HIRING PROCESS ANALYTICS

-STATISTICS



Agenda

- Project Description
- Approach
- Tech-Stack Used
- Insights
- Result



PROJECT DESCRIPTION

- The project is all about analyzing the company's hiring process data and drawing meaningful insights from it. The Hiring process is a crucial function for a company, and understanding trends such as some rejections, job types, and offered salaries can provide valuable insights for the hiring department.
- The project data is given in an Excel sheet, it should be cleaned and made ready to analyze the data.

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TECH STACK USED

Software: Microsoft Excel

A spreadsheet application by Microsoft used for data analysis, visualization, and automation with formulas, charts, and VBA.

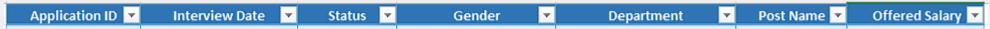
Operating System: Windows

A widely used OS by Microsoft, known for its user-friendly interface, multitasking, and software compatibility.

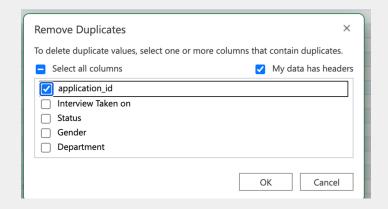


APPROACH

- To analyze any data, we should first clean the data like empty blanks, duplicates, null values, design, Outlier Detection etc.
- So I started cleaning the given data
- I followed the below steps for cleaning the data 1) Firstly I have converted the raw data into table format.
- 2)I analysed the given columns, I have changed one column name event_name to Gender.



3)I checked for duplicates







4)And then I have found the Outliers

Q1: =quartile(range,1)

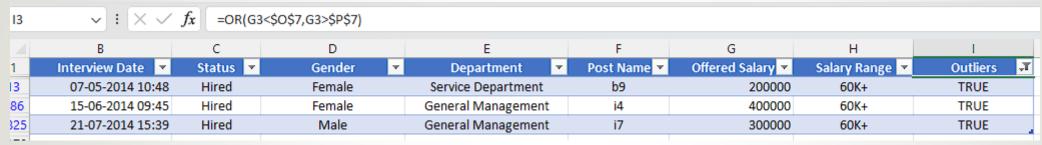
Q3: =quartile(range,3)

IQR: =Q3-Q1

Lower bound: Q1-(1.5*IQR)

Upper bound: Q3+(1.5*IQR)

Outlier Detection		
Q1	25582.25	
Q3	74418.5	
IQR	48836.25	
LowerBound	-47672.125	
UpperBound	147672.875	
No.Of.Outliers	0	
No.Of.Normals	7138	



I have created new columns to find the outliers and then I filtered only TRUE outliers, I found 3 outliers and deleted them.

5) Also I have searched if there are any empty blank in the entire dataset by Shortcut CTRL+G

select table - select special – select blanks – ok

You can see the highlighted empty blanks I found a single empty blank in salary column G80 rather than deleting the entire column I found average of the entire salary using the formula =ROUND(AVERAGE(H1:H7139),0) and I have pasted the value in the blank.

6) And also there are some cells in the Gender like (-) without any gender there I have filtered it and filled with "Don't want to say" and single cell in the Post_name with the value (-) I replaced with c9 bcz it is most recurring.

DATA ANALYTIC TASKS:

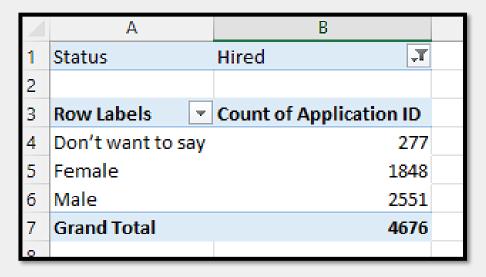
A. Hiring Analysis: The hiring process involves bringing new individuals into the organization for various roles.

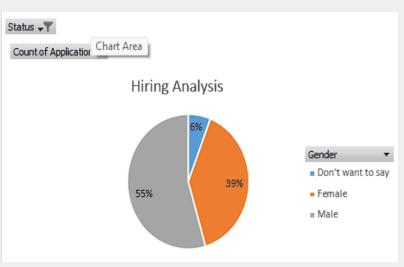
Your Task: Determine the gender distribution of hires. How many males and females have been hired by the company?

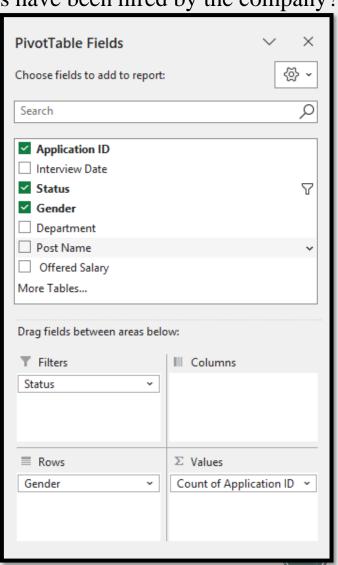
ANS:

To do this Question I have used Pivot Table for gender Distribution of Hired

select table - insert - Pivot table







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.

ANS:

To do this Question I have used

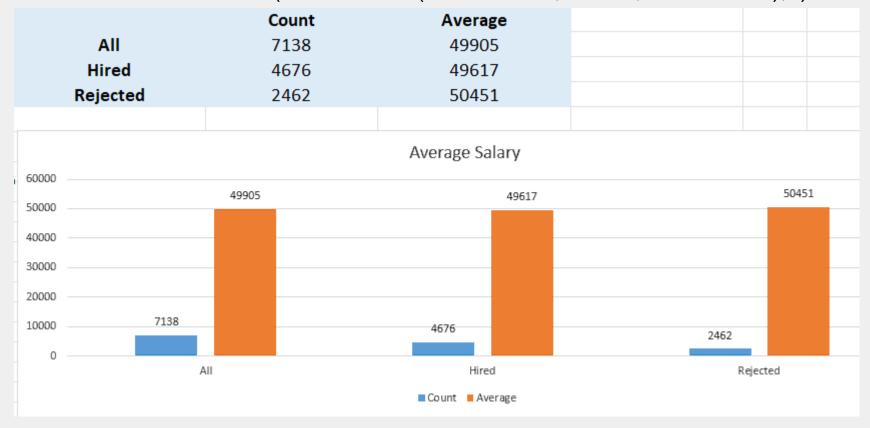
=COUNT(DATASET!B:B)

=ROUND(AVERAGE(Dataset!H:H),0)

=COUNTIF(Dataset!D:D, "Hired")

=ROUND(AVERAGEIF(Dataset!D:D,"Hired",Dataset!H:H),0) for hired average

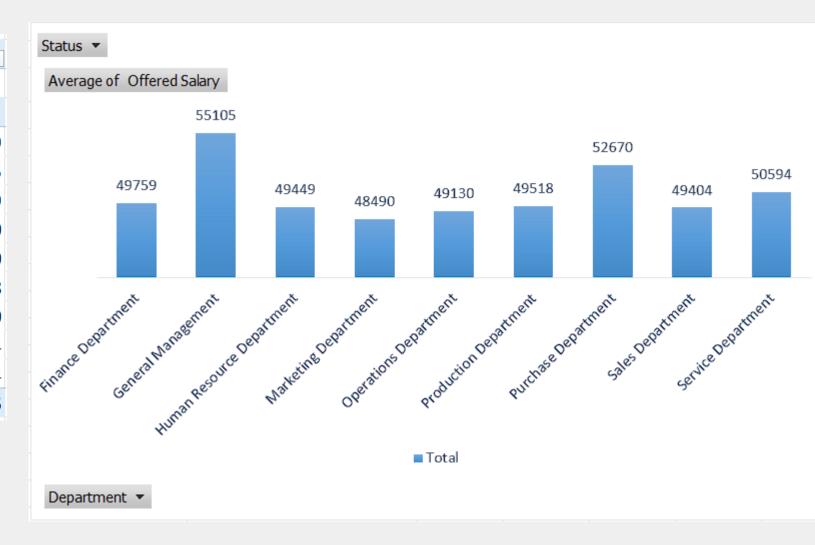
for All Count for All Average for hired Count





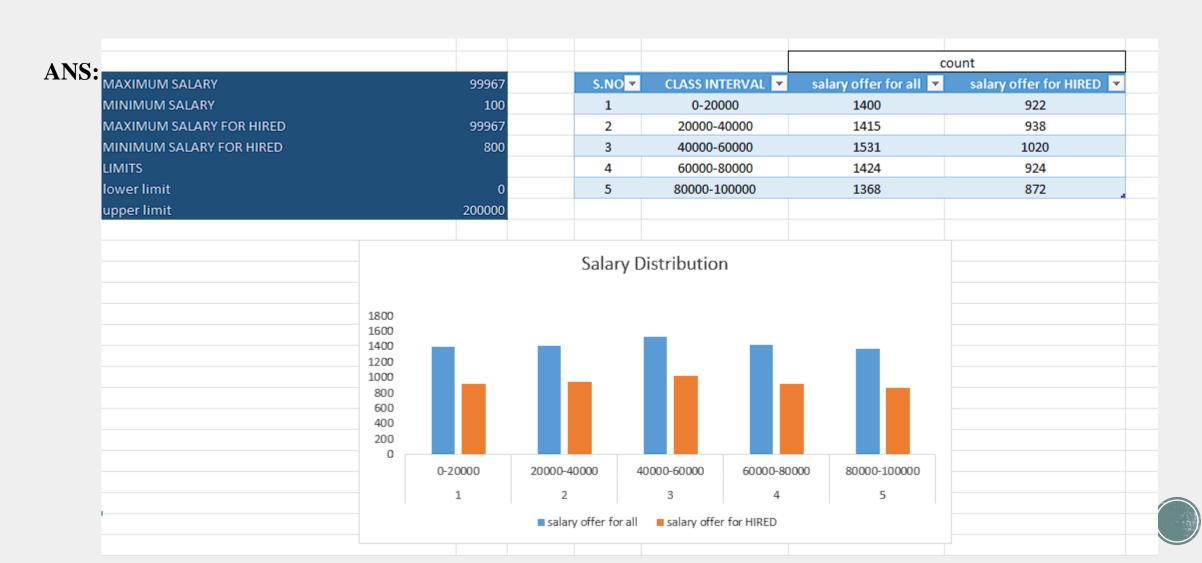
☐ Department wise salary averages

(AII)	▼
Average of	Offered Salary
	49759
	55105
	49449
	48490
	49130
	49518
	52670
	49404
	50594
	49905
	→ Average of



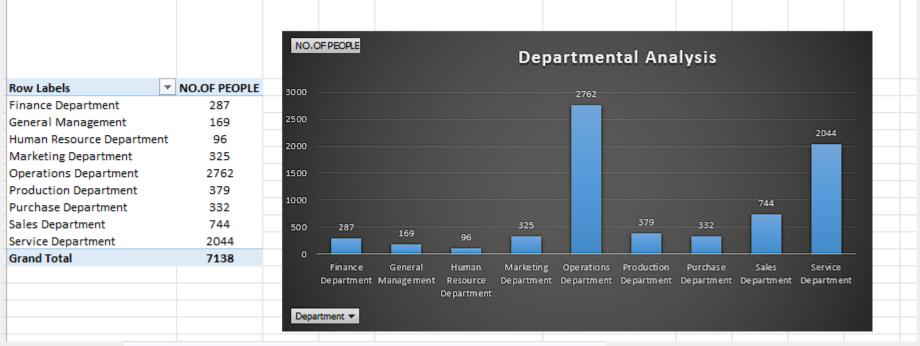


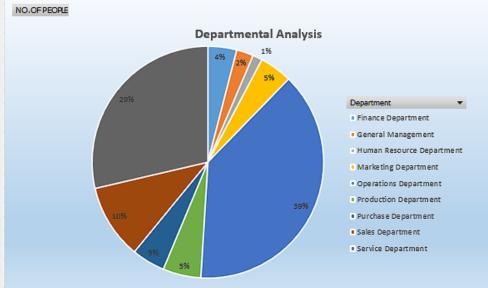
3. C. Salary Distribution: Class intervals represent ranges of values, in this case, salary ranges. The class interval is the difference between the upper and lower limits of a class. Your Task: Create class intervals for the salaries in the company. This will help you understand the salary distribution.



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

ANS:

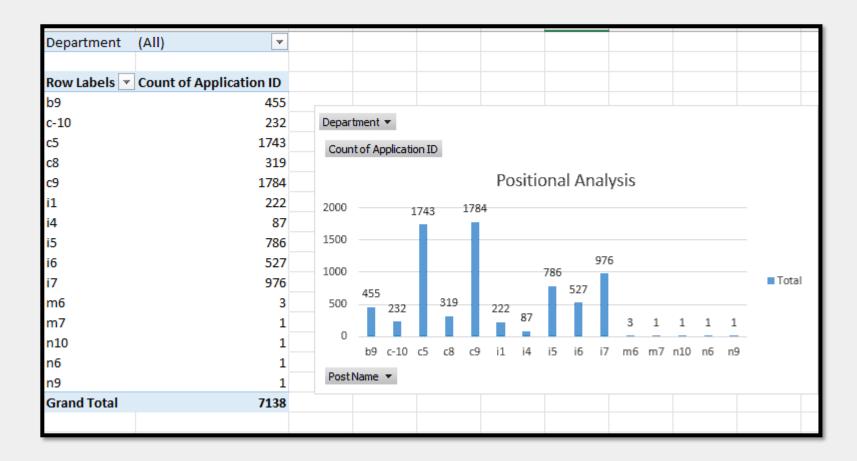


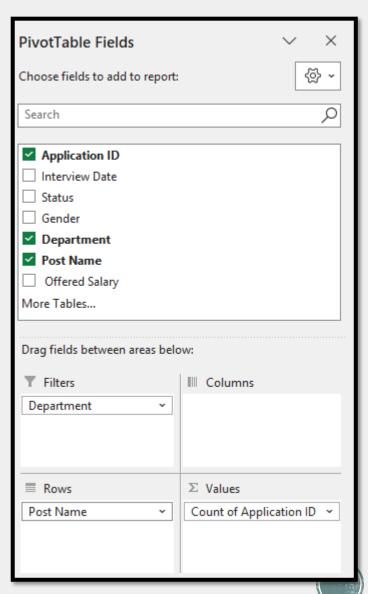




5) Position Tier Analysis:

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.





REFERENCE LINK:

The link for excel sheet file:

HiringProcessAnalytics.xlsx



INSIGHTS

- **A. Hiring Analysis:** Identified gender distribution among hires to evaluate diversity in recruitment.
- **B. Salary Analysis:** Calculated the average salary offered across different roles and levels to assess pay trends.
- **C. Salary Distribution:** Created salary class intervals to understand income segmentation and salary structure.
- **D. Departmental Analysis:** Examined hiring proportions across various departments to identify workforce allocation trends.
- **E. Position Tier Analysis:** Analyzed the distribution of hires across entry, mid, and senior levels to assess career growth patterns.



RESULT

In this project, I analyzed the hiring data of a company, focusing on data cleaning, preprocessing, and in-depth analysis of the dataset.

I utilized various charts and graphs to visualize the data, providing meaningful insights that aid in decision-making for hiring strategies, salary structuring, and workforce planning. This analysis helped in optimizing HR policies and improving recruitment efficiency.





