 | Jonas Jerebko | Boston Celtics | 8 | PF | 29 | 06-Oct | 231 | NaN | 5000000.0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 453 | Shelvin Mack | Utah Jazz | 8 | PG | 26 | 06-Mar | 203 | Butler | 2433333.0 |
| 454 | Raul Neto | Utah Jazz | 25 | PG | 24 | 06-Jan | 179 | NaN | 900000.0 |
| 455 | Tibor Pleiss | Utah Jazz | 21 | C | 26 | 07-Mar | 256 | NaN | 2900000.0 |
| 456 | Jeff Withey | Utah Jazz | 24 | C | 26 | 7-0 | 231 | Kansas | 947276.0 |
| 457 | Priyanka | Utah Jazz | 34 | C | 25 | 07-Mar | 231 | Kansas | 947276.0 |

458 rows × 9 columns

In [6]:
```
X['Height']= np.random. uniform(150,180,size=len(X))
X
```

Out[6]:

| | Name | Team | Number | Position | Age | Height | Weight | College | Salary |
|---|---|---|---|---|---|---|---|---|---|
| 0 | Avery Bradley | Boston Celtics | 0 | PG | 25 | 153.437925 | 180 | Texas | 7730337.0 |
| 1 | Jae Crowder | Boston Celtics | 99 | SF | 25 | 179.723947 | 235 | Marquette | 6796117.0 |
| 2 | John Holland | Boston Celtics | 30 | SG | 27 | 169.128990 | 205 | Boston University | NaN |
| 3 | R.J. Hunter | Boston Celtics | 28 | SG | 22 | 178.988713 | 185 | Georgia State | 1148640.0 |
| 4 | Jonas Jerebko | Boston Celtics | 8 | PF | 29 | 177.924821 | 231 | NaN | 5000000.0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 453 | Shelvin Mack | Utah Jazz | 8 | PG | 26 | 170.887286 | 203 | Butler | 2433333.0 |
| 454 | Raul Neto | Utah Jazz | 25 | PG | 24 | 160.126091 | 179 | NaN | 900000.0 |
| 455 | Tibor Pleiss | Utah Jazz | 21 | C | 26 | 169.520375 | 256 | NaN | 2900000.0 |
| 456 | Jeff Withey | Utah Jazz | 24 | C | 26 | 167.415906 | 231 | Kansas | 947276.0 |
| 457 | Priyanka | Utah Jazz | 34 | C | 25 | 161.662862 | 231 | Kansas | 947276.0 |

458 rows × 9 columns

## 1.How many are there in each Team and the percentage splitting with respect to the total employees.

In [7]:
```
Y=X['Team'].value_counts()
Z=(Y/len(X))*100
A=pd. DataFrame({'Count':Y, 'Percentage':Z})
A
```

Out[7]:

| Team | Count | Percentage |
|---|---|---|
| New Orleans Pelicans | 19 | 4.148472 |
| Memphis Grizzlies | 18 | 3.930131 |
| Utah Jazz | 16 | 3.493450 |
| New York Knicks | 16 | 3.493450 |
| Milwaukee Bucks | 16 | 3.493450 |
| Brooklyn Nets | 15 | 3.275109 |
| Portland Trail Blazers | 15 | 3.275109 |
| Oklahoma City Thunder | 15 | 3.275109 |
| Denver Nuggets | 15 | 3.275109 |
| Washington Wizards | 15 | 3.275109 |
| Miami Heat | 15 | 3.275109 |
| Charlotte Hornets | 15 | 3.275109 |
| Atlanta Hawks | 15 | 3.275109 |
| San Antonio Spurs | 15 | 3.275109 |
| Houston Rockets | 15 | 3.275109 |
| Boston Celtics | 15 | 3.275109 |
| Indiana Pacers | 15 | 3.275109 |
| Detroit Pistons | 15 | 3.275109 |
| Cleveland Cavaliers | 15 | 3.275109 |
| Chicago Bulls | 15 | 3.275109 |
| Sacramento Kings | 15 | 3.275109 |
| Phoenix Suns | 15 | 3.275109 |
| Los Angeles Lakers | 15 | 3.275109 |
| Los Angeles Clippers | 15 | 3.275109 |
| Golden State Warriors | 15 | 3.275109 |
| Toronto Raptors | 15 | 3.275109 |
| Philadelphia 76ers | 15 | 3.275109 |
| Dallas Mavericks | 15 | 3.275109 |
| Orlando Magic | 14 | 3.056769 |
| Minnesota Timberwolves | 14 | 3.056769 |

## 2.Segregate the employees w.r.t different positions.

In [8]:
```
pos=X ['Position'].value_counts()
pos
```

Out[8]:
```
Position
SG    102
PF    100
PG     92
SF     85
C      79
Name: count, dtype: int64
```

## 3.Find from which age group most of the employees belong to.

In [9]:
```
X['Age'].value_counts()
```

Out[9]:
```
Age
24    47
25    46
27    41
23    41
26    36
28    31
30    31
29    28
22    26
31    22
20    19
21    19
33    14
32    13
34    10
36    10
35     9
37     4
38     4
40     3
39     2
19     2
Name: count, dtype: int64
```

## 4.Find out under which team and position, spending in terms of salary is high.

In [10]:
```
sal=X[['Team','Position','Salary']]
sal
```

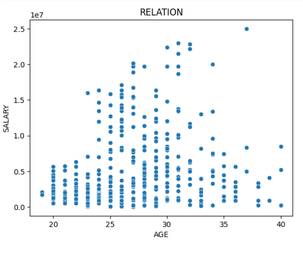
Out[10]:

| | Team | Position | Salary |
|---|---|---|---|
| 0 | Boston Celtics | PG | 7730337.0 |
| 1 | Boston Celtics | SF | 6796117.0 |
| 2 | Boston Celtics | SG | NaN |
| 3 | Boston Celtics | SG | 1148640.0 |
| 4 | Boston Celtics | PF | 5000000.0 |
| ... | ... | ... | ... |
| 453 | Utah Jazz | PG | 2433333.0 |
| 454 | Utah Jazz | PG | 900000.0 |
| 455 | Utah Jazz | C | 2900000.0 |
| 456 | Utah Jazz | C | 947276.0 |
| 457 | Utah Jazz | C | 947276.0 |

458 rows × 3 columns

## 5.Find if there is any correlation between age and salary , represent it visually.

In [16]:
```
sns.scatterplot(x="Age", y="Salary", data=X )
plt. xlabel ('AGE')
plt.ylabel('SALARY')
plt.title ("RELATION")
plt.show()
```



In [ ]: