# A PROJECT ON HIRING PROCESS ANALYTICS



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# **Tasks**

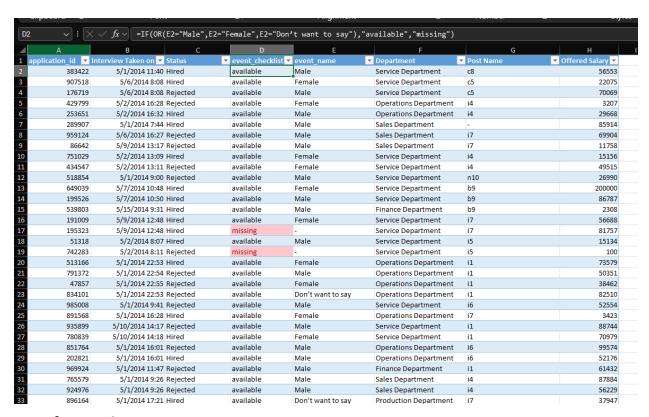
**A) Hiring Analysis:** The hiring process involves bringing new individuals into the organization for various roles.

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

# **Solution:**

#### **Excel Table:**

## ..\Task excel Files\StatisticsA.xlsx



#### **Explanation:**

This table contains dataset which is used for analysis—

 In this First I added a column "event\_checklist" for checking/finding if there is any missing data in "event\_name" column, done this using IF function.

- Then after finding the missing values, I colored those cells for highlighting the missing values
- After that I converted the table into pivot table for filtering records and finding the count of males, females, etc. hiring

#### **Result Tables:**

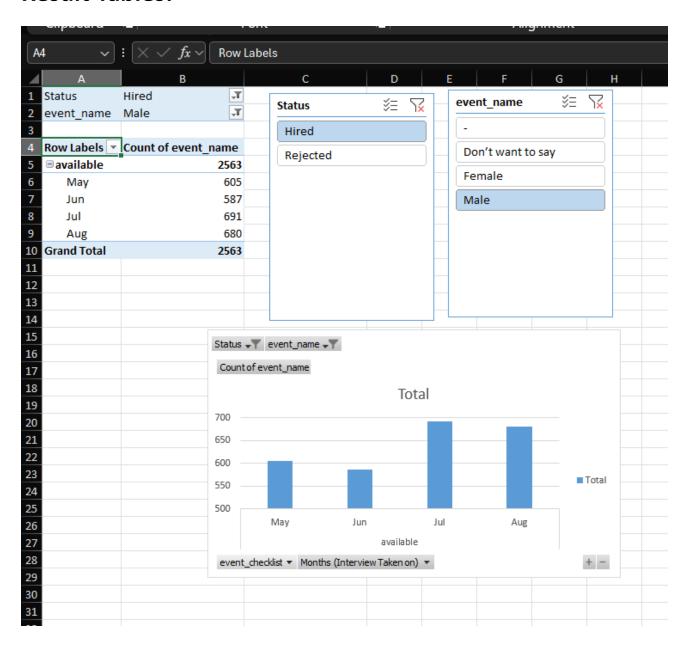
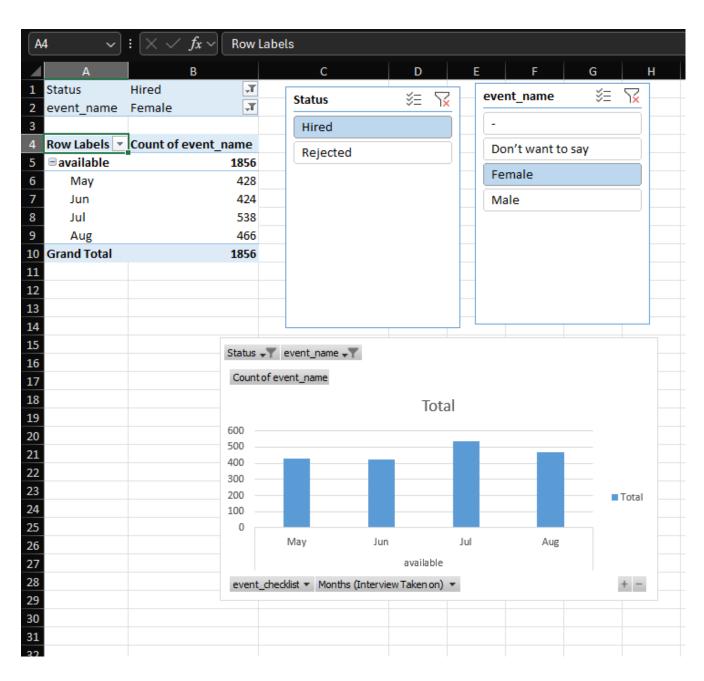


Table 1 - Male Hired Count



**Table 2 - Female Hired Count** 

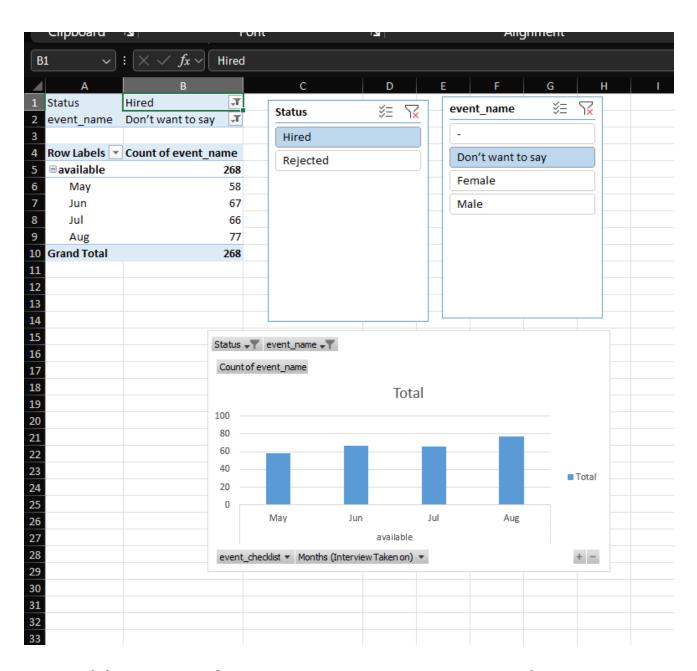
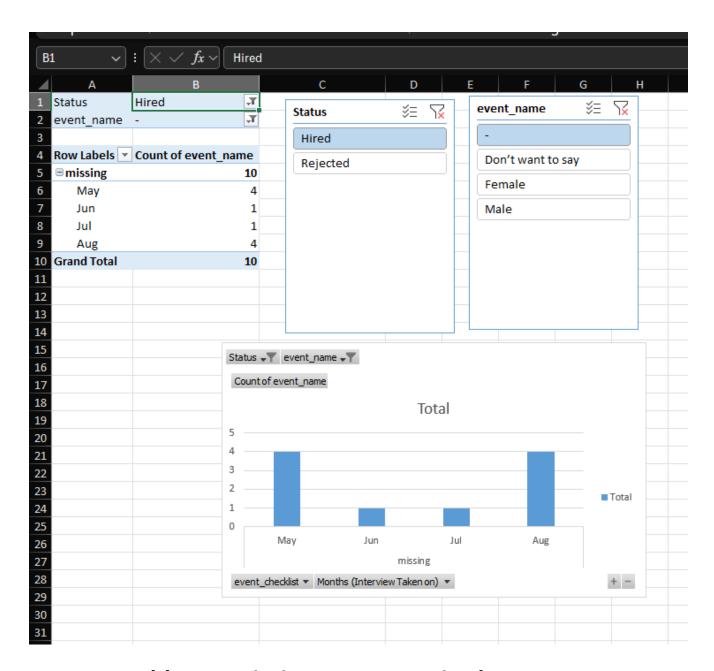


Table 3 – Don't want to say Category Hired Count



**Table 4 – Missing Category Hired Count** 

- In the above shown result tables I have used **slicer** for better understanding and filtering of data.
- ➤ Also, for representing data according to months I have used **pivot charts** for better **visualization**

## Here above table clearly shows the results as

- > Table 1 shows the "Male Hired Count"
- > Table 2 shows the "Female Hired Count"
- ➤ Table 3 shows the "Don't want to say Category Hired Count"
- > Table 4 shows the "Missing Category Hired Count".

**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.

# **Solution:**

#### **Excel Table:**

..\Task excel Files\StatisticsB.xlsx

G7170	$\checkmark$ : $\times$ $\checkmark$ $f_x$ $\checkmark$	=AVERAGE(G2:G7169)				
<b>⊿</b> ap	plication_id 🔻 In	terview Taken on 😈 Status	▼ event_name	Department	▼ Post Name	
7147	449644	8/29/2014 14:40 Hired	Female	Human Resource Departr	nen i5	76971
7148	887973	8/22/2014 0:56 Hired	Female	Service Department	b9	38985
7149	518834	8/12/2014 7:35 Rejected	Male	<b>Production Department</b>	c9	68938
7150	497131	8/15/2014 12:22 Hired	Male	Production Department	c9	89428
7151	320464	8/14/2014 18:45 Hired	Female	Operations Department	c5	1611
7152	641060	8/20/2014 17:49 Rejected	Male	Operations Department	i6	67779
7153	786222	8/20/2014 17:51 Hired	Male	Operations Department	i6	47286
7154	964206	8/25/2014 9:23 Hired	Male	Service Department	i5	7849
7155	586934	8/29/2014 19:00 Hired	Don't want to say	Service Department	c9	63159
7156	321440	8/17/2014 12:17 Hired	Female	Production Department	c9	89565
7157	975415	8/17/2014 7:48 Hired	Male	Service Department	c5	86162
7158	683982	8/17/2014 7:49 Hired	Don't want to say	Service Department	c5	58900
7159	665614	8/21/2014 7:30 Rejected	Male	Sales Department	c5	71449
7160	935497	8/27/2014 17:36 Rejected	Male	Service Department	c5	67196
7161	106032	8/22/2014 15:50 Hired	Male	Service Department	i7	16756
7162	166185	8/27/2014 5:01 Hired	Female	Service Department	i7	30952
7163	736189	8/28/2014 17:29 Hired	Male	Service Department	c9	64150
7164	614594	8/28/2014 17:30 Hired	Male	Service Department	c9	40152
7165	493131	8/28/2014 17:32 Hired	Male	Service Department	c9	49282
7166	214261	8/31/2014 1:36 Hired	Female	Service Department	c5	57742
7167	932441	8/31/2014 1:37 Hired	Male	Service Department	c5	69932
7168	39010	8/31/2014 1:38 Rejected	Male	Service Department	c5	14489
7169	686055	8/26/2014 12:14 Hired	Male	Operations Department	c5	54201
7170 <b>To</b>	tal					49983.02902

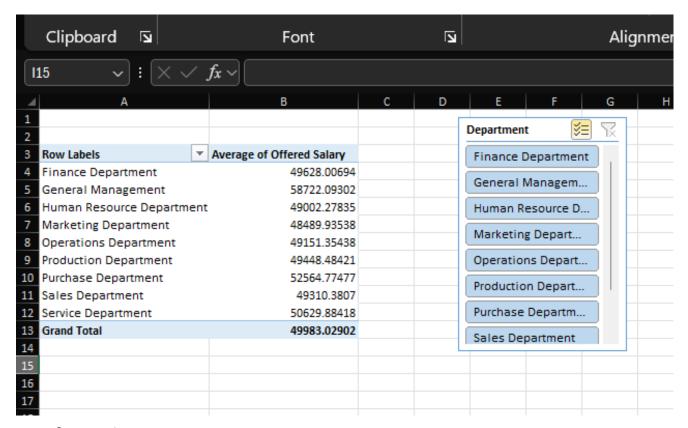
# **Explanation:**

Here For Finding the average of all the employees from all the departments I used **average** function

"average(G2:G7169)"

So, Average Salary of this Company is 49983.02902

#### Department wise average salary is presented below:



#### **Explanation:**

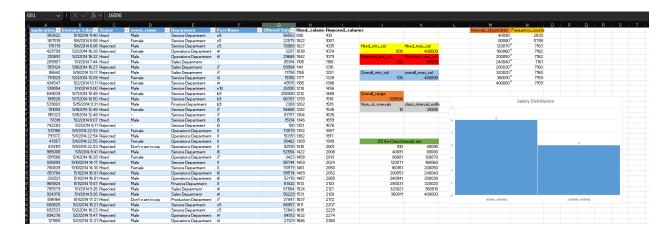
- For Finding average salaries according to departments I used pivot table.
- In this firstly I converted normal table into pivot table
- Then I used pivot table fields
- First I selected department column in pivot fields and then selected average offered salary from value field settings after that automatically the records got filtered and I got the average salaries according to various departments present in the company.

- And at last for Good understanding of data and for filitering on the basis of single and multiple selections, I used slicer.
- **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.

# **Solution:**

# ..\Task excel Files\StatisticsC.xlsx



# **Explanation:**

 In this task first I analyzed hired salaries and rejected salaries of the company with finding the minimum and maximum salaries of both hired as well as rejected salaries.

- Then i found the overall minimum and maximum salaries and assumed some number of intervals for making different class intervals as it is used for the calculations
- After this I seperately shown the upper limits of class intervals and calculated the frequency counts for describing the persons with various types of salaries which comes under different classes as mentioned in the excel table.
- After finding all the necessary details I added a Histogram for presenting the salary distribution of the company.
- → So finally I have completed my task and obtained my goal of showing salary distribution of the company.

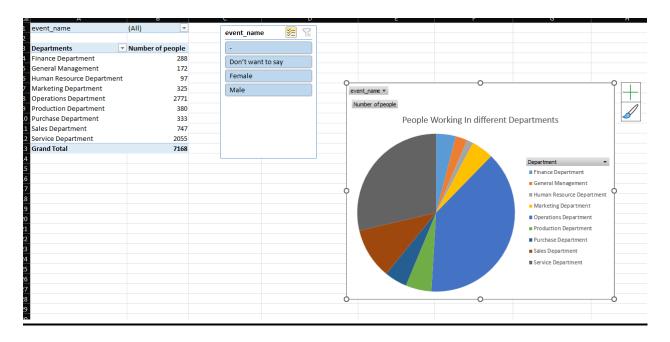
**D) Departmental Analysis:** Visualizing data through charts and plots is a crucial part of data analysis.

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

# **Solution:**

#### **Result set:**

# ..\Task excel Files\StatisticsD.xlsx



## **Explanation:**

- Here Firstly for finding department wise distribution for number of people working in each department
- I converted **normal table** to **pivot table**
- Then Using **pivottable fields** I entered all the fields according to my use like I entered "**event name**" in the

filters section, "Department" in the rows section, "Number of people" in the values section

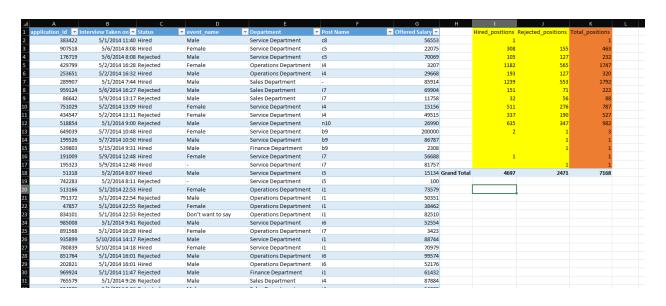
- I used slicer for filtering the data and for better understanding of data
- Then I used pie chart For good visualization.

→So at last I have achieved my goal of showing the people working in different departments.

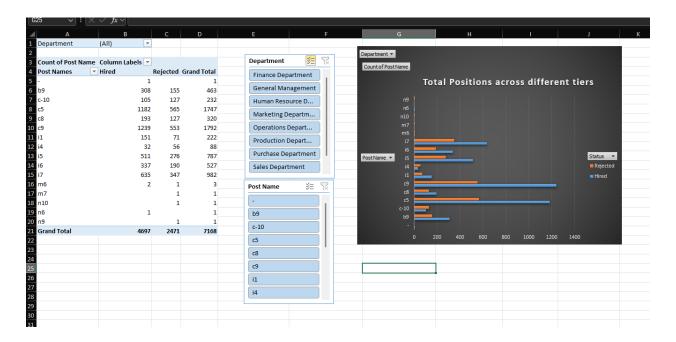
**E) Position Tier Analysis:** Different positions within a company often have different tiers or levels.

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.

## **Solution:**



**Table 1 – Total Positions in Company** 



**Table 2 - Total Positions across different tiers** 

# **Explanation:**

- In this task first I managed to analyze the total positions in the company with completely describing the hired and rejected positions using pivot table.
- Then I used various **pivottable fields** for filtering the data according to departments, post names and status.
- After finding all the necessary details I added a bar chart for presenting the total positions across different tiers.
- →So finally I have completed my task and obtained my goal of showing total positions across different tiers in the company.

## **Project Description**

In this project I assued me as a data analyst at google, I have to analyze the necessary hiring process data to derive actionable insights.

This analysis helped me to undestand patterns of hiring, such as the number of rejections, job types and total vacancies etc,.

## **Approach**

In this I followed a simple approach firstly I undestood the task then I analyzed the data and according to need I cleaned the data and then finally with the cleaned data I used my excel skills to produce the results of the task and achieved my goal.

#### Tech - Stack Used

--- Microsoft 365 (16.0.17...) enterprise addition

## **Insights**

The first main thing is that its my first excel project so I gained a project work experience which benefited me in terms of knowledge,

And the main things I learnt are –

- Hiring Trends Over Time
- Job types and Vacancies
- Factors influencing Hirirng Decisions

Overall the project was great for me as a first project.

#### Result

So in the result I will say I accomplished some achivements like

- Analyzed large datsets
- Discovered seasonal hiring trends
- Determined the average time to fill positions
- provided data-driven recommendations

Through this project I achieved all of this.