

Hiring Process Analytics



By Aayushi Singh

Project Description

Hiring process is the fundamental and the most important function of a company. Here, the MNCs get to know about the major underlying trends about the hiring process. Trends such as- number of rejections, number of interviews, types of jobs, vacancies etc. are important for a company to analyse before hiring freshers or any other individual.

Approach

Properly Analyze the Dataset understanding in the data anomaly according to the dataset then performing data analysis of the data and finding values accordingly

The dataset :

<https://docs.google.com/spreadsheets/d/1gAq5sK8L2e7rCP0O0KaNo7gqx6tfnVQk/edit#gid=1029390730>

Tech stack used

Microsoft Excel

Google Sheets

Results and Insights

According to dataset the anomaly are

- Anomaly in event_name

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	A	B	C	D	E	F	G	H	I	J
	application_id	Interview Taken on	Status	event_name	Department	Post Name	Offered Salary			
17	195323	05-09-2014 12:48	Hired	-	Service Department	i7	81757			
19	742283	05-02-2014 08:11	Rejected	-	Service Department	i5	100			
1602	227046	8/27/14 18:08	Hired	-	Operations Department	b9	76730			
1791	711350	7/16/14 13:33	Rejected	-	Operations Department	c-10	25785			
2878	835053	5/16/14 18:34	Hired	-	Operations Department	c5	25583			
3259	444043	07-11-2014 14:52	Hired	-	Sales Department	c5	80262			
4018	352309	8/20/14 10:38	Hired	-	Service Department	i5	4308			
4126	204014	08-09-2014 16:09	Rejected	-	Purchase Department	c5	96396			
4410	901867	8/18/14 9:36	Rejected	-	Service Department	c5	22393			
5560	937905	08-08-2014 19:29	Hired	-	Marketing Department	c9	94032			
5607	564743	8/28/14 10:25	Rejected	-	Production Department	c9	4076			
5889	245473	5/14/14 18:48	Hired	-	Service Department	c5	66948			
6330	411295	6/22/14 14:38	Hired	-	Operations Department	i1	98070			
6658	487617	5/30/14 16:29	Hired	-	Service Department	c8	12470			
6998	827628	8/30/14 15:51	Hired	-	Service Department	i1	3134			
7170										
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7181										
7182										

Statistics.xlsx - Sheet1

Ready 15 of 7168 records found

- Anomaly in Offered_salary

[illegible]

- Anomaly in Post name

Statistics.xlsx - Sheet1 - Excel

Sanjeev Singh 55

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	application_id	Interview Taken on	Status	event_name	Department	Post Name	Offered Salary									
7	289907	05-01-2014 07:44	Hired	Male	Sales Department	-	85914									
7170																
7171																
7172																
7173																
7174																
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1. **Hiring:** Process of intaking of people into an organization for different kinds of positions.

Your task: How many males and females are Hired ?

[illegible]

Including don't want to say

stats - Excel

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	A	B	C	D	E	F	G	H	I
1	application_id	Interview Taken on	Status	event_name	Department	Post Name	Offered Salary		
2	383422	05-01-2014 11:40	Hired	Male	Service Department	c8	56553		
3	907518	05-06-2014 08:08	Hired	Female	Service Department	c5	22075		
4	176719	05-06-2014 08:08	Rejected	Male	Service Department	c5	70069		
5	429799	05-02-2014 16:28	Rejected	Female	Operations Department	i4	3207		
6	253651	05-02-2014 16:32	Hired	Male	Operations Department	i4	29668		
7	289907	05-01-2014 07:44	Hired	Male	Sales Department	-	85914		
8	959124	05-06-2014 16:27	Rejected	Male	Sales Department	i7	69904		
9	86642	05-09-2014 13:17	Rejected	Male	Sales Department	i7	11758		
10	751029	05-02-2014 13:09	Hired	Female	Service Department	i4	15156		
11	434547	05-02-2014 13:11	Rejected	Female	Service Department	i4	49515	Male	4084
12	518854	05-01-2014 09:00	Rejected	Male	Service Department	n10	26990	Female	2675
13	649039	05-07-2014 10:48	Hired	Female	Service Department	b9	200000	don't want to say	393
14	199526	05-07-2014 10:50	Hired	Male	Service Department	b9	86787		
15	539803	5/15/14 9:31	Hired	Male	Finance Department	b9	2308		
16	191009	05-09-2014 12:48	Hired	Female	Service Department	i7	56688		
17	195323	05-09-2014 12:48	Hired	-	Service Department	i7	81757		
18	51318	05-02-2014 08:07	Hired	Male	Service Department	i5	15134		
19	742283	05-02-2014 08:11	Rejected	-	Service Department	i5	100		
20	513166	05-01-2014 22:53	Hired	Female	Operations Department	i1	73579		
21	791372	05-01-2014 22:54	Rejected	Male	Operations Department	i1	50351		
22	47857	05-01-2014 22:55	Rejected	Female	Operations Department	i1	38462		
23	834101	05-01-2014 22:53	Rejected	don't want to say	Operations Department	i1	82510		
24	985008	05-01-2014 09:41	Rejected	Male	Service Department	i6	52554		
25	891568	05-01-2014 16:28	Hired	Female	Operations Department	i7	3423		
26	935899	05-10-2014 14:17	Rejected	Male	Service Department	i1	88744		
27	780839	05-10-2014 14:18	Hired	Female	Service Department	i1	70979		
28	851764	05-01-2014 16:01	Rejected	Male	Operations Department	i6	99574		

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 ?

stats - Excel

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	C	D	E	F	G	H	I	J	K	L	M	N
6	Hired	Male	Operations Department	i4	29668							
7	Hired	Male	Sales Department	-	85914							
8	Rejected	Male	Sales Department	i7	69904							
9	Rejected	Male	Sales Department	i7	11758							
10	Hired	Female	Service Department	i4	15156							
11	Rejected	Female	Service Department	i4	49515			Males	4084			
12	Rejected	Male	Service Department	n10	26990			Female	2675			
13	Hired	Female	Service Department	b9	200000							
14	Hired	Male	Service Department	b9	86787							
15	Hired	Male	Finance Department	b9	2308		Sum of salary	358228369				
16	Hired	Female	Service Department	i7	56688		total no of employees	7167				
17	Hired	-	Service Department	i7	81757							
18	Hired	Male	Service Department	i5	15134		average salary	49983.02902				
19	Rejected	-	Service Department	i5	100							
20	Hired	Female	Operations Department	i1	73579							
21	Rejected	Male	Operations Department	i1	50351							
22	Rejected	Female	Operations Department	i1	38462							
23	Rejected	don't want to say	Operations Department	i1	82510							
24	Rejected	Male	Service Department	i6	52554							
25	Hired	Female	Operations Department	i7	3423							
26	Rejected	Male	Service Department	i1	88744							
27	Hired	Female	Service Department	i1	70979							
28	Rejected	Male	Operations Department	i6	99574							
29	Hired	Male	Operations Department	i6	52176							
30	Rejected	Male	Finance Department	i1	61432							
31	Rejected	Male	Sales Department	i4	87884							
32	Rejected	Male	Sales Department	i4	56229							
33	Hired	don't want to say	Production Department	i7	37947							
34	Rejected	Male	Service Department	c5	88057							
35	Hired	Male	Service Department	c5	72843							

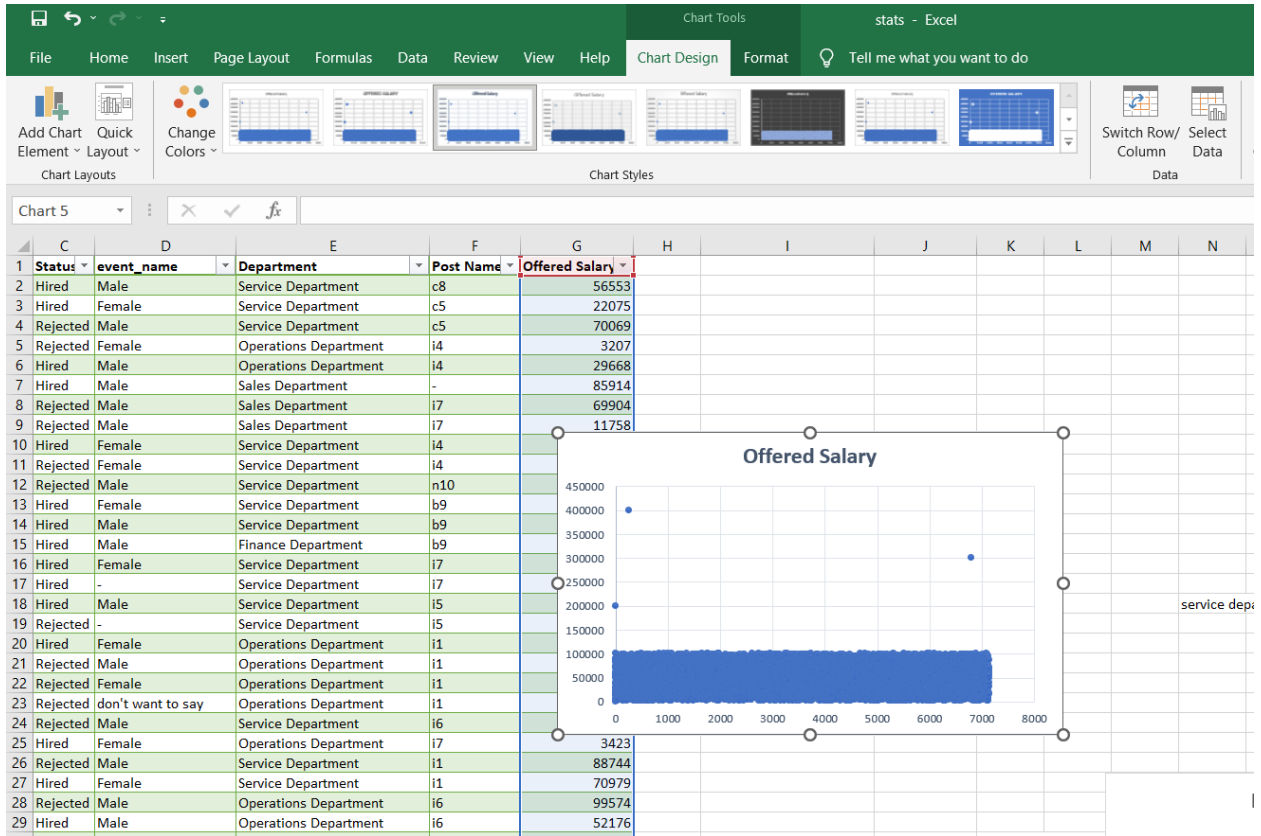
Analysis

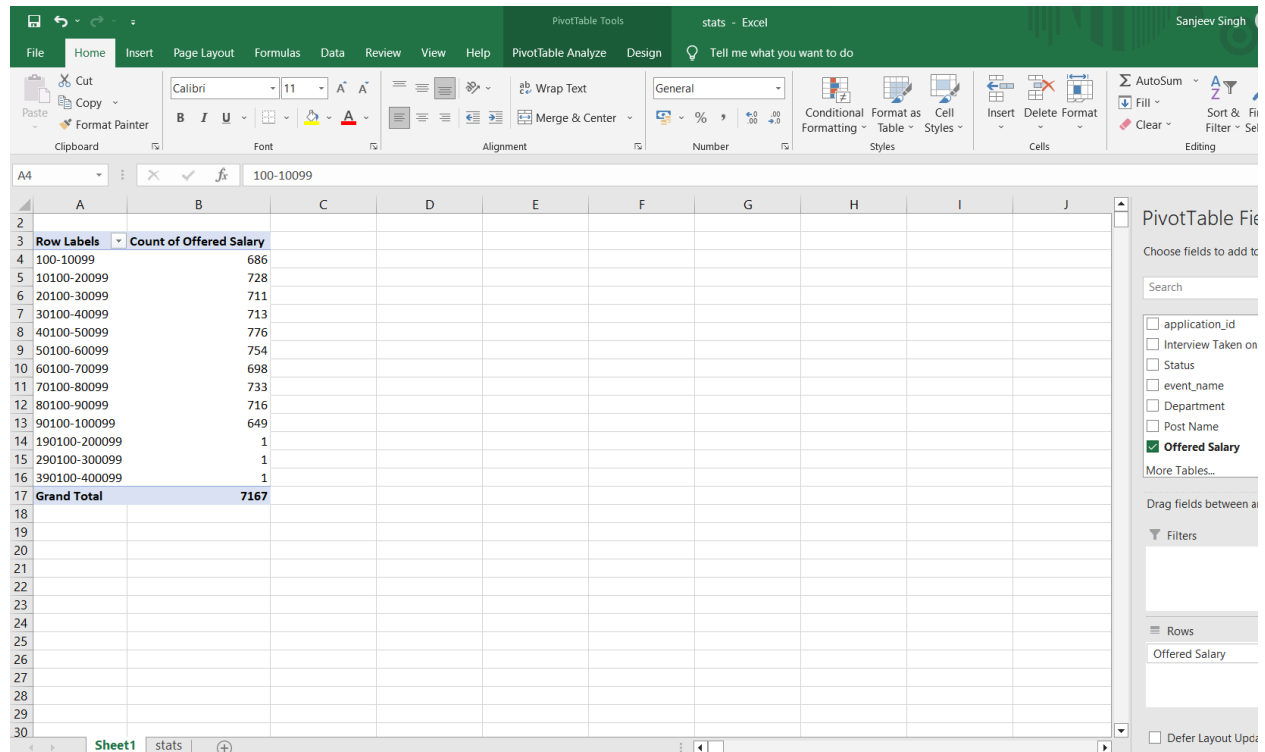
application_id	Interview Taken	Status	event_name	Department	Post Name	Offered Salary	H	I	J	K	L
383422	05-01-2014 11:40	Hired	Male	Service Department	c8	56553					
907518	05-06-2014 08:08	Hired	Female	Service Department	c5	22075			Average	49983.02902	
176719	05-06-2014 08:08	Rejected	Male	Service Department	c5	70069			Median	49625	
429799	05-02-2014 16:28	Rejected	Female	Operations Department	i4	3207			Min	100	
253651	05-02-2014 16:32	Hired	Male	Operations Department	i4	29668			Max	400000	
289907	05-01-2014 07:44	Hired	Male	Sales Department	-	85914					
959124	05-06-2014 16:27	Rejected	Male	Sales Department	i7	69904					
86642	05-09-2014 13:17	Rejected	Male	Sales Department	i7	11758					
751029	05-02-2014 13:09	Hired	Female	Service Department	i4	15156					

Insight : we can find either by using average function or first finding sum of salary , then count of application_id(for no of people) and divide it

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 ?

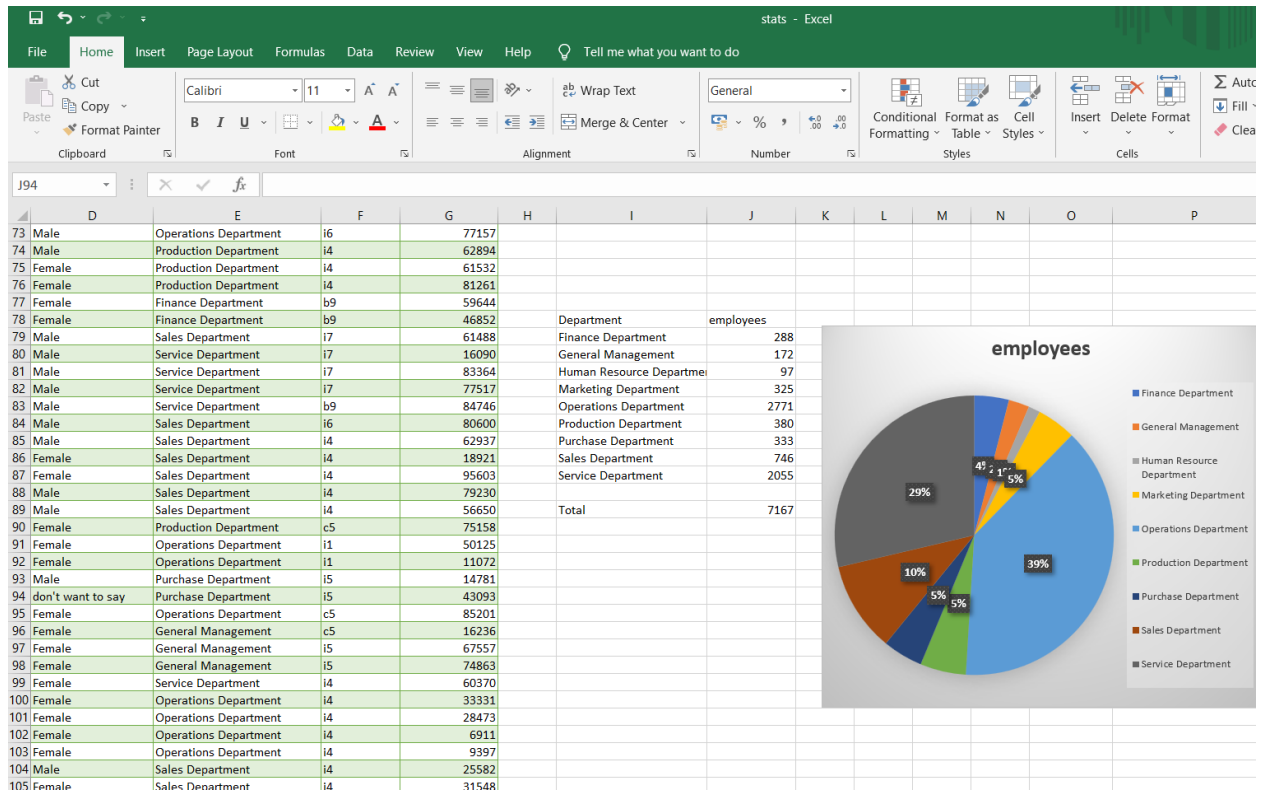




Insight: we use pivot table to create range for the offered salary each of having a difference of 1000 and with scatterplot it helps to detect anomaly in the values if existed

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 ?



Insight :

Finance Department

General Management

Human Resource Department

Marketing Department

Operations Department

Production Department

Purchase Department

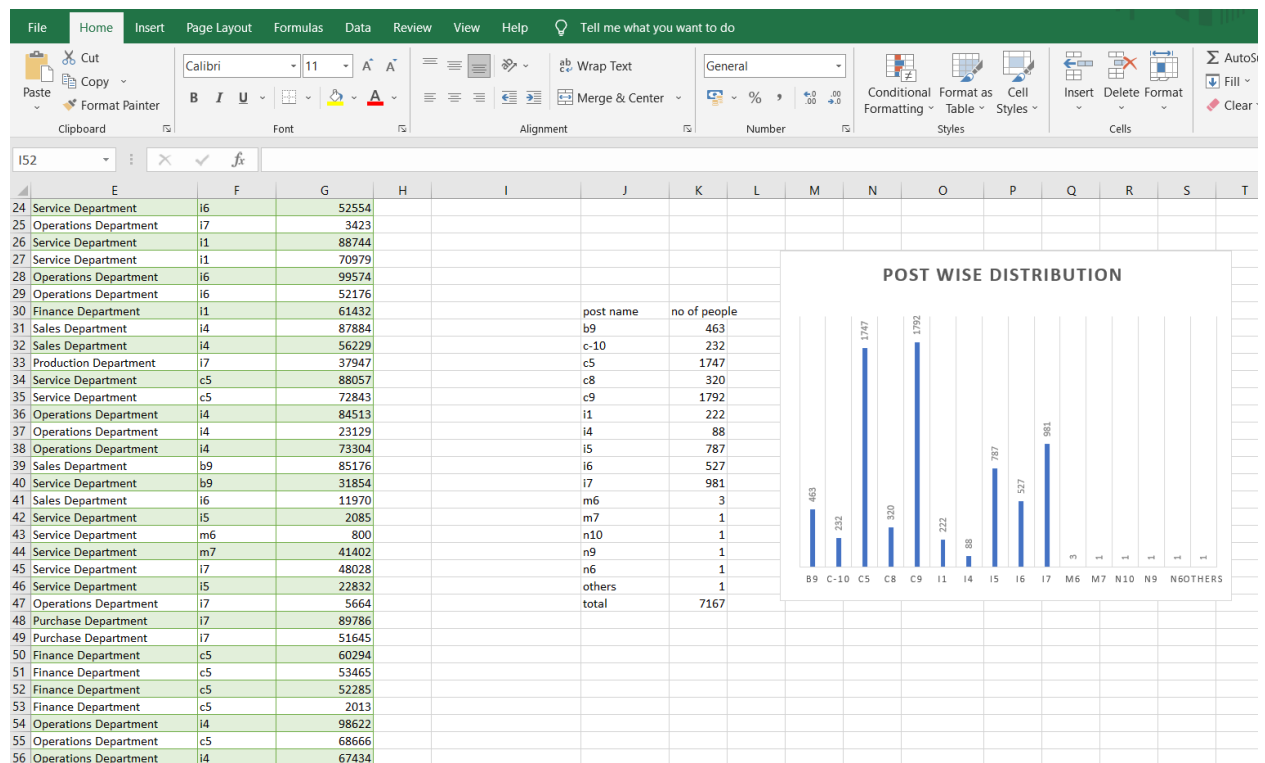
Sales Department

Service Department

Are the categories we use countif for category to get no of people in each department and if ever the data is change the values will automatically be changed according

- Charts:** Use different charts and graphs to perform the task representing the data.

Your task: Represent different post tiers using chart/graph?



insight

post name

b9

c-10

c5

c8

c9

i1

i4

i5

i6

i7

m6

m7

n10

n9

n6

Are the categories we use countif for category to get no of people in each post and if ever the data is change the values will automatically be changed according

