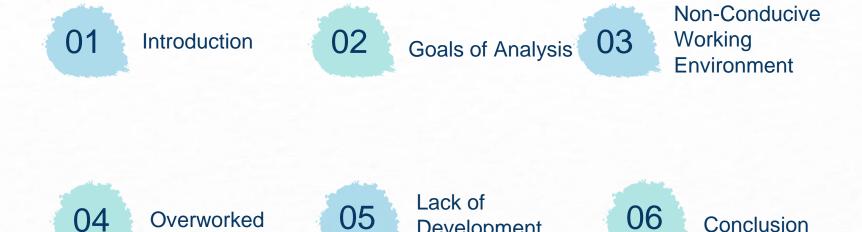
Factors Affecting Employee Turnover Rate

Tableau Intermediate to Advance
Data Science 4 - Dataloper

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Introduction

A large company named XYZ, employs, at any given point of time, around 4000 employees. However, every year, around 15% of its employees leave the company and need to be replaced with the talent pool available in the job market. The management believes that this level of attrition (employees leaving, either on their own or because they got fired) is bad for the company, because of the following reasons -

- The former employees' projects get delayed, which makes it difficult to meet timelines, resulting in a reputation loss among consumers and partners
- A sizeable department has to be maintained, for the purposes of recruiting new talent
- More often than not, the new employees have to be trained for the job and/or given time to acclimatise themselves to the company

Hence, the management has contracted an Dataloper to understand what factors they should focus on, in order to curb attrition. In other words, they want to know what changes they should make to their workplace, in order to get most of their employees to stay. Also, they want to know which of these variables is most important and needs to be addressed right away.



Factors of Turnover Rate

There are several factors that may affect the increasing on employee turnover rate, which are:

- A. Non conducive Working Environment
- B. Overworked
- C. Lack of development
- D. Salary

From those factors we will decide which affects the most towards employee turnover.

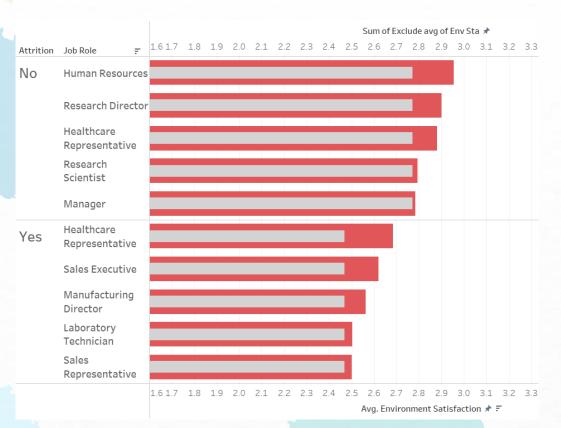


Goals of Analysis

Define the impactful factors of turnover rate



Top 5 Job roles with non-conducive working environment



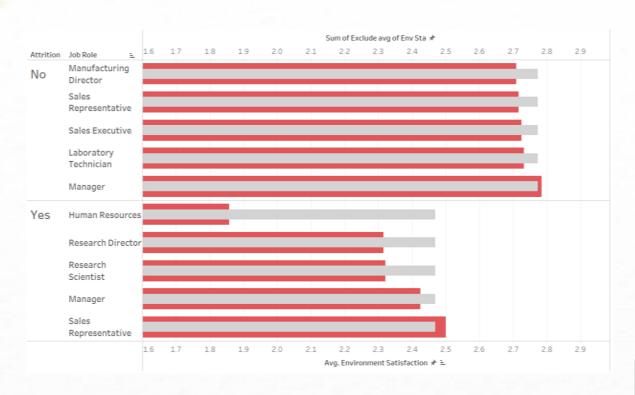
based on Avg of Environment group by Attrition

Measure Names

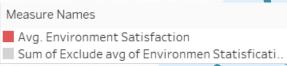
Avg. Environment Satisfaction

Sum of Exclude avg of Environmen Statisficati...

Bottom 5 Job roles with non-conducive working environment

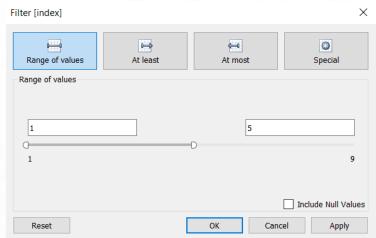


based on Avg of Environment group by Attrition



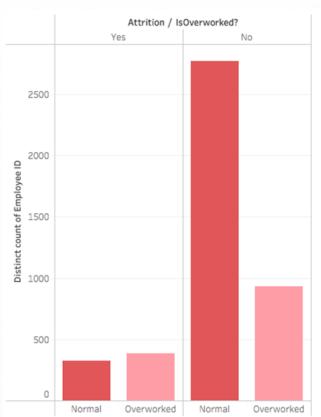
LOD (Exclude) & Filter





04 Overworked

Attrition Based on Working Hours (Fixed)



Attrition Based on Working Hours (Fixed)

WorkingHour				×
DATEDIFF('hour', [In Datetime],	[Out Dat	etime])	
)
The calculation is valid.	6 Dependen	ncies ▼	Apply	ОК

Attrition Based on Working Hours (Fixed)

```
IsOverworked?
{FIXED [Employee ID]:
    IF AVG([WorkingHour]) <= 8 THEN 'Normal'</pre>
     ELSE 'Overworked'
     END
                                                                 OK
The calculation is valid.
                            5 Dependencies ▼
                                                 Apply
```

Attrition Based on Working Hours (Table Calculation)

IsOverworked?

Attrition	Normal	Overworked	Grand Total
No	74.86%	25.14%	100.00%
Yes	45.71%	54.29%	100.00%

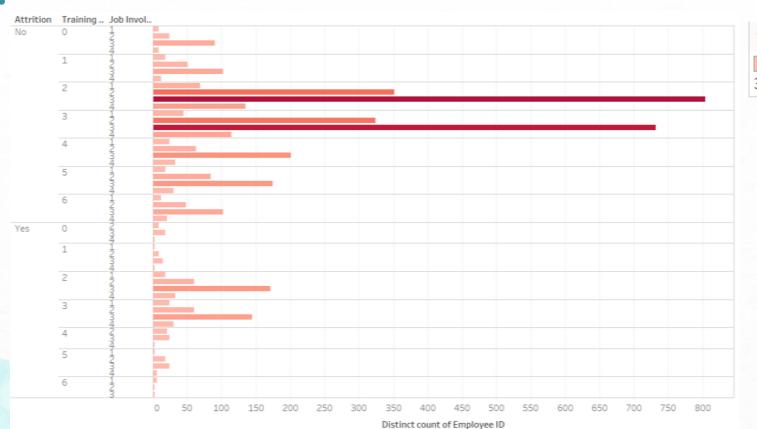
Table Calculation : Percent of Total Compute Using : Table (Accross)





Lack of Development

Attrition based on Training Time Last Year and Job Involvement





Crosstab Attrition based on Training Time Last Year and Job Involvement

		Job Involvement			
Attrition	Training	1	2	3	4
No	0	4.62%	2.54%	4.08%	2.54%
	1	9.23%	5.40%	4.63%	3.39%
	2	35.38%	37.14%	36.46%	38.14%
	3	23.08%	34.29%	33.20%	32.20%
	4	12.31%	6.67%	9.12%	9.32%
	5	9.23%	8.89%	7.89%	8.47%
	6	6.15%	5.08%	4.63%	5.93%
	Total	100.00%	100.00%	100.00%	100.00%
Yes	0		5.00%	4.51%	3.85%
	1	5.56%	5.00%	3.76%	3.85%
	2	33.33%	33.33%	42.86%	42.31%
	3	44.44%	33.33%	36.09%	38.46%
	4		11.67%	6.02%	3.85%
	5	5.56%	10.00%	6.02%	7.69%
	6	11.11%	1.67%	0.75%	
	Total	100.00%	100.00%	100.00%	100.00%
Grand Tot	al	100.00% 100.00% 100.00% 100.00%			100.00%

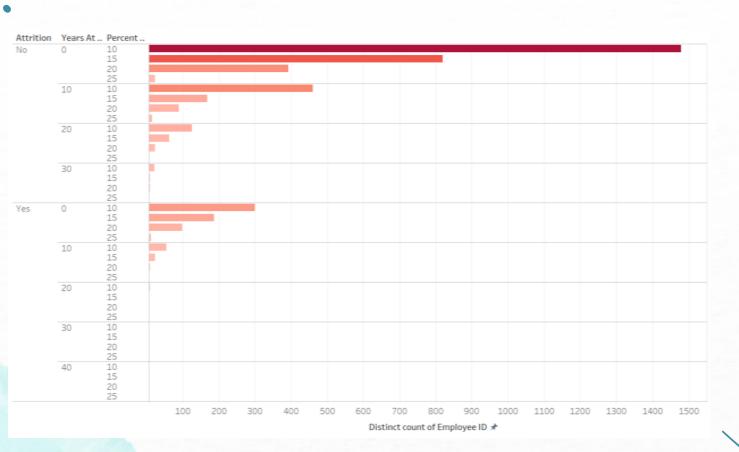


Table Calculation : Percent of Total Compute Using : Training Time

Last Year



Attrition based on Years at Company and Percent Salary Hike





Crosstab Attrition based on Years at Company and Percent Salary Hike

Percent Salary	Hike ((bin)	
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		r creene saidi y riike (biii)			
Attrition	Years At	10	15	20	25
No	0	70.94%	77.34%	76.16%	61.54%
	10	22.01%	15.86%	17.44%	38.46%
	20	6.04%	5.95%	4.65%	
	30	1.01%	0.85%	1.74%	
	Total	100.00%	100.00%	100.00%	100.00%
Yes	0	81.30%	84.93%	91.67%	80.00%
	10	14.63%	10.96%	8.33%	
	20	2.44%	2.74%		
	30	0.81%	1.37%		20.00%
	40	0.81%			
	Total	100.00%	100.00%	100.00%	100.00%
Grand Tot	al	100.00%	100.00%	100.00%	100.00%

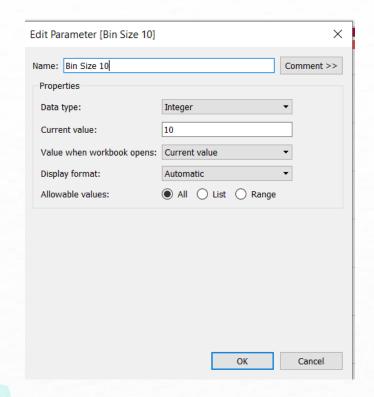
% of Total CNTD(Employee ID)		
0.12%	64.08%	

Table Calculation : Percent of Total Compute Using : Years at

Company



Parameters



Edit Parameter [Bin Size 5]		×
Name: Bin Size 5		Comment >>
Properties		
Data type:	Integer	•
Current value:	5	
Value when workbook opens:	Current value	•
Display format:	Automatic	•
Allowable values:	All List Range	
	ОК	Cancel

Attrition based on Salary

Attrition	Gender	Max. Include departement	Min. Include departement	Avg. Monthly Income
No	Female	76,551	56,471	65,165
	Male	67,259	49,435	66,016
Yes	Female	74,214	51,300	61,441
	Male	67,658	52,158	61,831

LOD (Include)





Conclusion

Based on the analysis we can conclude that:

- Based on overworking and lack of development, there was no significant contribution to the employee turnover rate.
- Based on salary, there was a slightly contribution to the employee turnover rate.
- The biggest factor affecting the increasing of employee turnover rate is the non-conducive working environment



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