Hiring Process Analytics

Project Description

The hiring process is the foundational and crucial part of a business. The MNCs learn about the key underlying trends relating to the hiring process here. Before hiring freshmen or anybody else, a corporation should consider trends such as the number of rejections, interviews, sorts of jobs, openings, etc. This kind of research is essential for a company's hiring department to obtain the appropriate insights from the data.

I'm going to gather the following information for this project:

- A. Number of males and females hired in the company.
- B. Average salary offered by the company in various departments.
- C. Finding the class interval for salary in the company.
- D. Creating a graph to show proportion of people working in different departments.
- E. Creating a bar graph to show different number of posts.

Approach

First, I examined the data set, including all of the various categories in the sheet like various departments, statuses, genders, various posts/tiers and range of salaries offered, to gain a sense of the information accessible to me. Then, after sorting the salary offered column in ascending and descending order, I looked at the outliers to determine the lowest and highest salaries in the range. Then, after learning about the salary data outliers, I discovered the average omitting these outliers. Then I examined and comprehended all of the questions asked and summarized my method to solving these questions. Then I applied various methods and formulas in excel sheet and solved the questions.

Tech-Stack Used

I selected Microsoft Excel v2013 to find the answers to the questions and to make all the graphs and charts.

Insights

I learned how data analysts analyze a company's hiring process trends. Working with the hiring team, analysts can derive numerous helpful insights from the collected data, allowing them to forecast the information about number of openings in the company for various departments and roles/posts, number of hiring, range of salaries offered to various departments and tiers, etc.

Result

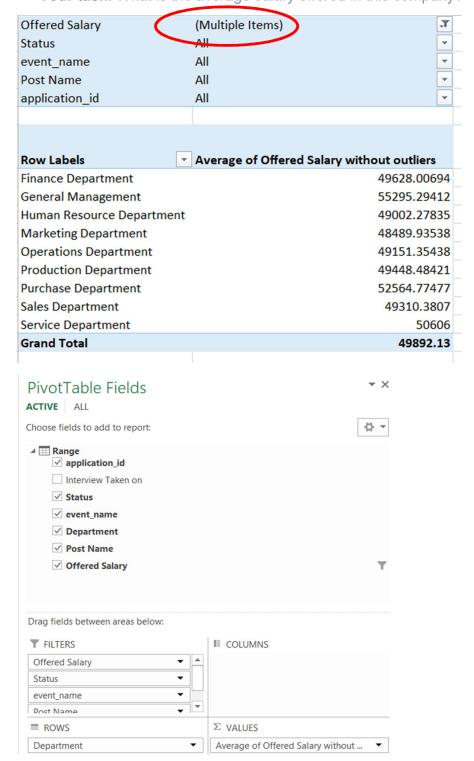
By completing this project, I was able to solidify my understanding of numerous statistics principles and various Excel formulas and functions used for statistics such as finding sum, average, using Pivot tables for categorizing the data, drawing class intervals and for finding distinct or unique counts and to find average by category, also creating various charts and graphs for the data to visualize the proportion of numerical data which will be helpful for others to easily understand the trends in hiring process of the company. It assists me in honing my statistics and excel skills.

Finding Outliers

Department	Post Name	Offered Salary
Service Department	i5	100
Service Department	m6	800
Marketing Department	c9	1007
General Management	i7	1022
Operations Department	c9	1027
Service Department	c8	1035
Finance Department	c5	1038
Service Department	c8	1042
Service Department	i6	1074
Service Department	c5	1079
Service Department	b9	1105
Finance Department	c5	1141
Operations Department	c5	1155
Operations Department	c9	1177
Operations Department	b9	1185
Service Department	c9	1188
7460 O		2220
7160 Operations Departme		99929
7161 Production Departme		99939
7162 Operations Departme		99948
7163 Service Department	c9	99950
7164 Service Department	c9	99953
7165 Service Department	c8	99967
7166 Service Department	b9	200000
7167 General Management		300000
7168 General Management	i4	400000

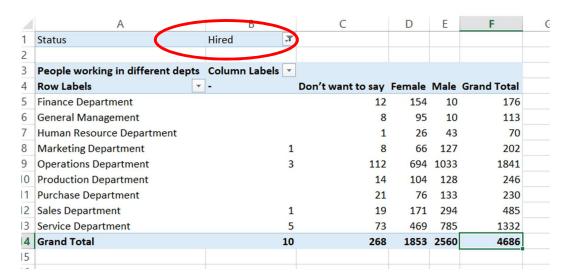
After omitting these outliers by filtering, I found the average of salaries offered in various departments using pivot table as shown below.

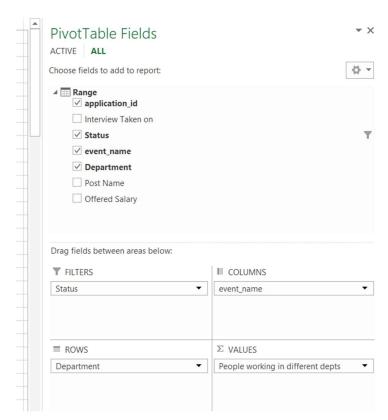
 Average Salary: Adding all the salaries for a select group of employees and then dividing the sum by the number of employees in the group.
Your task: What is the average salary offered in this company?



2. **Hiring:** Process of in taking of people into an organization for different kinds of positions.

Your task: How many males and females are hired?





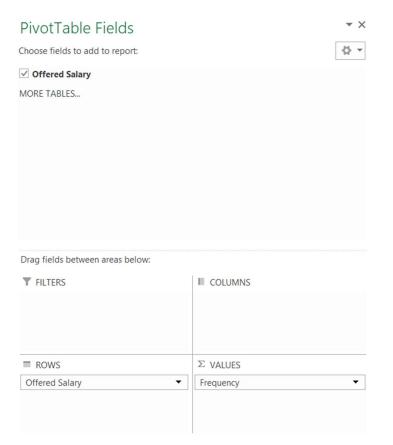
Males- 2560

Females- 1853

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

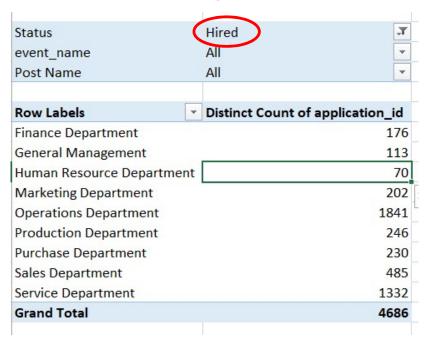
Your task: Draw the class intervals for salary in the company?

Class Intervals of salary Fre	quency
<1000 or (blank)	(2)
1000-9999	676
10000-18999	654
19000-27999	646
28000-36999	625
37000-45999	719
46000-54999	678 Outliers
55000-63999	636
64000-72999	639
73000-81999	683
82000-90999	610
91000-100000	596
>100000	(3)*
Grand Total	7167

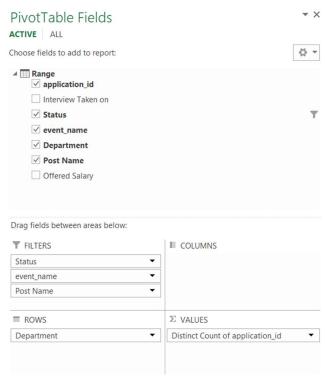


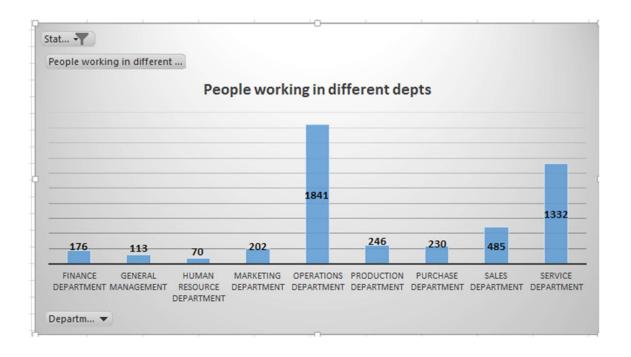
4. **Charts and Plots:** This is one of the most important part of analysis to visualize the data.

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



Counting only working people, so filtering with status; hired.





5. **Charts:** Use different charts and graphs to perform the task representing the data.

Your task: Represent different post tiers using chart/graph?

