

Project4: Hiring Process Analytics

Project Description: Imagine you're a data analyst at a multinational company like Google. Your task is to analyze the company's hiring process data and draw meaningful insights from it. The hiring process is a crucial function of any company, and understanding trends such as the number of rejections, interviews, job types, and vacancies can provide valuable insights for the hiring department.

Approach:

1. Download the dataset
2. Handling missing data in event_name and post_name columns etc.
3. Use excel formulas for analysis.
4. Showcase results in easy format.

Tech-Stack Used: I used MS-excel 2019 for analysis.

Insights: On analysing the data, I found that males are hired more in comparison to female, also average salary of employees is ~50k/- with a maximum number of people having a salary of around ~74800/-. A maximum number of people work in the Operations department on the post C9.

Link to the excel sheet: https://docs.google.com/spreadsheets/d/1G5kS-I5Ro_zH_7gN0SO61zwpL58Tw0k9/edit?usp=sharing&ouid=115109770037321084146&rtpof=true&sd=true

Data Analytics tasks:

Exploratory data Analysis:

Total data points:	7169
Datapoints after missing values removed:	7167
Missing values:	2
Descriptive analysis (offered salary):	
Mean	49983.02902
Median	49625
Mode	72843
Standard Deviation (Population):	28852.16383
Variance (Population):	832447357.7
Maximum:	400000
Minumum:	100
Range:	399900
Count:	7167

Removal of Outliers:

On analysis using Inter-Quartile Range, the number of outliers found is 3.

Q1	Q3	IQR	Upper limit	Lower Limit
25463.75	74429	48965.25	147876.875	0

A. Hiring Analysis: The hiring process involves bringing new individuals into the organization for various roles.

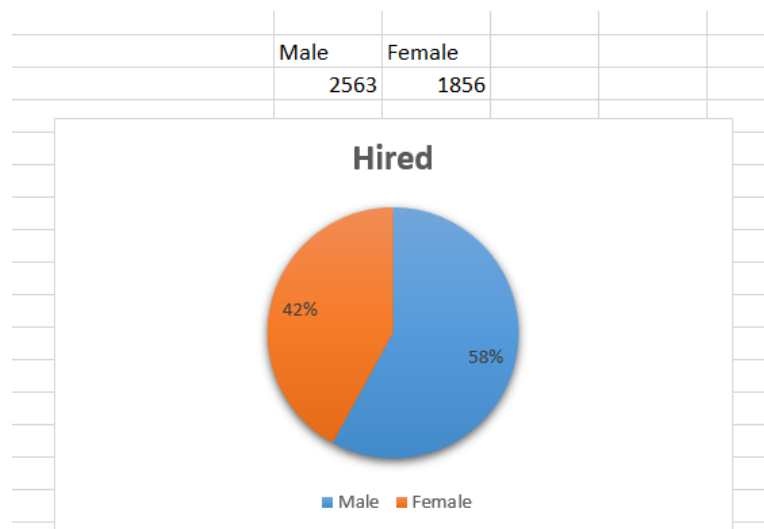
Your Task: Determine the gender distribution of hires. How many males and females have been hired by the company?

Excel formula used:

```
=COUNTIFS(D:D, "Male", C:C, "Hired")
```

```
=COUNTIFS(D:D, "Female", C:C, "Hired")
```

Result and Insight: On finding the gender distribution, I found that Males hired are 58% of the total while rest 42% are females as shown below.



B. Salary Analysis: The average salary is calculated by adding up the salaries of a group of employees and then dividing the total by the number of employees.

Your Task: What is the average salary offered by this company? Use Excel functions to calculate this.

Excel formula used:

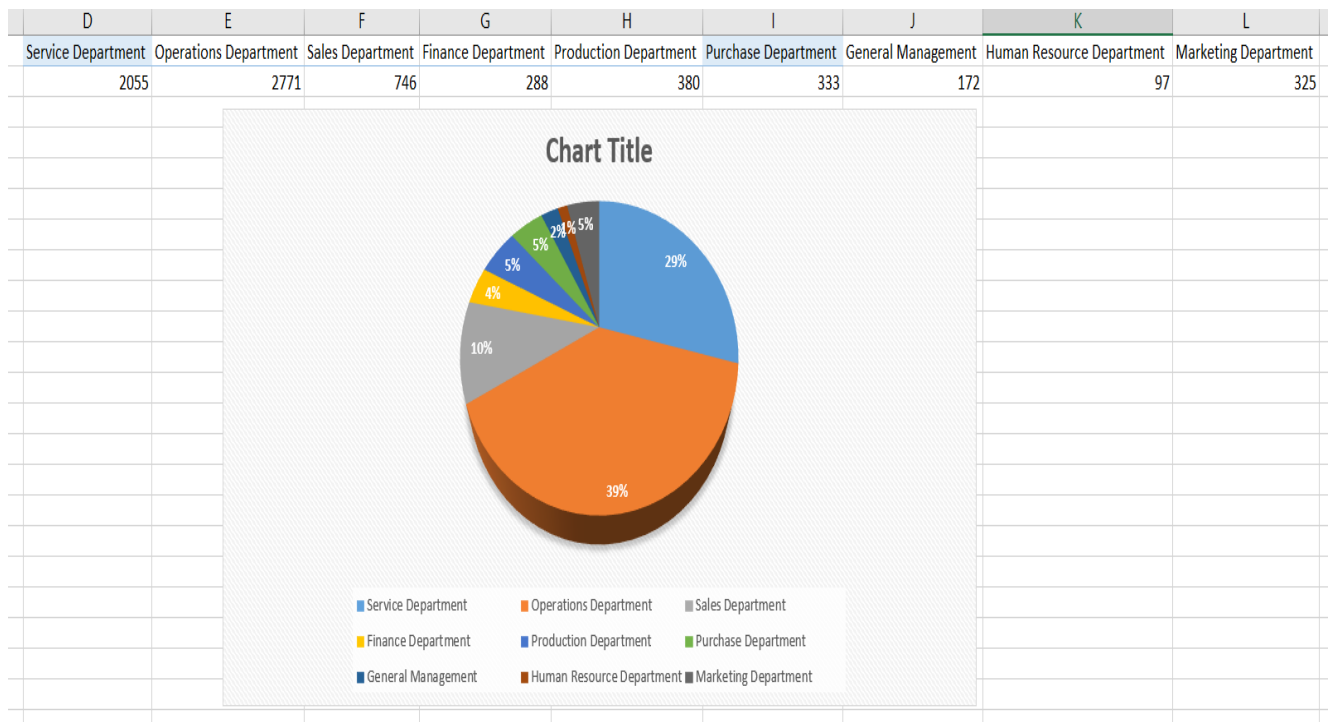
77800-78799	73
78800-79799	68
79800-80799	79
80800-81799	81
81800-82799	55
82800-83799	59
83800-84799	67
84800-85799	61
85800-86799	65
86800-87799	66
87800-88799	74
88800-89799	60
89800-90799	58
90800-91799	66
91800-92799	60
92800-93799	57
93800-94799	64
94800-95799	64
95800-96799	68
96800-97799	55
97800-98799	73
98800-99799	54
99800-100799	14
199800-200799	1
299800-300799	1
399800-400799	1
Grand Total	6760

69800-70799	72
70800-71799	56
71800-72799	74
72800-73799	72
73800-74799	56
74800-75799	85
75800-76799	71
76800-77799	64
77800-78799	73

D. Departmental Analysis: Visualizing data through charts and plots is a crucial part of data analysis.

Your Task: Use a pie chart, bar graph, or any other suitable visualization to show the proportion of people working in different departments.

Result and Insights:



As we can see the maximum contribution here is from the Operations department with 2771 (39%) people and the least people work in the Human Resource Department with 97 (1%) people.

E. Position Tier Analysis: Different positions within a company often have different tiers or levels.

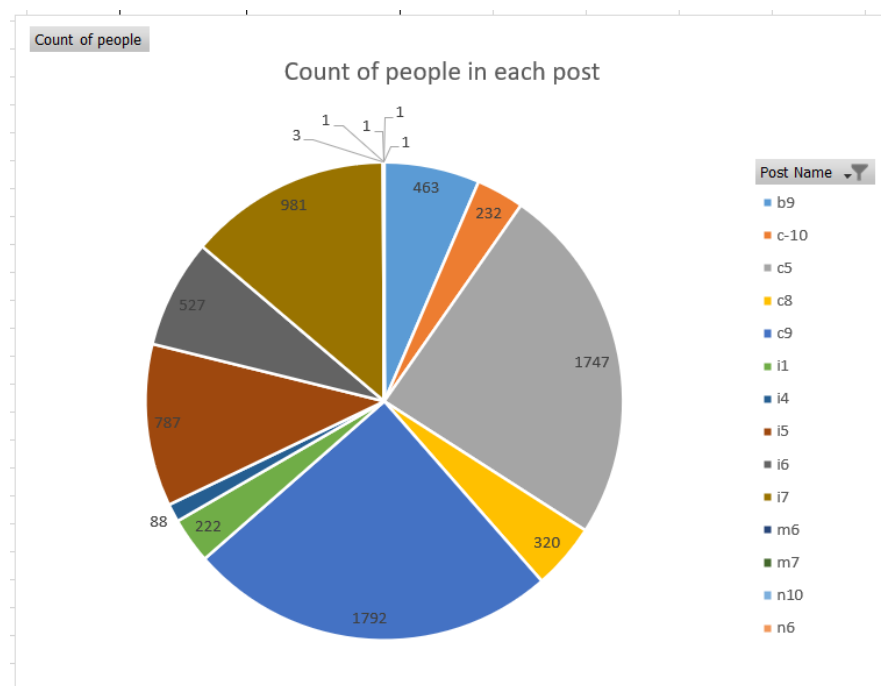
Your Task: Use a chart or graph to represent the different position tiers within the company. This will help you understand the distribution of positions across different tiers.

Results and Insights:

Creating a Pivot table with rows as Post names and count of People with each row

F	G
Post name	Count of people
-	1
b9	463
c-10	232
c5	1747
c8	320
c9	1792
i1	222
i4	88
i5	787
i6	527
i7	981
m6	3
m7	1
n10	1
n6	1
n9	1
Grand Total	7167

Pie chart:



As we can see in the pie chart Maximum number of people are at “C9” position and minimum number of people are at “M7”, “N10”, “N6”, “N9” with people count as 1.