# Hiring Process Analytics

**Statistics** 

## **Project Description:**

The 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.

We are given a dataset containing records of previous hires. Using this data, we analyze and answer certain questions that can help the company improve its hiring process.

## Approach:

We start by downloading the provided dataset and loading it on excel.

Next, we check for any blanks or discrepancies in the data and take care of it.

We insert the data into a table.

Further we create various pivot tables according to our requirements.

We make use of Excel functions to derive insights from the data and show them graphically using various charts.

## Tech-Stack Used:

#### Microsoft 360

Version: 18.2411.1091.0

Correlation ID: 2b073c3b-6872-414c-a8af-641736330c83 Session ID: c30083e0-3042-4352-a989-bfb6048f4c76

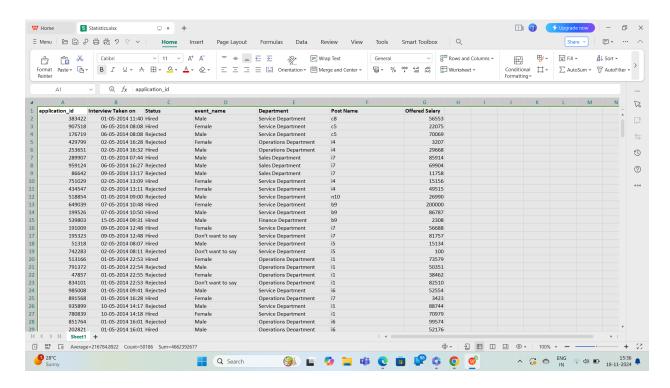
#### **Excel**

## Insights:

### Loading the dataset in excel file:

We start by opening Microsoft 360, then click on Excel.

When the window opens, we click on Upload  $\rightarrow$  Locate our file  $\rightarrow$  Press Okay.



### Handling Missing Data:

Use FIND AND REPLACE to replace unwanted characters or missing values. Select the range (column or row) you want to search within then visit the FIND AND SELECT option on the HOME tab. Select REPLACE and provide the dialog box with the characters/string to search for and the value to replace it with.

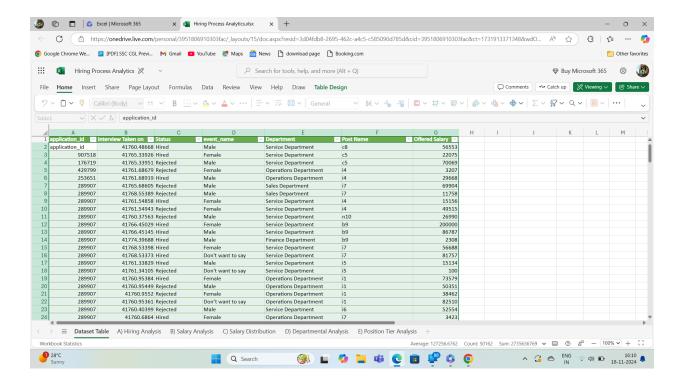
You can either delete the rows with missing values or replace those cells with MEAN or MODE values of the column.

### Inserting a Table:

Select the complete data, then go to the insert tab, then click on the table option.

Your table has been created.

You can rename and customize your tale according to your desire.



Dataset Table: Hiring Process Analytics.xlsx

#### **Pivot Table:**

A PivotTable is an interactive way to quickly summarize large amounts of data. You can use a PivotTable to analyze numerical data in detail, and answer unanticipated questions about your data. A PivotTable is especially designed for: Querying large amounts of data in many user-friendly ways.

To make a Pivot table, select your table or columns that you need, go to Insert, click on PivotTable.

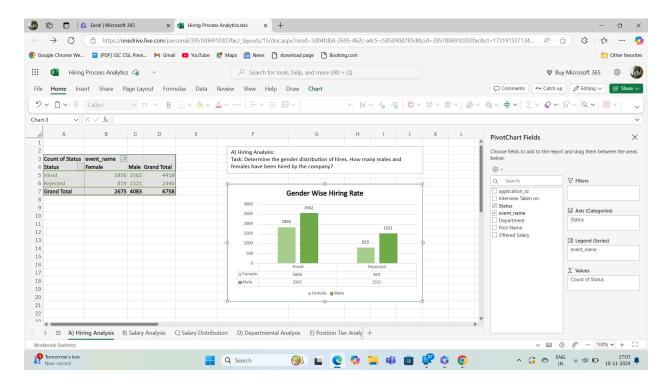
You get the option to create the Pivot table on a new spreadsheet or existing sheet. In that case you have to mention the location on the sheet.

Once the Pivot table has been created, you can rename and customize it according to requirement.

## 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?



We have adjusted the status column in Axis(Categories) and event name in Legend(Series).

In  $\sum$  **Values**, we get count of status.

The values are visible in the adjacent table.

We use this data from the pivot table to insert in a chart.

Here, we have used a Clustered Column chart.

#### Result:

Out of a total of 2675, 1856 females have been hired while 819 females have been rejected.

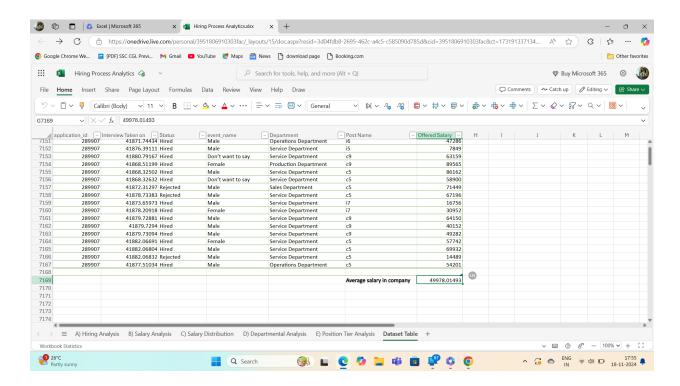
Meanwhile, out of a total of 4083, 2562 males have been hired while 1521 males have been rejected.

In total out of 6758, 4418 people have been hired and 2340 people were rejected.

## **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.



We use the Average function to find the average salary offered by the company. AVERAGE(number1, [number2], ...).

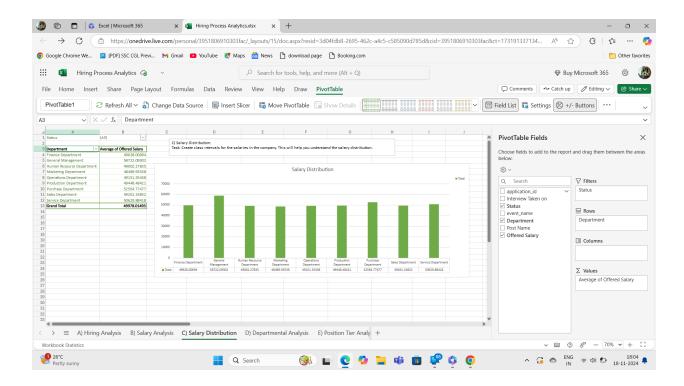
#### Result:

Average salary offered by the company is 49978.

### **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.



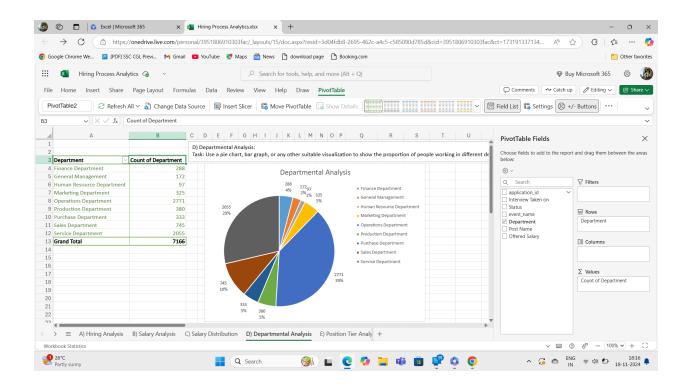
#### Result:

Department wise average salary distribution is shown with the help of a chart. The General Management department has the highest average salary, almost 6000. Also, the Marketing Department has the lowest around 48.5 thousand.

## 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:

We are using a Pie Chart to show the distribution of people working across various departments.

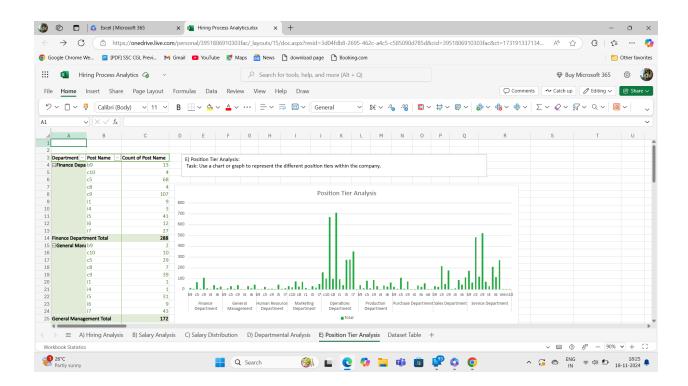
The Operations Department has 2771 people which is the highest among all departments. It is 39% of the total working force.

Meanwhile, the HR Department has 97 people which is 1% of the total.

## 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.



#### Result:

The graph shows post wise distribution for each department.

In the Operations Department, c9 post has a significantly higher count of posts compared to other departments.

In second place, the Services Department has a high count of posts as well.

Hiring Process Analytics Workbook: Hiring Process Analytics.xlsx