Hiring Process Analytics

Introduction:

Hiring process is the fundamental and the most important function of a company. Here, the MNCs get to know about the major underlying trends about the hiring process. Trends such as-number of rejections, number of interviews, types of jobs, vacancies etc. are important for a company to analyse before hiring freshers or any other individual.

As a Data Analyst, it is important to find good trends in the Hiring data set so as to enable the senior managers to fill in the vacant seats if available with the right amount of salary provided to each individual.

Approach (Exploratory Data Analysis):

1. Step 1:

In this step the data is to be cleaned. Exploratory data analysis is performed to remove the date column as it is unnecessary to provide the answers to the given questions.

2. Step 2:

In this step, box plot of seaborn library is used to check the outliers. It is found that the Salaries between 1000 and 1.00.000 are the necessary values. The other records are deleted.

3. Step 3:

In this step, the null value of Offered Salary column is handled by replacing it with the mean. The missing values of the gender are left unhandled as that does not contribute much in the assessment as compared to the numeric values.

4. Step 4:

The table is checked for any duplicate values. There are no duplicate values and now the data summary is drawn by using **pivot Tables.**

5. Step 5:

I formed five pivot tables in new excel sheets to draw insights.

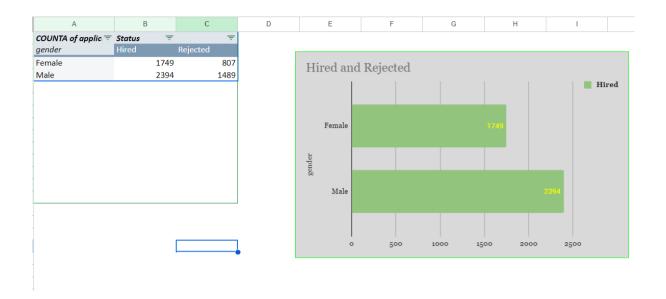
Tech Stack Used:

- 1. Google Sheets: The pivot tables and formulas in google sheets are used to draw Insights.
- 2. YouTube: YouTube videos are used to gather information on how to apply pivot tables.
- 3. Chat GPT: To search for any doubts and data.
- 4. Python and Pandas: Used for **EDA**

Insights:

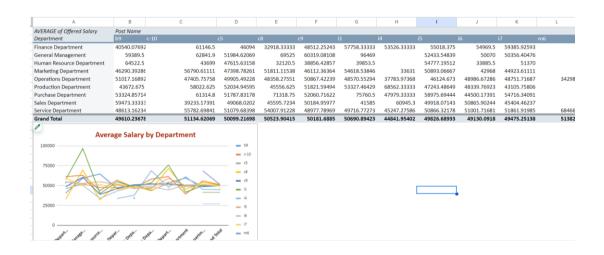
1. Hiring: Process of intaking of people into an organization for different kinds of positions.

Your task: How many males and females are Hired?



2. Average Salary: Adding all the salaries for a select group of employees and then dividing the sum by the number of employees in the group.

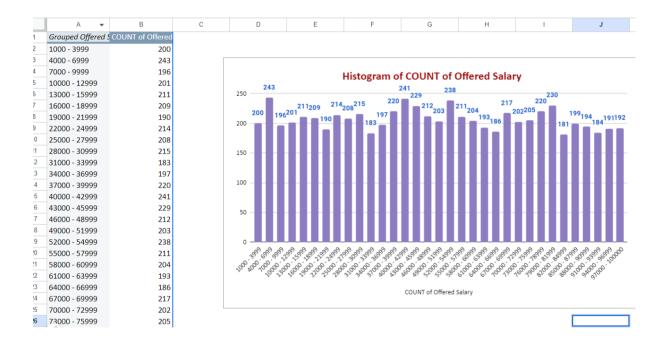
Your task: What is the average salary offered in this company?



	application_id	Offered Salary
count	7168.000000	7168.000000
mean	508648.534459	49983.029018
std	285146.164429	28852.163831
min	12073.000000	100.000000
25%	262283.500000	25463.750000
50%	508025.000000	49628.000000
75%	757345.250000	74429.000000
max	999936.000000	400000.000000

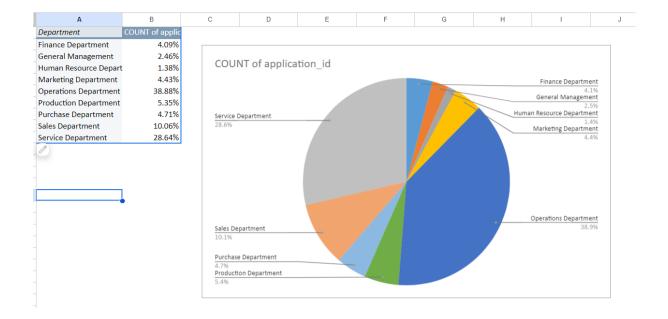
3. Class Intervals: The class interval is the difference between the upper-class limit and the lower class limit.

Your task: Draw the class intervals for salary in the company?



4. Charts and Plots: This is one of the most important part of analysis to visualize the

Your task: Draw Pie Chart / Bar Graph (or any other graph) to show proportion of people working different department?

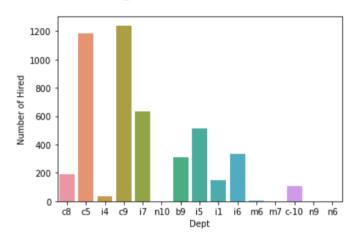


5. Charts: Use different charts and graphs to perform the task representing the data. Your task: Represent different post tiers using chart/graph?



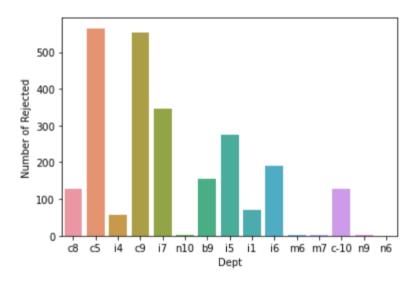
```
sns.barplot(x = 'Dept', y = 'Number of Hired', data = new_stats)
```

<matplotlib.axes._subplots.AxesSubplot at 0x1d9c72519a0>



```
sns.barplot(x = 'Dept', y = 'Number of Rejected', data = new_stats)
```

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Results:

- 1. **Insight 1**: The male counter parts are hired more than the females. The data shows that 25% more males are working in the company than the females.
- 2. **Insight 2**: The average salary of each department is shown and different filters can be used to see which department is spending the maximum amount in terms of salaries. The post c-10 is allocated highest number of salaries.
- 3. **Insight 3**: A new pivot rule is used for creating class intervals and a histogram is created to display the count of salaries offered in the particular range.
- 4. **Insight 4**: The number of people working in each department is portrayed using pie chart with each slice representing the percentage of the total number of employees available

5. **Insight 5**: The different charts represent the number of employees in each post tier. c9 is the largest tier with 1695 employees followed by c5.

Learnings:

- 1. Pivot tables, filters, aggregates and groupings
- 2. Charts and customization of charts
- 3. Exploratory Data Analysis using Google sheets and Python.