```
1 C:\Users\ASUS\PycharmProjects\Entri\dhanyaProjects\.
   venv\Scripts\python.exe "C:\Users\ASUS\
   PycharmProjects\Entri\dhanyaProjects\Module_End
   Project.py"
 2 <class 'pandas.core.frame.DataFrame'>
 3 RangeIndex: 458 entries, 0 to 457
 4 Data columns (total 10 columns):
 5
        Column
                  Non-Null Count
                                 Dtype
        -----
 6 ---
                                  _ _ _ _ _
 7
                 458 non-null
   0
       Name
                                 object
                 458 non-null
                                 object
 8
   1
       Team
 9
   2
       Number
                458 non-null
                                 int64
   3
       Position 458 non-null
                                 object
10
11
   4
                 458 non-null
                                 int64
       Age
12
   5
       Height 458 non-null
                                 object
13
   6
       Weight
                 458 non-null
                                 int64
                 374 non-null
14
   7
       College
                                 object
15
                 447 non-null
   8
       Salarv
                                 float64
16
        height
                 458 non-null
   9
                                 int32
17 dtypes: float64(1), int32(1), int64(3), object(5)
18 memory usage: 34.1+ KB
19
               Name
                              Team
                                    Number
                   College
                               Salary height
20 0 Avery Bradley
                    Boston Celtics
                                         0
                            7730337.0
                                         166
                     Texas
                    Boston Celtics
                                        99
21 1
       Jae Crowder
                                         176
                 Marquette 6796117.0
      John Holland Boston Celtics
22 2
                                        30
                                                 Boston
                                            . . .
   University
                     NaN
                            157
23 3
        R.J. Hunter
                    Boston Celtics
                                        28
   Georgia State
                 1148640.0
                              171
24 4 Jonas Jerebko
                    Boston Celtics
                            5000000.0
                                         175
                       NaN
     . . .
25
26 [5 rows x 10 columns]
27 Team Distribution:
28 Team
29 New Orleans Pelicans
                            19
30 Memphis Grizzlies
                            18
31 Utah Jazz
                            16
32 Milwaukee Bucks
                            16
```

File - Module_End Project		
33	New York Knicks	16
34	Boston Celtics	15
35	Los Angeles Clippers	15
36	Los Angeles Lakers	15
37	Phoenix Suns	15
38	Sacramento Kings	15
39	Brooklyn Nets	15
40	Philadelphia 76ers	15
41	Toronto Raptors	15
42	Golden State Warriors	15
43	Indiana Pacers	15
44	Detroit Pistons	15
45	Cleveland Cavaliers	15
46	Chicago Bulls	15
47	Houston Rockets	15
48	San Antonio Spurs	15
49	Atlanta Hawks	15
50	Dallas Mavericks	15
51	Charlotte Hornets	15
52	Miami Heat	15
53	Denver Nuggets	15
54	Washington Wizards	15
55	Portland Trail Blazers	15
56	Oklahoma City Thunder	15
57	Orlando Magic	14
58	Minnesota Timberwolves	14
59	Name: count, dtype: int64	
60		
61	Team Percentage:	
	Team	
	New Orleans Pelicans	4.148472
	Memphis Grizzlies	3.930131
	Utah Jazz	3.493450
	Milwaukee Bucks	3.493450
67	New York Knicks	3.493450
	Boston Celtics	3.275109
	Los Angeles Clippers	3.275109
	Los Angeles Lakers	3.275109
	Phoenix Suns	3.275109
	Sacramento Kings	3.275109
73	Brooklyn Nets	3.275109

```
3.275109
 74 Philadelphia 76ers
 75 Toronto Raptors
                              3.275109
 76 Golden State Warriors
                              3.275109
 77 Indiana Pacers
                              3.275109
 78 Detroit Pistons
                              3.275109
 79 Cleveland Cavaliers
                            3.275109
 80 Chicago Bulls
                              3.275109
 81 Houston Rockets
                              3.275109
 82 San Antonio Spurs
                              3.275109
 83 Atlanta Hawks
                              3.275109
 84 Dallas Mavericks
                              3.275109
85 Charlotte Hornets
                              3.275109
 86 Miami Heat
                              3.275109
 87 Denver Nuggets
                              3.275109
                       3.275109
 88 Washington Wizards
                             3.275109
 89 Portland Trail Blazers
90 Oklahoma City Thunder
                              3.275109
 91 Orlando Magic
                              3.056769
 92 Minnesota Timberwolves
                              3.056769
 93 Name: count, dtype: float64
 94 Position Distribution:
 95
    Position
 96 SG
          102
97 PF
98 PG
          100
         92
99 SF
           85
100 C
          79
101 Name: count, dtype: int64
102 Age Group Distribution:
103 age_group
104 20-29
             346
105 30-39
              91
106 40-49
               0
107 50-59
               0
108 Name: count, dtype: int64
109 Highest Salary Expenditure by Team: Cleveland
    Cavaliers
110 Highest Salary Expenditure by Position: C
111 Correlation between Age and Salary: 0.
    21400941226570955
112
```

- 113 1. Team Distribution Insights:
- 114 The team distribution shows that the New Orleans Pelicans and Memphis Grizzlies have the highest representation in this dataset with 4.1% and 3.9% of employees, respectively.
- 115 Overall, most teams have an even distribution of around 3.3% of the workforce each.

116

- 117 2. Position Distribution Insights:
- 118 The most common positions are Shooting Guard (SG) and Power Forward (PF), which together make up a significant portion of the workforce.
- 119 Center (C) is the least represented position, which may indicate a higher demand for guards and forwards or their higher retention in teams.

120

- 121 3. Age Group Distribution Insights:
- 122 Most employees (346) are in the 20-29 age group, followed by 91 in the 30-39 range.
- 123 This reflects a younger workforce typical for highperformance roles like professional athletes, as no employees are aged 40 or older.

124

- 125 4. Salary Expenditure Insights:
- 126 The team with the highest salary expenditure is the Cleveland Cavaliers, suggesting they may prioritize investing in high-value players.
- 127 Among positions, Centers (C) have the highest total salary expenditure, likely due to the demand for this specific skill set.

128

- 129 5. Correlation between Age and Salary Insight:
- 130 The correlation between age and salary is 0.21, which shows a weak positive relationship.
- 131 This indicates that salary tends to increase slightly with age, but age alone is not a strong predictor of salary. Performance, experience, and position likely play a larger role.

132

133 Process finished with exit code 0

134