# HIRING DATA ANALYSIS

**PROJECT 4** 

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## **Project Description**

Here's the revised version of your text with corrected grammar, spelling, and improved clarity:

The Hiring Data Project

This project allows us to take on the role of a data analyst at a multinational company. The task involves analyzing the company's hiring process data and drawing meaningful insights from it. The hiring process is a critical function for any company, and understanding trends such as the number of rejections, interviews, job types, and vacancies can provide valuable insights for the hiring department.

The project leverages our knowledge of statistics and Excel to extract and interpret important conclusions about the company's hiring process. The analysis covers various aspects, including salary trends, salary distribution, departmental insights, and position-tier analysis.

# Approach

We approach this project with the mindset of an analyst, utilizing our skills to derive meaningful insights from the data.

- 1. Data Cleaning:
  - The first task is to understand and clean the dataset by removing blanks and outliers. Proper data preparation ensures accurate and reliable analysis.
- 2. Data Understanding:
  - Before performing any specific tasks, we thoroughly study the dataset to gain a deeper understanding. This helps us make informed decisions during the analysis phase.
- 3. Excel Implementation:
  - Excel provides various tools and methods for analysis. We use formulas for certain tasks and pivot tables for others to explore the data efficiently.

The ultimate goal of this project is to draw meaningful insights from a large dataset, providing valuable recommendations for improving the hiring process.

# Tech-Stack Used

MS excel

MS word



# Insights

The analysis of the hiring process revealed the following key findings and trends:

#### 1. Gender Distribution

- Hires: Out of 4,419 hires, 1,856 were female, and 2,563 were male. This indicates a higher hiring rate for males compared to females.
- Rejections: The rejection rate also follows a similar pattern, with 1,522 males rejected compared to 819 females.
- Overall: Males constitute approximately 60.4% (4,085) of the total candidates evaluated, while females make up 39.6% (2,675). This highlights a potential gender imbalance in the hiring process that may warrant further investigation.

#### 2. Salary Analysis

- Average Salary: The overall average salary offered is 49,919.64, indicating the company's median pay range.
- Department-Wise Insights:
  - The General Management department offers the highest average salary at 57,152.33, which could indicate the strategic importance of these roles.
  - The Marketing Department offers the lowest average salary at 48,489.94, suggesting that these roles may require less specialized skills or responsibilities compared to others.
  - Other departments, such as Finance, Service, and Purchase, are near or slightly above the overall average.

#### 3. Departmental Analysis

- The largest workforce is employed in the Operations Department (2,771 employees), followed by the Service Department (2,055). Together, they account for a significant portion of the company's workforce.
- Marketing and Purchase Departments also have a notable representation but are smaller compared to Operations and Service.
- The Human Resources Department has the fewest employees (97), likely because it is a supporting function with a smaller scope.

#### **General Observations**

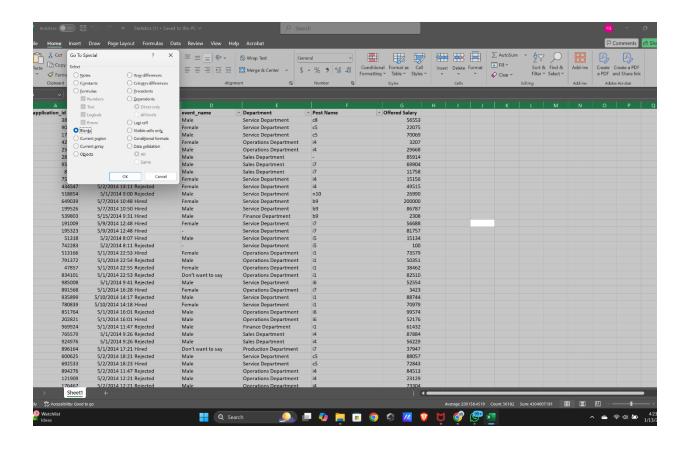
- The data suggests a focus on operational efficiency, with most employees allocated to Operations and Service, which are likely the company's core functions.
- There is room for improvement in gender diversity, as males dominate both hiring and overall workforce representation.

• Departments offering higher average salaries, such as General Management and Purchase, likely focus on critical decision-making roles that directly impact business outcomes.

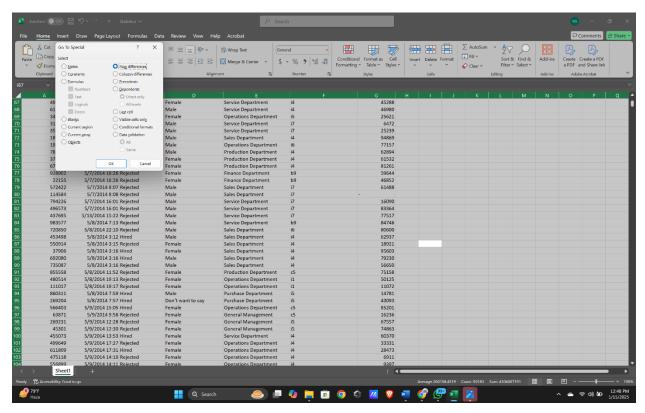
### Result

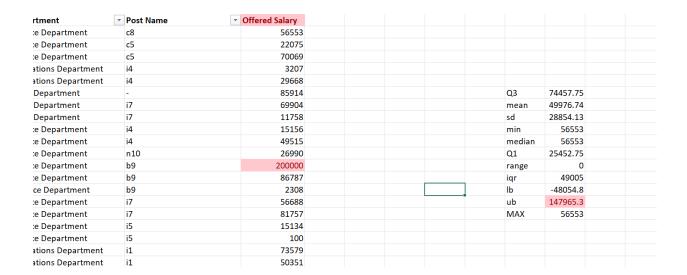
During this project, I analyzed a CSV dataset, cleaned it, and performed various operations. This project helped me visualize the process of data analysis and draw accurate conclusions. It further honed my Excel skills, including concepts like pivot tables and statistical formulas. Additionally, it enhanced my understanding of using various types of graphs effectively.

#### **Handling Missing Data**



#### **Outlier Detection, Removing Outliers, data summary**

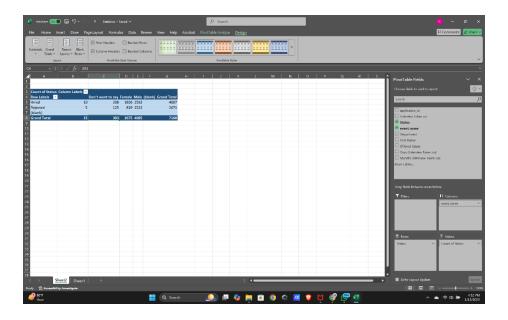


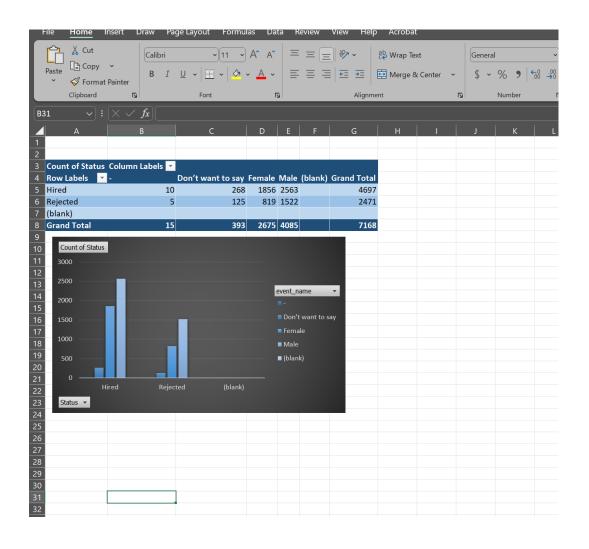


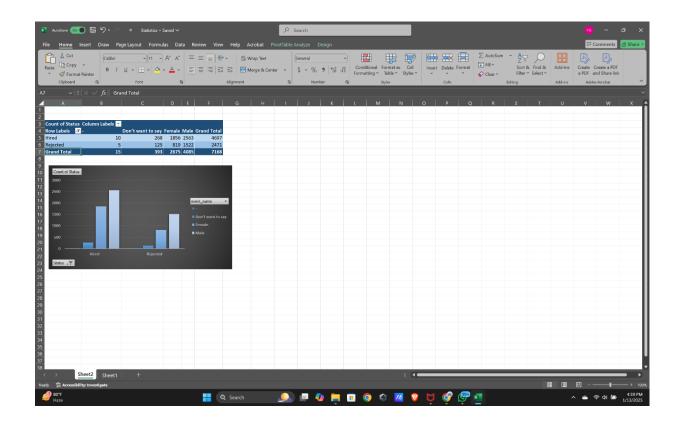
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**A. Hiring Analysis:** The hiring process involves bringing new individuals into the organization for various roles.

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

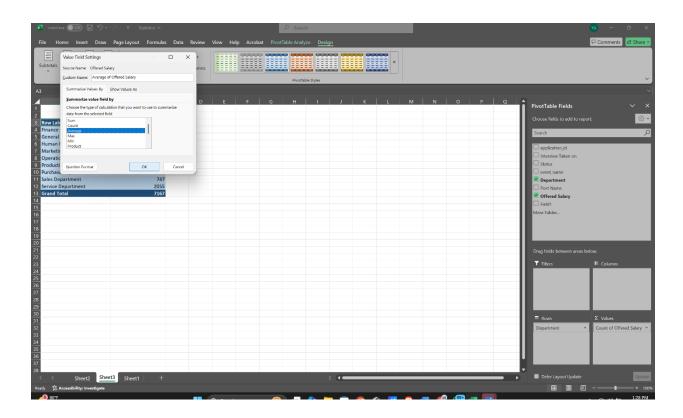


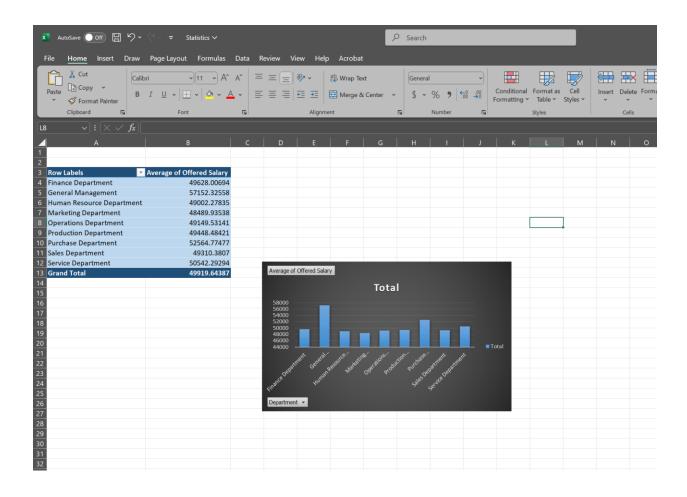




**B. Salary Analysis:** The average salary is calculated by adding up the salaries of a group of employees and then dividing the total by the number of employees.

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



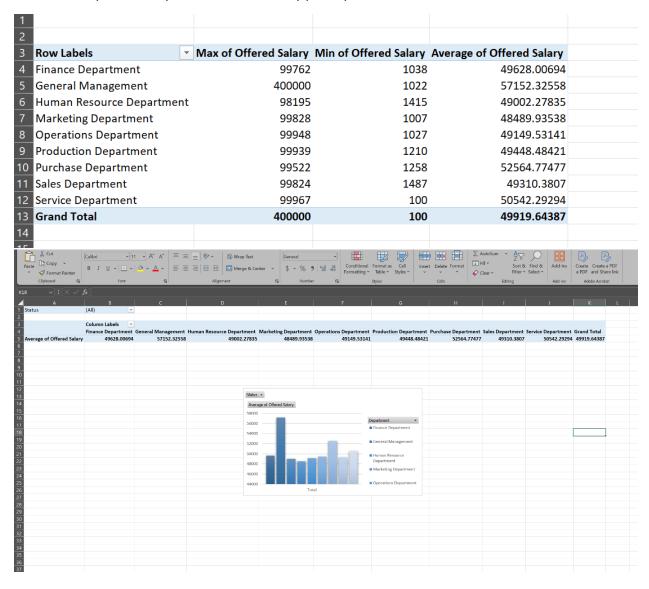


**C. Salary Distribution:** Class intervals represent ranges of values, in this case, salary ranges. The class interval is the difference between the upper and lower limits of a class.

**Your Task:** Create class intervals for the salaries in the company. This will help you understand the salary distribution.

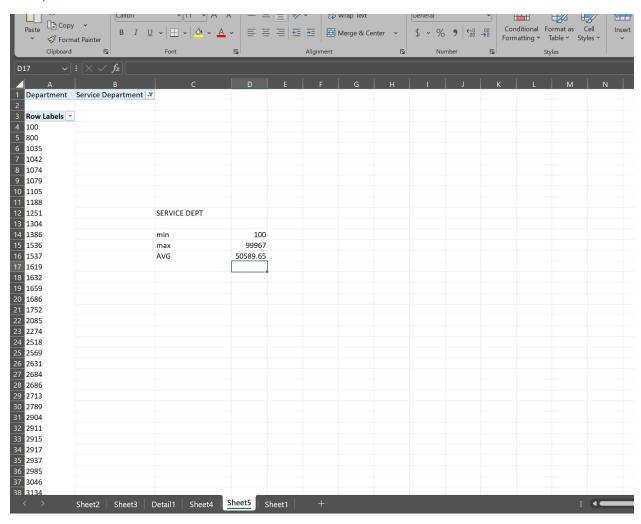
We can use pivot table function to categorize the salary on the basis of the dept.

It can also help us to analyze min and max salary per dept



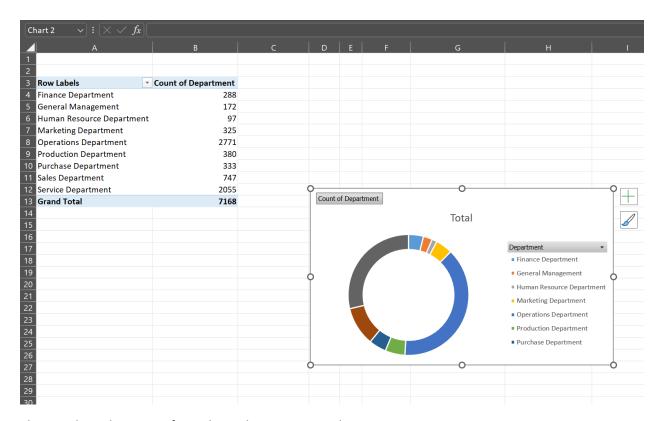
We can also do hi using pivot and formulas-

#### Example-



**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.

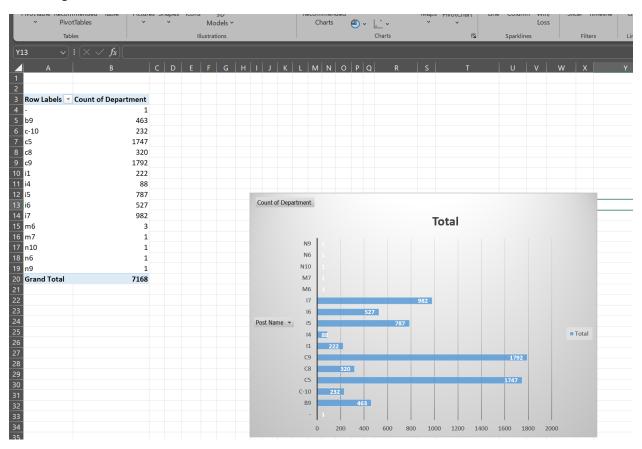


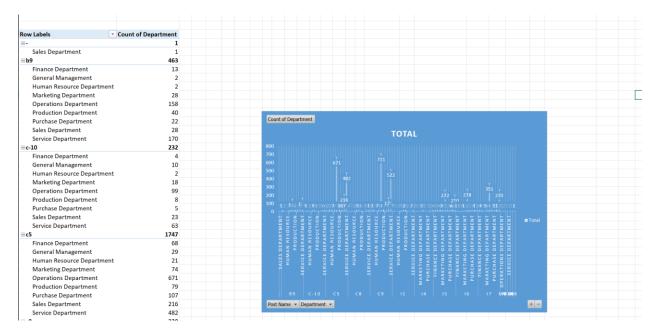
This pie chart shows no of people working in various dept.

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

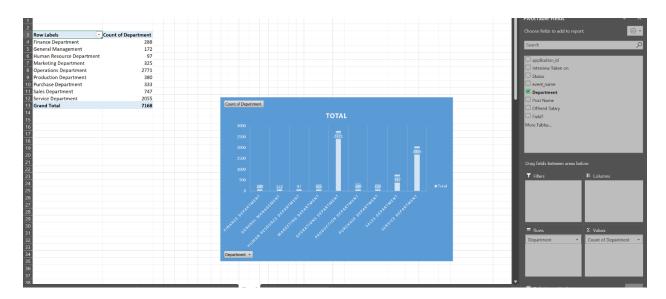
**Your Task:** Use a chart or graph to represent the different position tiers within the company. This will help you understand the distribution of positions across different tiers.

#### According to tiers





#### According to dept and respective tiers



According to dept