S	Weight 458 non-null int64 7 College 374 non-null object 8 Salary 447 non-null float64 8 Sypes: float64(1), int64(3), object(5) 9 Emory usage: 32.3+ KB  DATA CLEANING AND PREPROCESSING  Step 1:  Since the 'Height' column given in the data is wrong data, as per the requirement we will generate random integers between 150 and 180 using randint function from random module.  Idata['Height']=np.random.randint(150,181,size=len(data)) ## helps to generate random integers between 150 and 180 for height column
]: d	data['Height']=data['Height'].astype(int)  ## changes datatype of height to integer from object  data.isnull().sum() ## to find the total number of null values in each column  Name
P F V C C S	Name 0.000000 Team 0.000000 Number 0.000000 Position 0.000000 Age 0.000000 Height 0.000000 Weight 0.000000 College 18.340611 Salary 2.401747 dtype: float64  Step2: Since we have about 84 null values and 11 null values in College and Salary column respectively, we can replace the NA values in College column with 'Not Provided' and Salary column with
n]:: s s s s s s s s s s s s s s s s s s	median value for analysis purposes.  salary_median=data['Salary'].median() salary_median  2836186.0  data.fillna({'Salary': salary_median}, inplace=True) #replace NA rows in 'Salary' column with median salary  data.fillna({'College': 'Not Provided'}, inplace=True) #replace NA rows in 'College' column with 'Not provided'  data.isnull().mean() #null values has been become 0.
1	Name 0.0 Team 0.0 Number 0.0 Position 0.0 Age 0.0 Height 0.0 Weight 0.0 College 0.0 Salary 0.0 dtype: float64  Clata.columns  Index(['Name', 'Team', 'Number', 'Position', 'Age', 'Height', 'Weight', 'College', 'Salary'],
1 t t t t t ]:	ANALYSIS  1. Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative to the total number of employees.    Determine the distribution of employees across each team and calculate the percentage split relative
	New Orleans Pelicans   19
]: e e e e e e e e e e e e e e e e e e e	Minnesota Timberwolves   4
C	Denver Nuggets 3.28 Oklahoma City Thunder 3.28 Protland Trail Blazers 3.28 Brooklyn Nets 3.28 Orlando Magic 3.06 Minnesota Timberwolves 3.06 Name: count, dtype: float64  employees_teamwise.count()  30  Dear_chart_data=pd.DataFrame(employees_teamwise_percent).reset_index() Dear_chart_data
1 1 1 1 1 1 1 2 2 2 2 2 2	New Orleans Policans   4:5   Merephis Clarise   4:5   Merephis Claris
2 2 2 ]: s p p p	Orlando Magic 3.06  29 Minnesota Timberwolves 3.06  sns.barplot (bar_chart_data, x="Team", y="count", color="b") plt.title ("Employees Representation teamwise") plt.xlabel ("Teams") plt.ylabel ("Employee percentwise") plt.xticks (rotation=90) plt.grid (True) plt.show()
Employee percentwise	2.0
F p T 2	From the data we can infer that there are 30 teams and among that Team "New Orleans Pelicans" has the most number of employees which is 4.15% out of a total of 458 employees. Most of the teams have same employee rate of the teams have same employee and "Orlando Magic" has the least team members which is 3.06%.  2. Segregate employees based on their positions within the company.    Position   Count
p p	
3 ]: h	Out of 458 employees,22.3% which amounts to a count of 102 are in SG position whereas only 17.2 % are in C position. We can infer that alemployee ratio in each position is almost same and there is no much variability.  3. Identify the predominant age group among employees.  hist_plot_data=pd.DataFrame(data['Age'])  sns.histplot(data=hist_plot_data, x='Age', bins=1, binwidth=1) plt.title("Prominent Age Group among the Employees") plt.xlabel("Age Group") plt.ylabel("Number of employees") plt.ylabel("Number of employees") plt.xticks(np.arange(15, 45, step=10), fontsize=10)
p	Prominent Age Group among the Employees  10  10  10  10  10  10  10  10  10  1
1 1 1	**************************************
12]: s	148 Orlando Magic SF 845059.0  49 rows × 3 columns  salary_expenditure_teamwise.head(1)  Team Position Salary  0 Los Angeles Lakers SF 31866445.0  data.groupby(['Team'])['Salary'].sum().sort_values(ascending=False).reset_index().head(5)  Team Salary  Team Salary
3	Cleveland Cavaliers 109824875.0  Los Angeles Clippers 94854640.0  Oklahoma City Thunder 93765298.0  Golden State Warriors 88868997.0
]:	C 466377332.0  PG 458193715.0  PF 451069408.0  SF 410857162.0
р	

Among the same age group(30-35), there is high variability in the salaries of the employees implying that attributes other than age like job position, company and experience contribute to their high/low salaries.

Most of the individuals draw salary below 10 M irrespective of their age.