Project no: 4

HIRING PROCESS ANALYTICS

Project Description:

The Data Analysis for Hiring Trends program is designed to analyse a dataset provided by a multinational company (MNC) to gain insights into their hiring process. My task is to analyse the dataset and provide a detailed report that answers key questions and draws meaningful conclusions.

The program follows a series of steps for exploratory data analysis (EDA) and utilizes statistical formulas and Pandas to derive necessary conclusions. Here is an overview of the program's steps:

Tech-Stack Used: Excel, Python, Pandas

Approach:

1. Understanding data columns and data:

The program begins by exploring the dataset's columns and understanding the available data, such as gender, salary, department, and other relevant fields.

2. Checking for missing data:

The program identifies any missing data points in the dataset and handles them appropriately, ensuring data integrity for accurate analysis.

3. Clubbing columns with multiple categories:

If there are columns with multiple categories, such as different post tiers, the program combines them to create a consolidated representation for analysis.

4. Checking for outliers:

The program identifies potential outliers in the dataset, which could skew analysis results, and flags them for further investigation.

5. Removing outliers:

After identifying outliers, the program applies outlier removal techniques to eliminate or correct extreme values, ensuring more reliable analysis outcomes.

6. Drawing Data Summary:

The program generates a summary of the dataset, including key statistics and metrics, to provide a comprehensive overview of the hiring trends.

7. Answering specific questions:

The program addresses specific questions provided by the company, such as determining the count of males and females hired and calculating the average salary offered.

8. Drawing class intervals for salary:

The program defines class intervals for salary by considering the range of salaries and selecting an appropriate interval width. It creates intervals and presents them in a table or histogram.

9. Visualizing data using charts and plots:

The program incorporates charts and plots to visualize data, such as drawing a pie chart or bar graph to depict the proportion of people working in different departments.

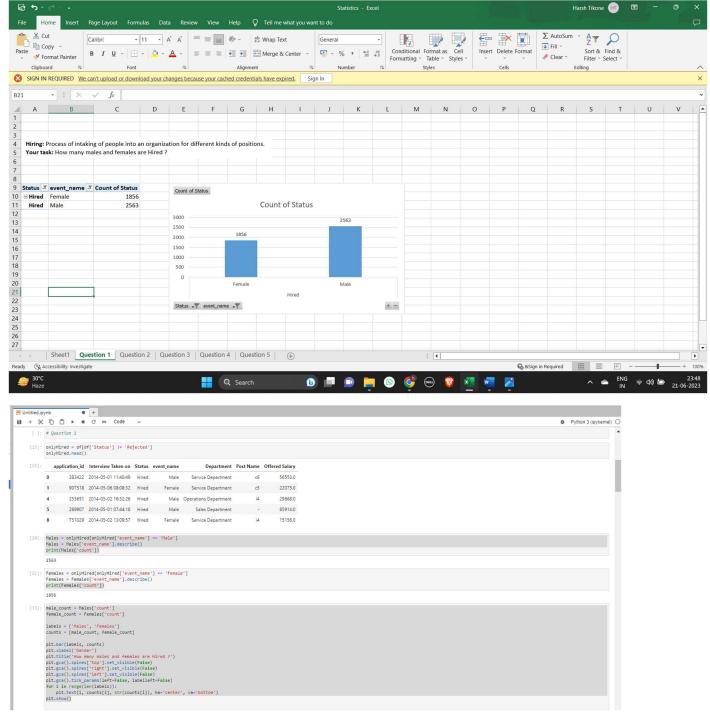
10. Representing different post tiers using charts/graphs:

The program creates visual representations, such as bar graphs or stacked bar graphs, to showcase the distribution of employees across different post tiers.

Result and Insights:

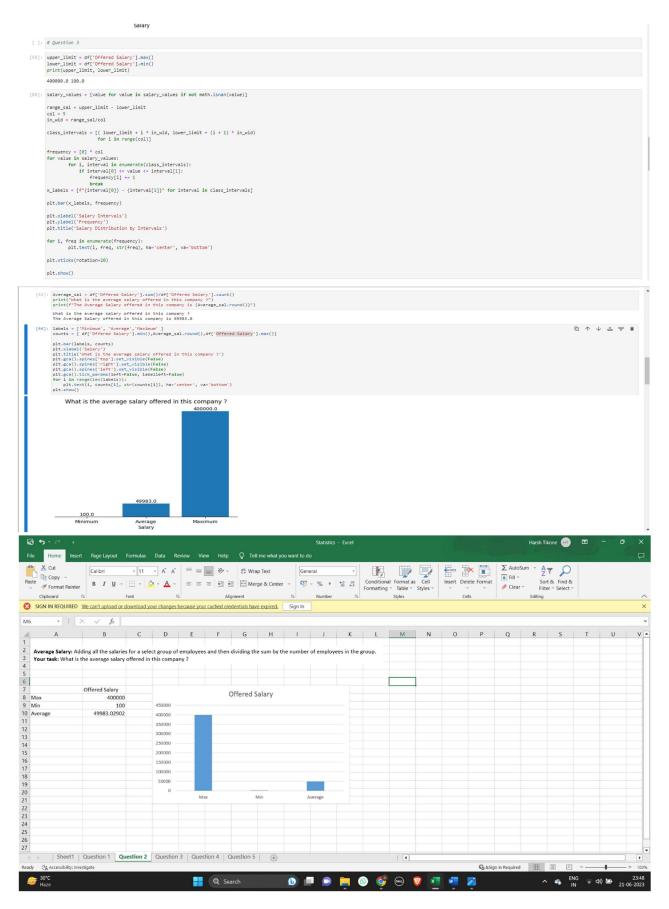
1) Hiring: Process of intaking of people into an organization for different kinds of positions.

Your task: How many males and females are Hired?



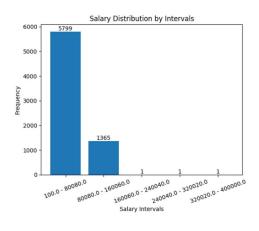
2) Average Salary: Adding all the salaries for a select group of employees and then dividing the sum by the number of employees in the group.

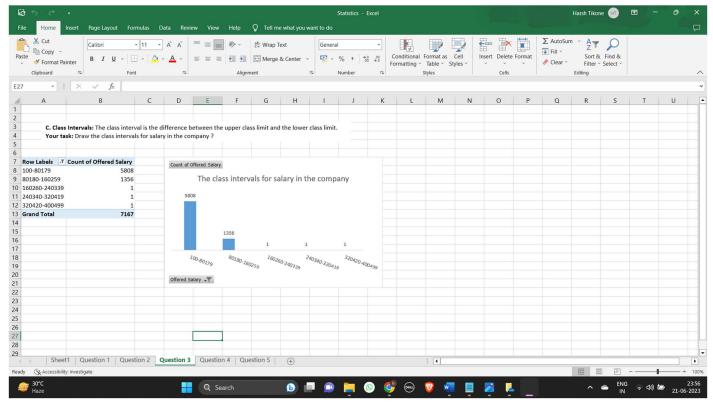
Your task: What is the average salary offered in this company? x



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

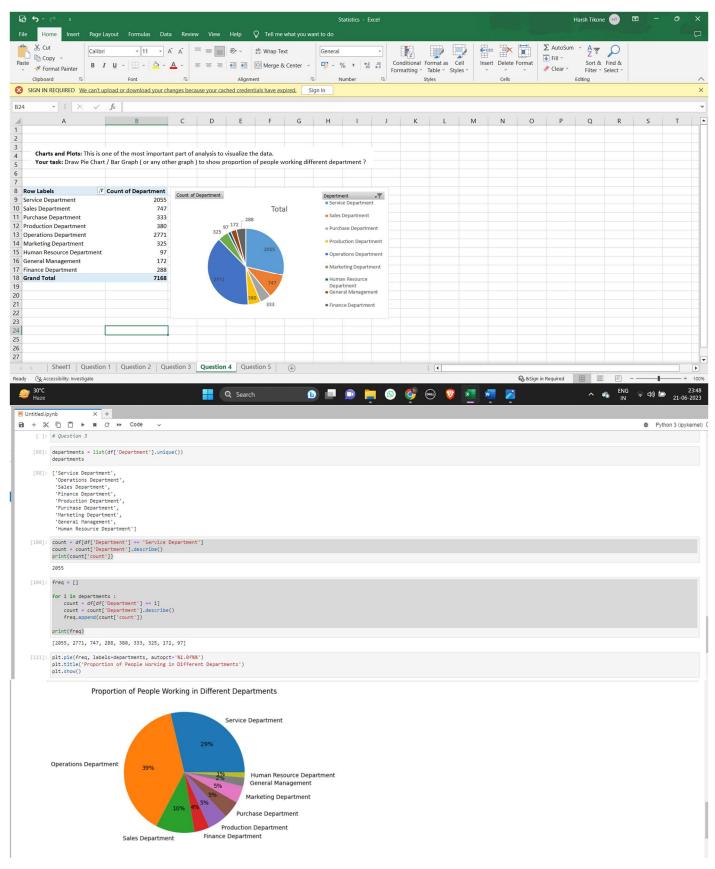
Your task: Draw the class intervals for salary in the company?





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

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?

