

Hiring Process Analytics

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HIRING PROCESS ANALTICS

Project Description

The project is about analyzing the hiring process data of a multinational company. The goal is to draw meaningful insights from the data and help the company improve its hiring process.

The project will involve following things that I have found in the analysis:

- A. Checking for missing values and outliers in the dataset.
- B. Cleaning and preparing the data for analysis.
- C. Answering the data analytics questions listed in the projects description.
- D. Creating a report to present the findings.

The data analytics questions will focus on the following areas:

• **<u>Hiring Analysis:</u>** The hiring process involves bringing new individuals into the organization for various roles.

My task - Determine the gender distribution of hires. How many males and females have been hired by the company?

• **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.

My task - What is the average salary offered by this company? Using Excel analysis to calculate this.

• <u>Salary distribution:</u> 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.

My task - Create class intervals for the salaries in the company. This will help us understand the salary distribution.

• **<u>Departmental Analysis:</u>** Visualizing the data through charts and plots is a crucial part of data analysis.

My task - Use a pie chart, bar graph, or any other suitable visualisation to show the proportion of people working in different departments.

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

My task - Use a chart or graph to represent the different position tiers within the company. This

will help us to understand the distribution of positions across different tiers.

Approach

The approach was to use Excel to analyse the Hiring Analytics database. The following operations were used to answer the above questions:

• To determine the gender distribution of hires. How many males and females have been hired by the company, the following operation was used:

Males hired - 2563

Females hired - 1856

and following operation were used -

=COUNTIFS(D:D,"Male",C:C,"Hired")

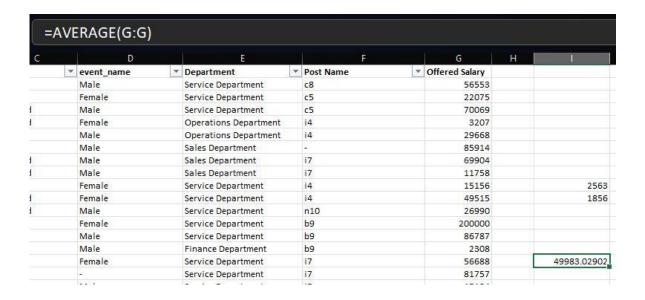
=COUNTIFS(D:D,"Female",C:C,"Hired")

D	E	F		G H		J
event_name	Department	Post Name	¥	Offered Salary		
Male	Service Department	c8		56553		
Female	Service Department	c5		22075		
Male	Service Department	c5		70069		
Female	Operations Department	i4		3207		
Male	Operations Department	i4		29668		
Male	Sales Department			85914		
Male	Sales Department	i7		69904		
Male	Sales Department	i7		11758		
Female	Service Department	i4		15156	2563	No. of males hired
Female	Service Department	i4		49515	1856	No. of females hire
Male	Service Department	n10		26990		

• To determine the average salary offered by the company , the following operation was used:

=AVERAGE(G:G)

Avg salary - Rs. 49983.02902



- To determine the average salary offered by the different departments, the following operations were used:
- =AVERAGEIF(E:E,"Finance Department",G:G)
- =AVERAGEIF(E:E,"Service Department",G:G)
- =AVERAGEIF(E:E,"Operations Department",G:G)
- =AVERAGEIF(E:E,"Production Department",G:G)
- =AVERAGEIF(E:E,"Marketing Department",G:G)
- =AVERAGEIF(E:E,"Purchase Department",G:G)
- =AVERAGEIF(E:E,"Sales Department",G:G)
- =AVERAGEIF(E:E,"General Department",G:G)
- =AVERAGEIF(E:E,"Human Resources Department",G:G)

49628.00694	Finance Dept.
50629.88418	Service Dept.
49151.35438	Operations Dept.
49448.48421	Production Dept.
48489.93538	Marketing Dept.
52564.77477	Purchase Dept.
49310.3807	Sales Dept.
58722.09302	General Management
49002.27835	Human Res. Dept.

• To determine the number of hiring by the different departments, the following operations were used:

```
=COUNTIFS(E:E,"Finance Department",C:C,"Hired")
```

=COUNTIFS(E:E,"Human Resources Department",C:C,"Hired")

1332	Serv. Dept. Hired
1843	Ops. Dept. Hired
485	Sales Dept. Hired
176	Finance Dept. Hired
230	Purchase Dept. Hired
246	Production Dept. Hired
70	Human Res. Dept. Hired
202	Marketing Dept. Hired
113	General Management

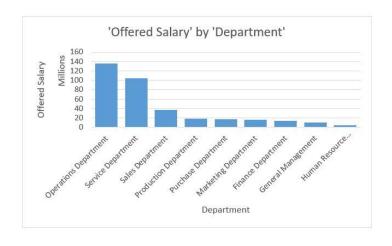
% of total 'Offered Salary' by 'Status'

Status	-1	Sum of Offered Salary
Hired		65.23%
Rejected	ł	34.77%
Grand T	otal	100.00%



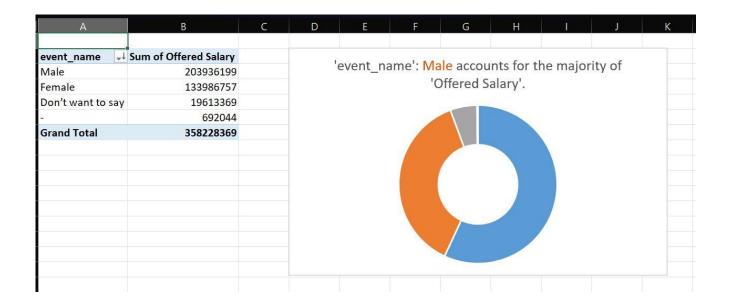
Total 'Offered Salary' by 'Department'

Department	Sum of Offered Salary
Operations Department	136198403
Service Department	104044412
Sales Department	36785544
Production Department	18790424
Purchase Department	17504070
Marketing Department	15759229
Finance Department	14292866
General Management	10100200
Human Resource Departmen	t 4753221
Grand Total	358228369

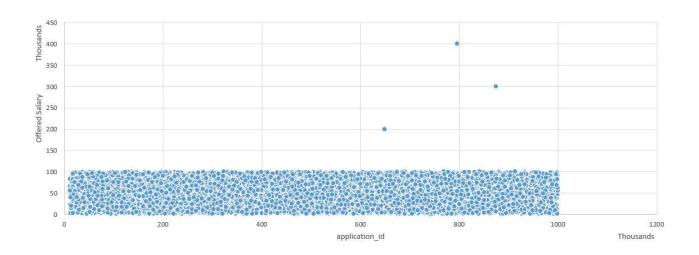


event_name	.₁ c9	c5	17	i5	i6	Ь9	c8	c-10	il i	4 1	m6 -	n	9 1	n6	m7	n10	Grand Tota
Male	50254588	48229634	27105743	23058054	15701609	13157159	9988646	7698161	6177217	2308318	102764	85914			41402	26990	2.04E+08
Female	34112756	34553323	19507549	13295993	9255999	8350191	5290633	3459624	4241279	1827691	800		46219	44700			1.34E+08
Don't want to say	5495073	4648452	2419070	2512990	780676	1411632	932719	679662	567854	165241							19613369
	98108	291582	81757	4408		76730	12470	25785	101204								692044
Grand Total	89960525	87722991	49114119	38871445	25738284	22995712	16224468	11863232	11087554	4301250	103564	85914	46219	44700	41402	26990	3.6E+08

A	В	С	D	E	F	G	Н	1	J	K	<u>L</u>
Sum of Offered Salary	Status 💌		0-17-1			'Offere	d Salary	by 'Dep	artment'	and 'Sta	tus'
			Grand Total					100 A 100 C 100			
inance Department	8579698	5713168				Finance I	Department				
General Management	6871553	3228647	10100200		1500000			-			
luman Resource Department	3431008	1322213	4753221		Hum	ian Resource l	Department				
Marketing Department	9664366	6094863	15759229		artm	Operations I	Department		V		
Operations Department	90148854	46049549	136198403		e b		_				
Production Department	12140315	6650109	18790424		Δ	Purchase I	Department				
Purchase Department	11979912	5524158	17504070			Service I	Department		_		
ales Department	23541682	13243862	36785544					0	40		80
Service Department	67331965	36712447	104044412								Millions
Grand Total	2.34E+08	1.25E+08	358228369						Off 1	c	
									Offered	Salary	
								■ Hired ■	Rejected		



'Offered Salary'



Tech-Stack Used

The following tech stack was used to do this project:

- Database- Excel
- Data Analysis Tool Excel

RESULTS

The results of this project have provided valuable insights into Hiring Analytics. This information can be used by management team to analyse the past hiring records of the company.