

Dataset Link

Employee Attrition Analysis

Trends and challenges

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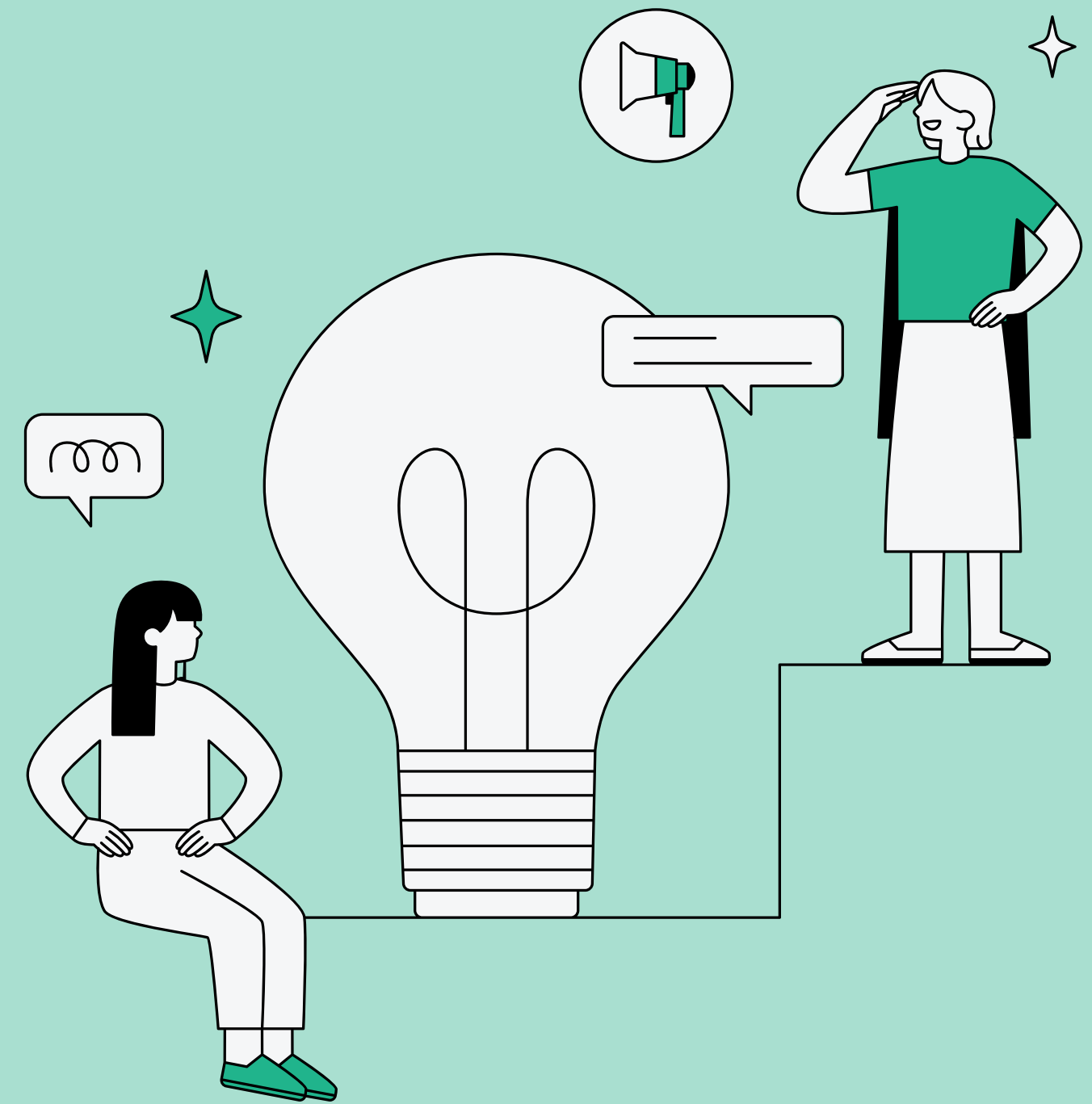
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Employee Attrition



Introduction to results analysis

The primary objective of this project is to analyze employee attrition within our organization using data-driven insights. By examining factors such as demographics, job-related variables, and satisfaction levels, we aim to understand the reasons behind employee turnover. The project seeks to identify trends, patterns, and correlations within the dataset to provide actionable recommendations for improving employee retention and organizational success.



Overview

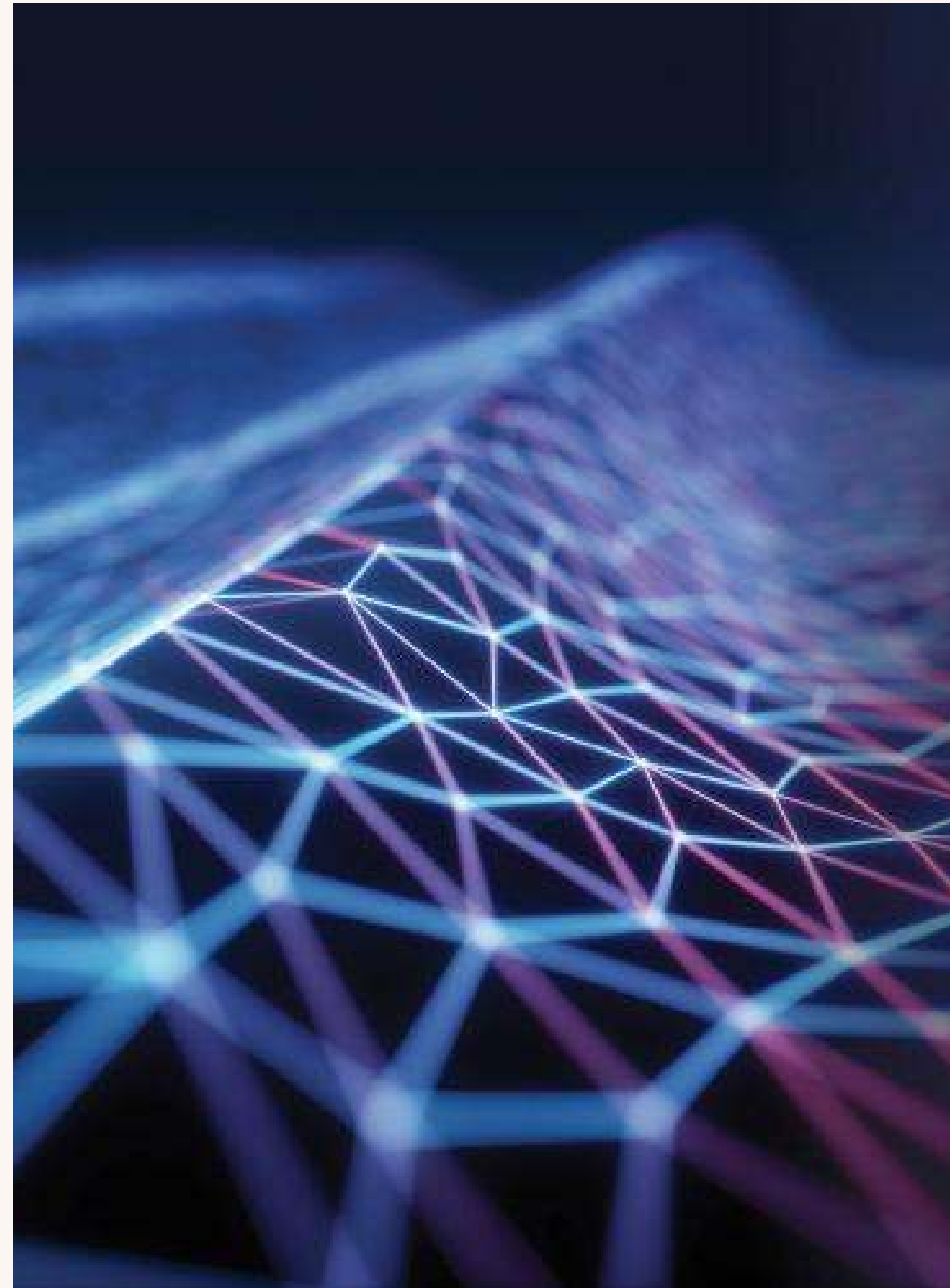
This dataset includes data such as employee age, gender, marital status, job role, monthly income, years at the company, performance ratings, and more.

Studying employee attrition trends is crucial for several reasons. It provides insights into the overall health of our workforce and organizational culture. By identifying patterns and trends in attrition, we can make informed decisions and enhance employee satisfaction and engagement.

Methodology:

The methodology consists of several steps, including data preparation, exploratory data analysis.

The analysis is conducted using Power BI and Excel.



Total Employee And Attrition Rate,

Attrition Rate: The attrition Rate means “Employee % who have left the company”.

There Were Total **4410** Employee in Organization and **16.12%** left the company and This 16.12% is Attrition Rate. The attrition rate is calculated by dividing the count of employees who left by the total count of employees.

Total Employee

4410

Attrition Rate %

16.12

15

10

5

0

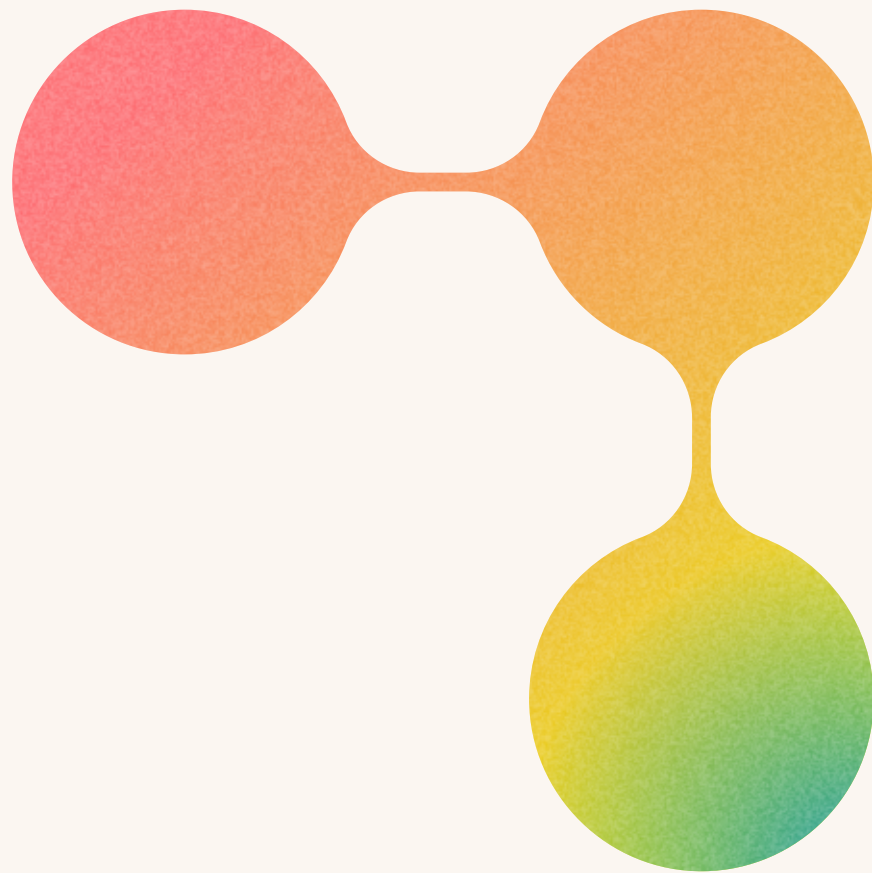


Attrition rate Formulla:

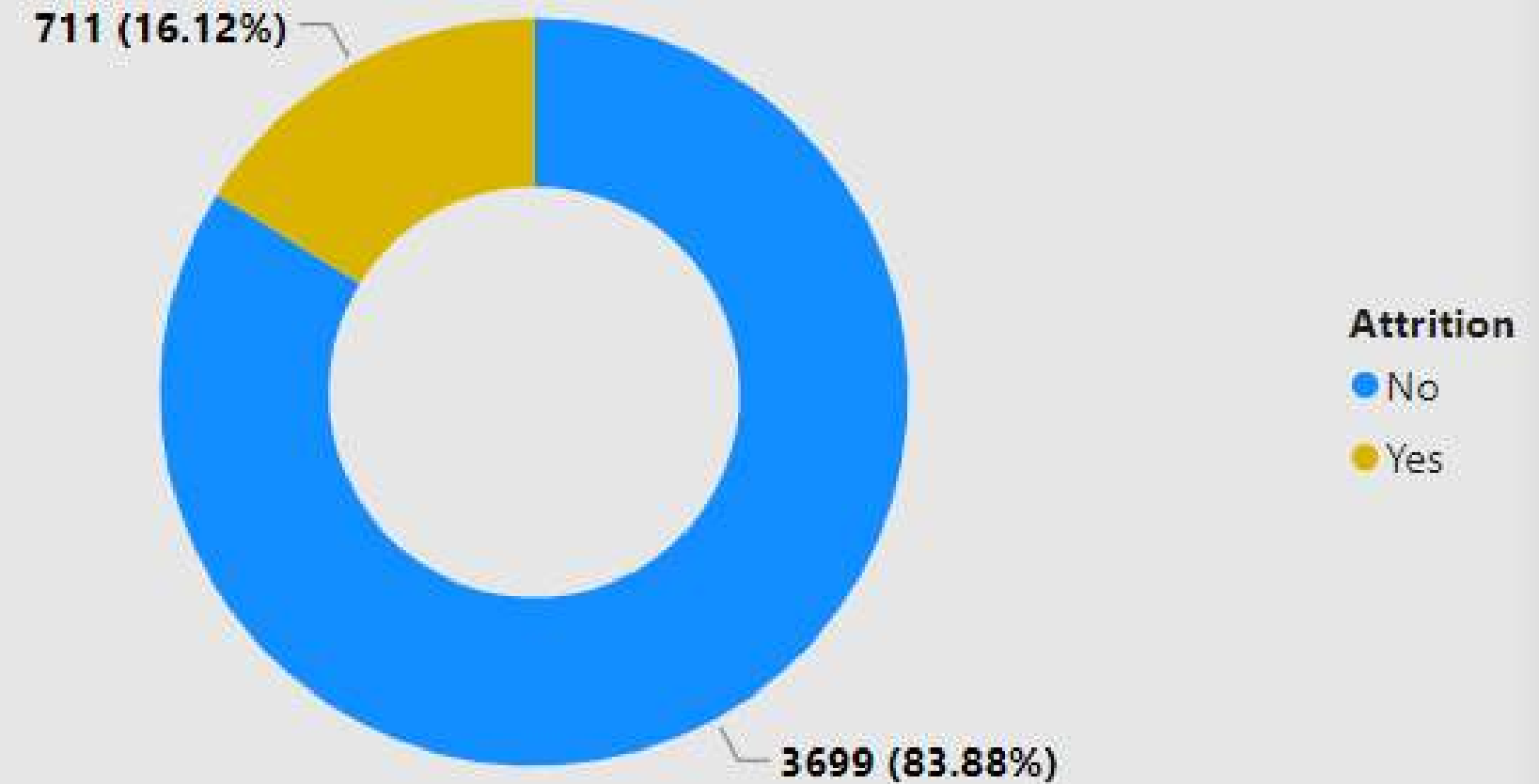
```
Attrition Rate = VAR TotalEmployee = SUM('AttritionCounts'[Count])
VAR leftemployee = CALCULATE(SUM('AttritionCounts'[Count]),'AttritionCounts'[Attrition]="Yes")
RETURN
IF(ISBLANK(TotalEmployee),BLANK(),(leftemployee/TotalEmployee)*100)
```


Employee Count Over Attrition

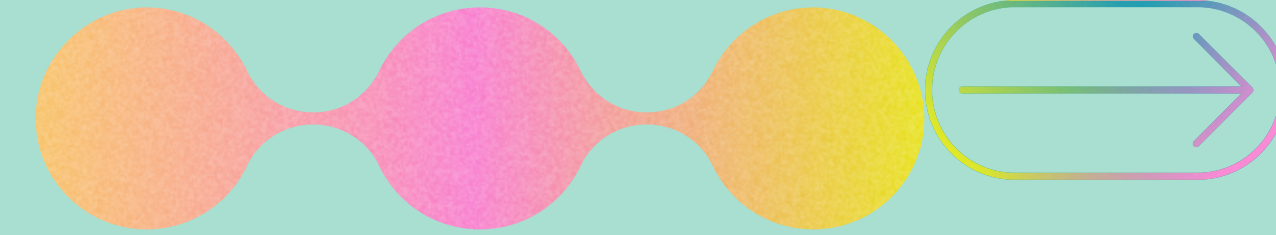
There are total of 4410 employees in organization. 711 employees left the organization, and 3699 employees are working till now.



Employee Count by Attrition

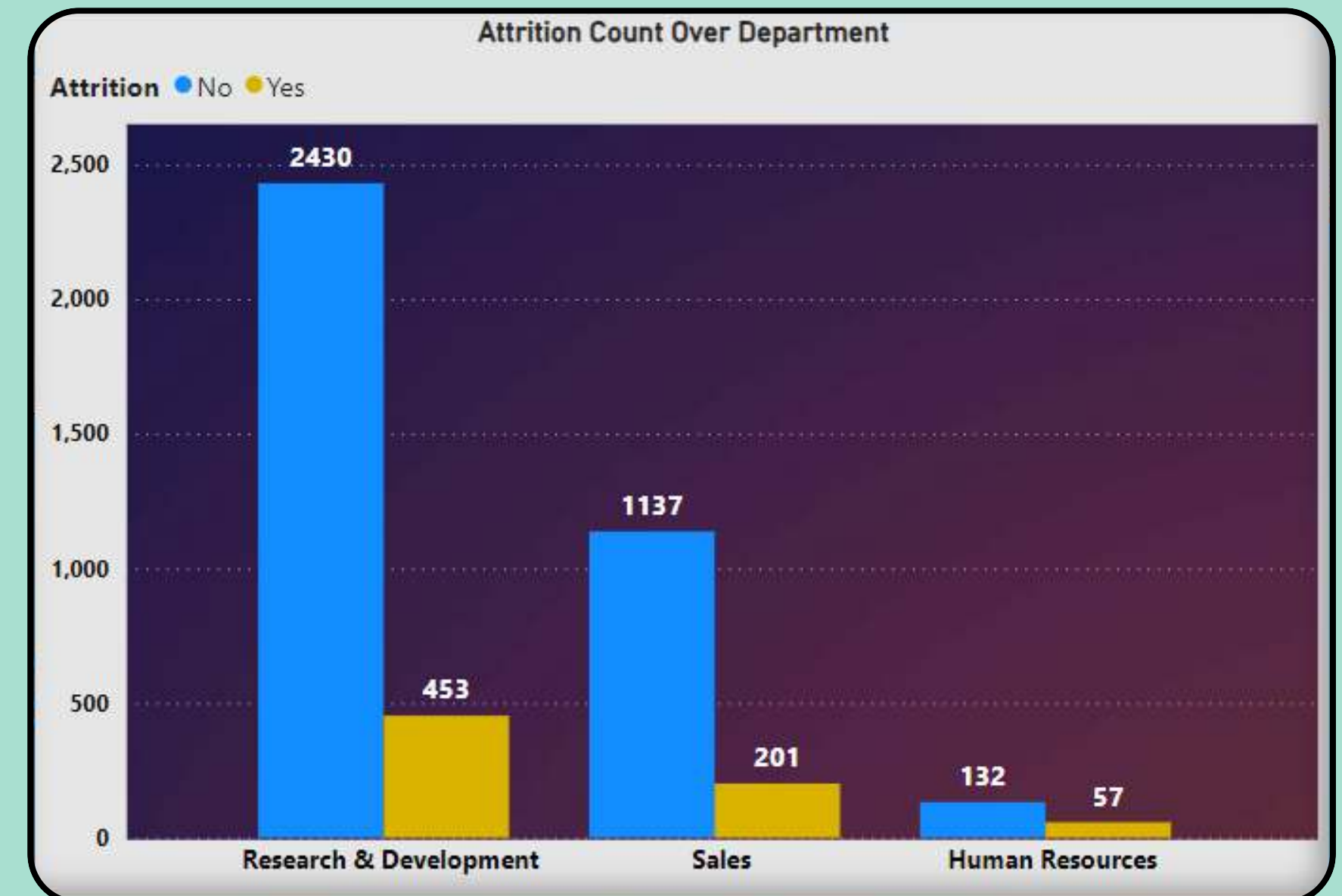
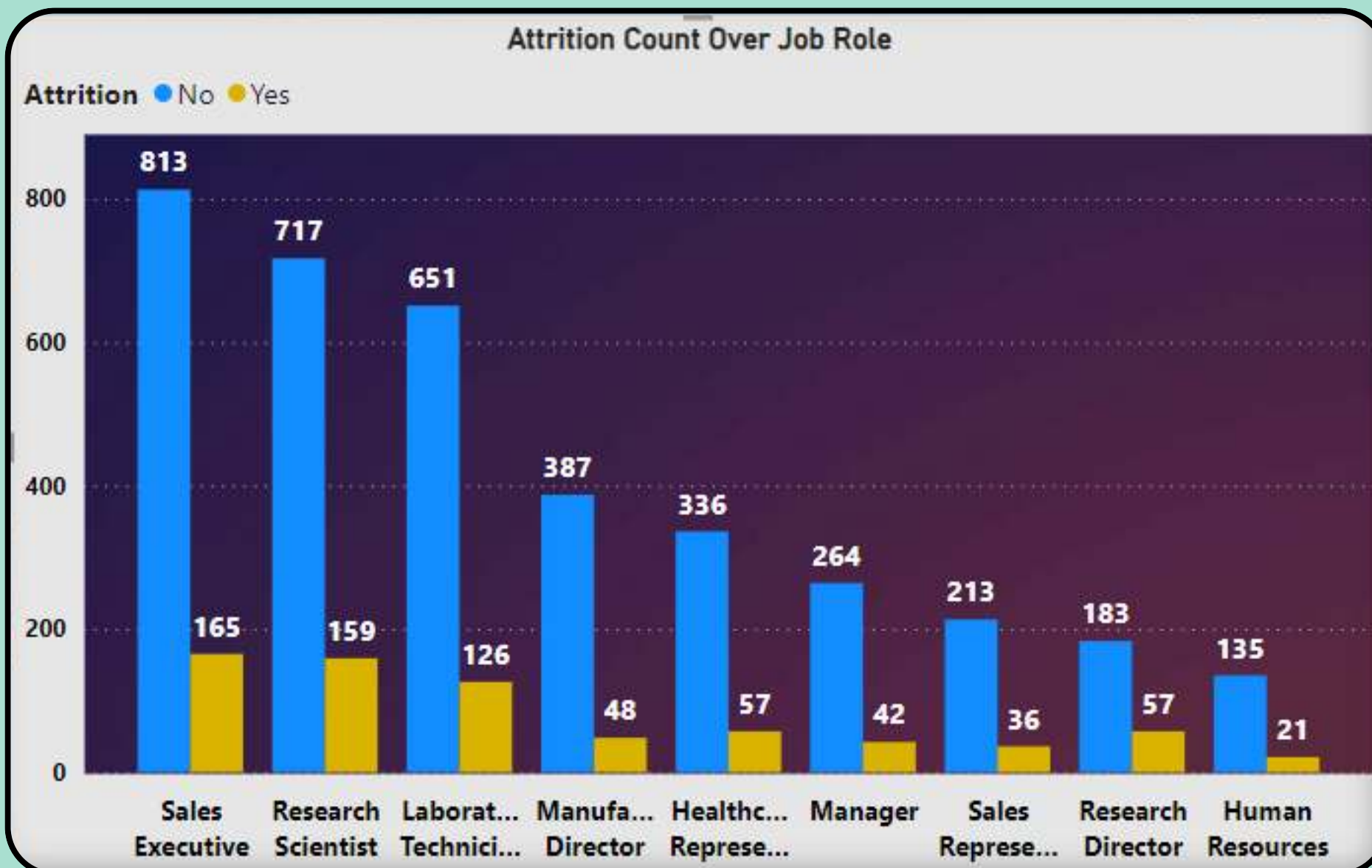


Attrition Count Over Department and job Role



Certain job roles, such as Sales Executive, Research Scientist have higher attrition rates compared to others. This insight highlights the importance of assessing job satisfaction and career development opportunities for employees in critical roles.

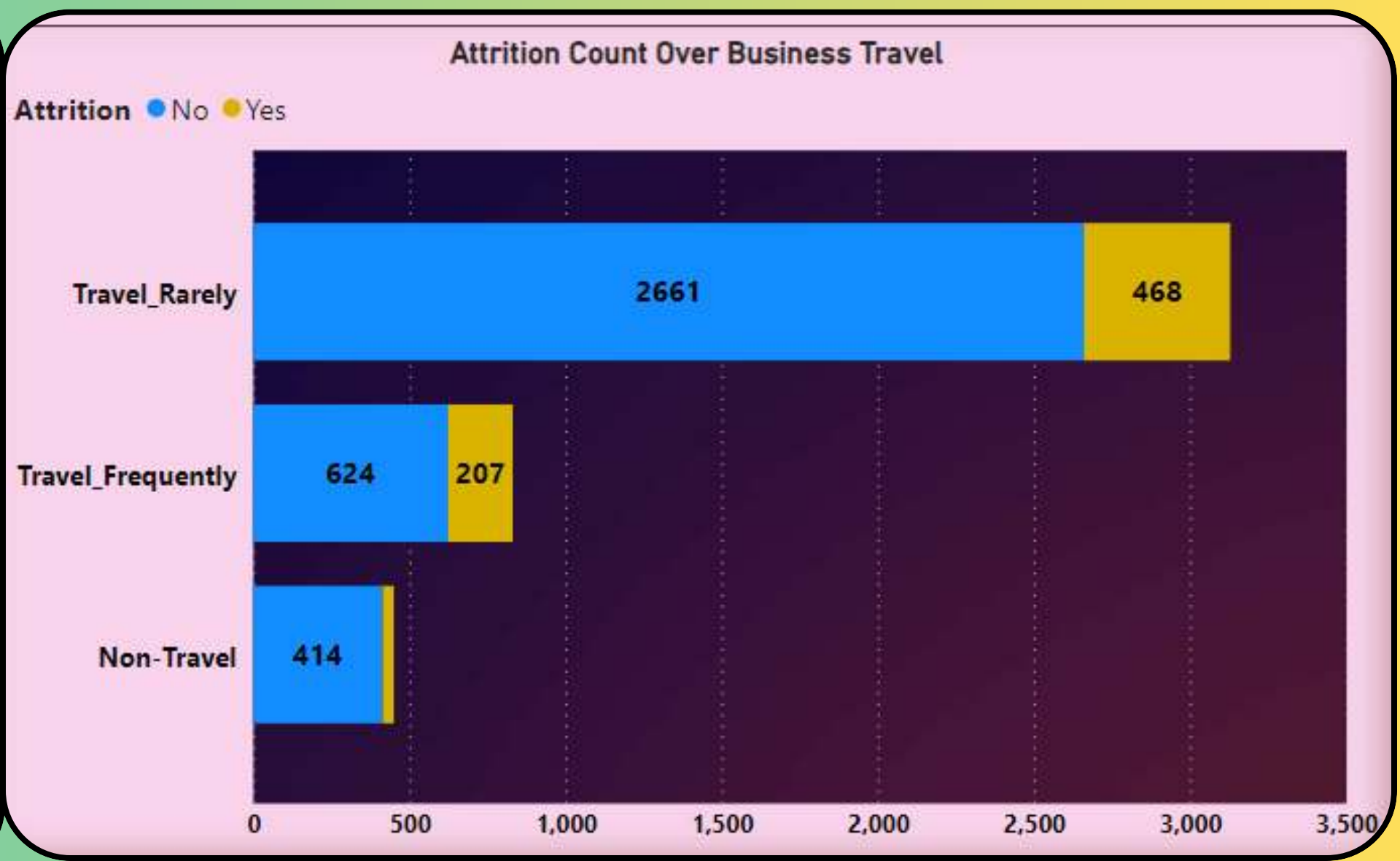
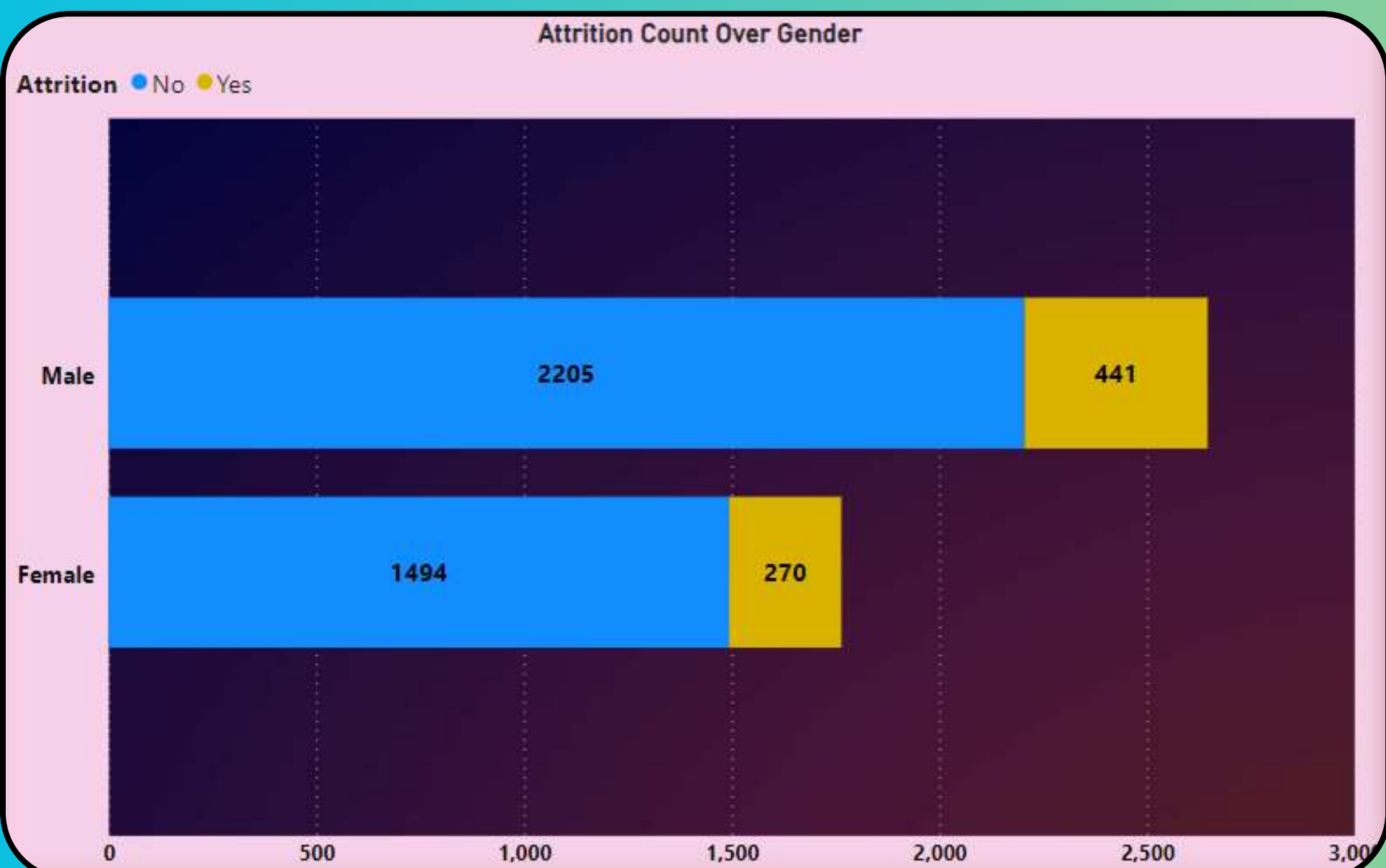
Attrition rates vary across departments, with the highest rates observed in Research and development. Understanding department-specific attrition trends can help identify areas for targeted interventions.



Attrition Count Over Gender and business travel

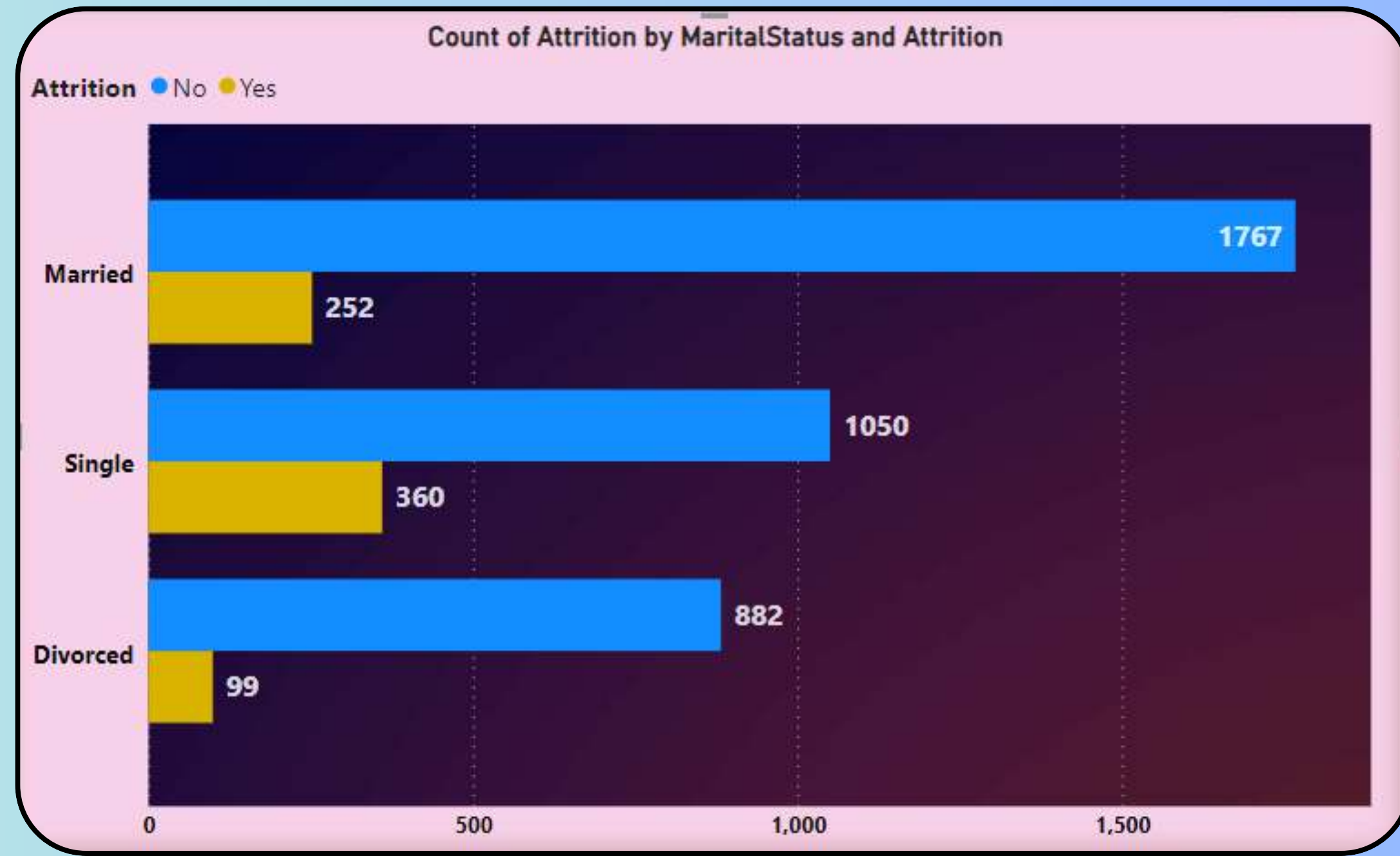
We can see that which gender and business travel is on the top based on attrition.

in below charts we can see that 441 male and 270 female left the job and 468 employee in travel_rarely and 207 in travel_frequently frequently left the job.



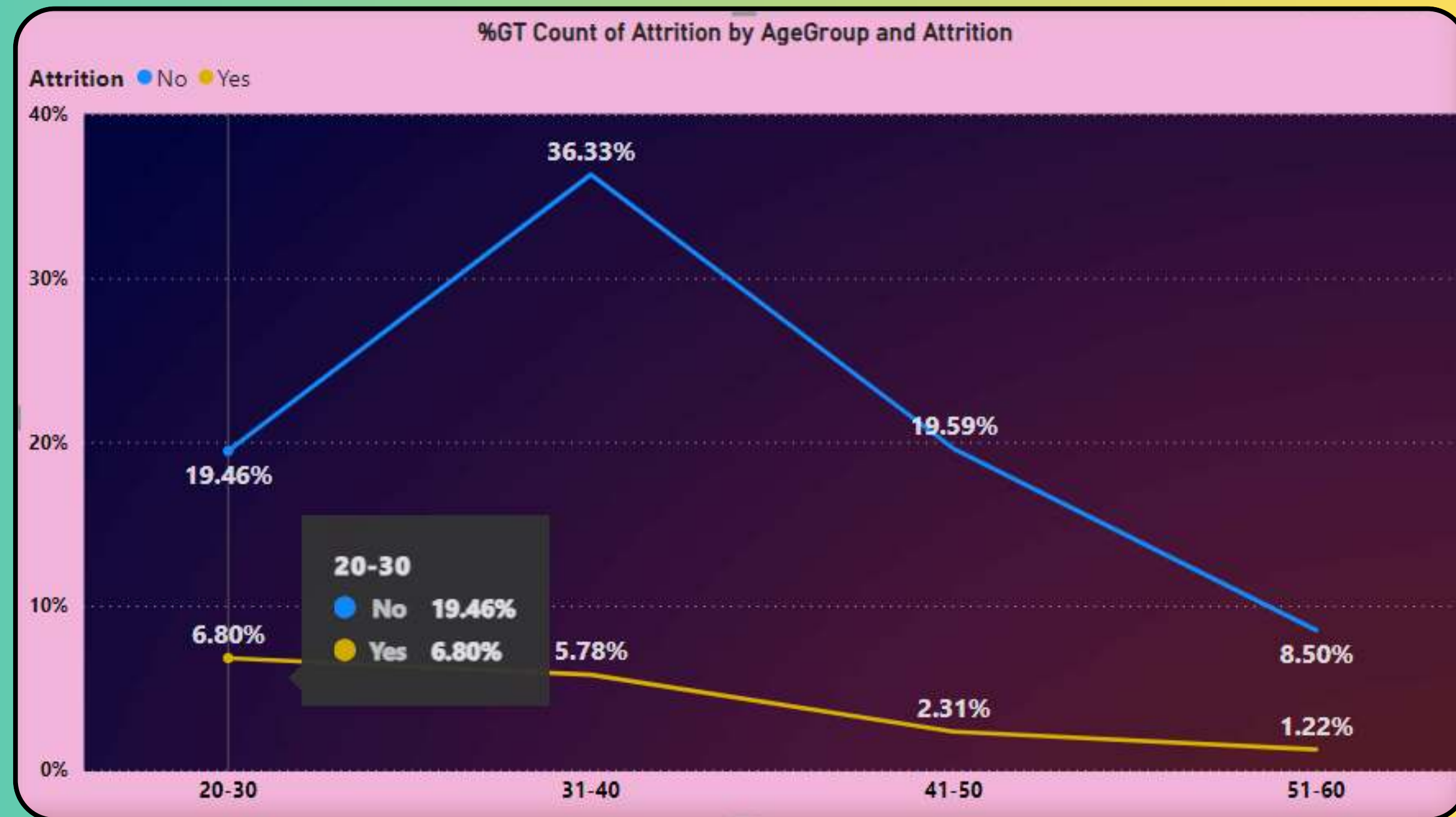
:Attrition Count over marital status:

Mostly employee (252) who are single left the job. and second who are married (252) left the job.



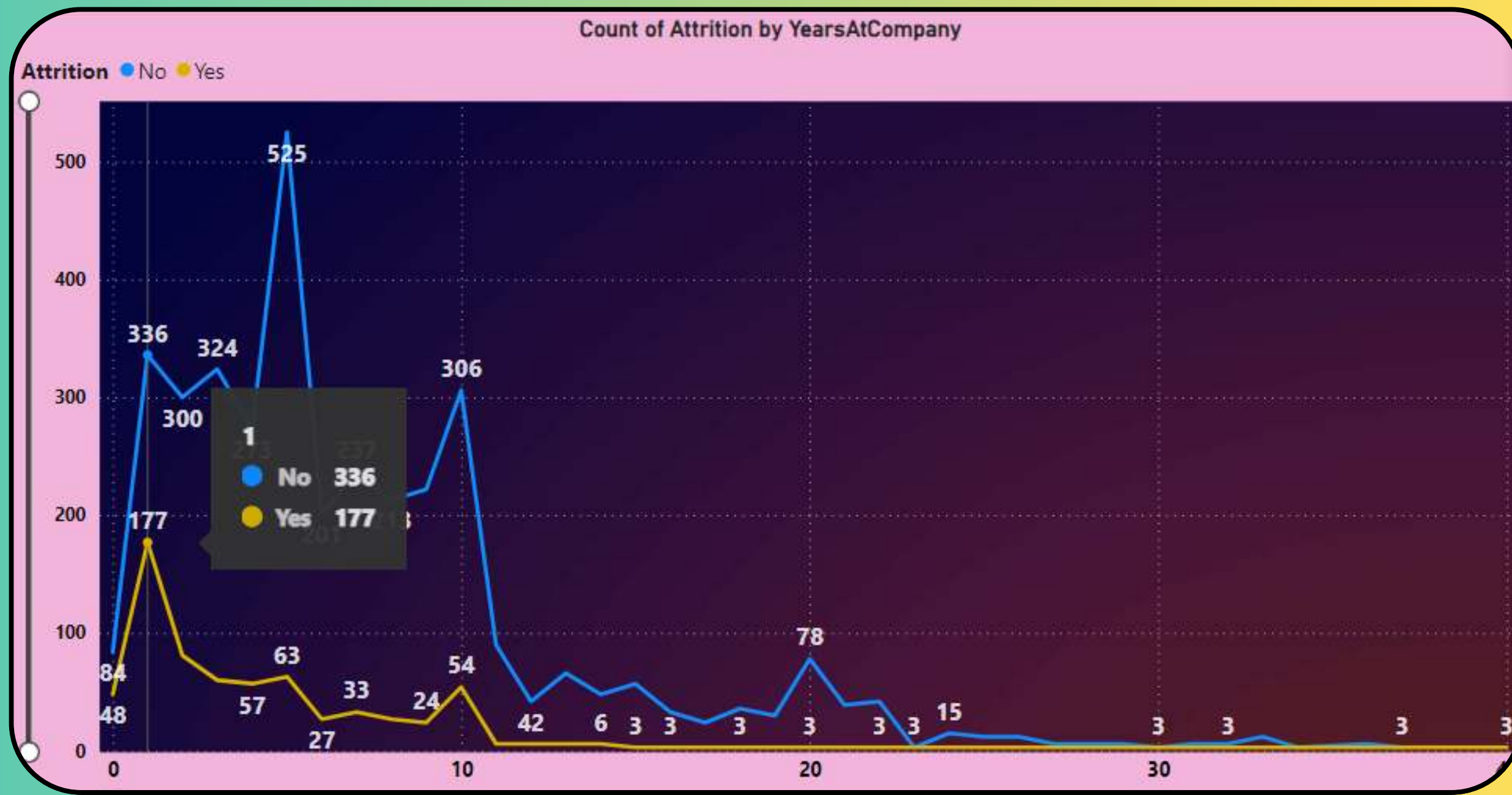
:Attrition Count % over Age Group:

Younger employees (20-30 age group) exhibit higher attrition Count(6.80%) compared to older employees. Understanding age-related attrition patterns can inform targeted retention strategies, such as mentorship programs or career development initiatives.



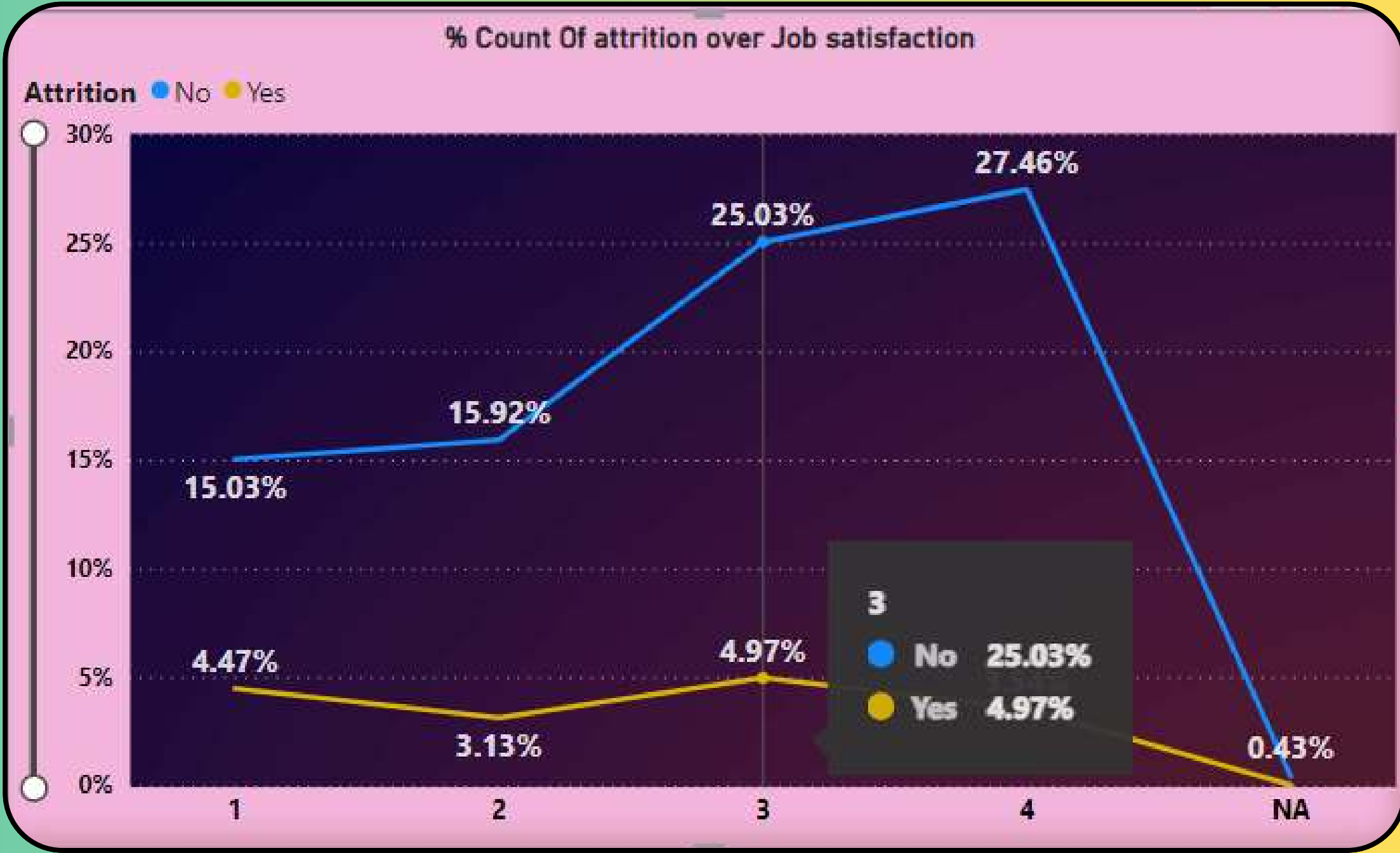
:Attrition Count over Yearsatcompany:

- Employees with fewer years of service (1-3 years) have higher attrition rates compared to those with longer tenure.
- There is a notable decrease in attrition rates as employees reach 5 or more years of service.



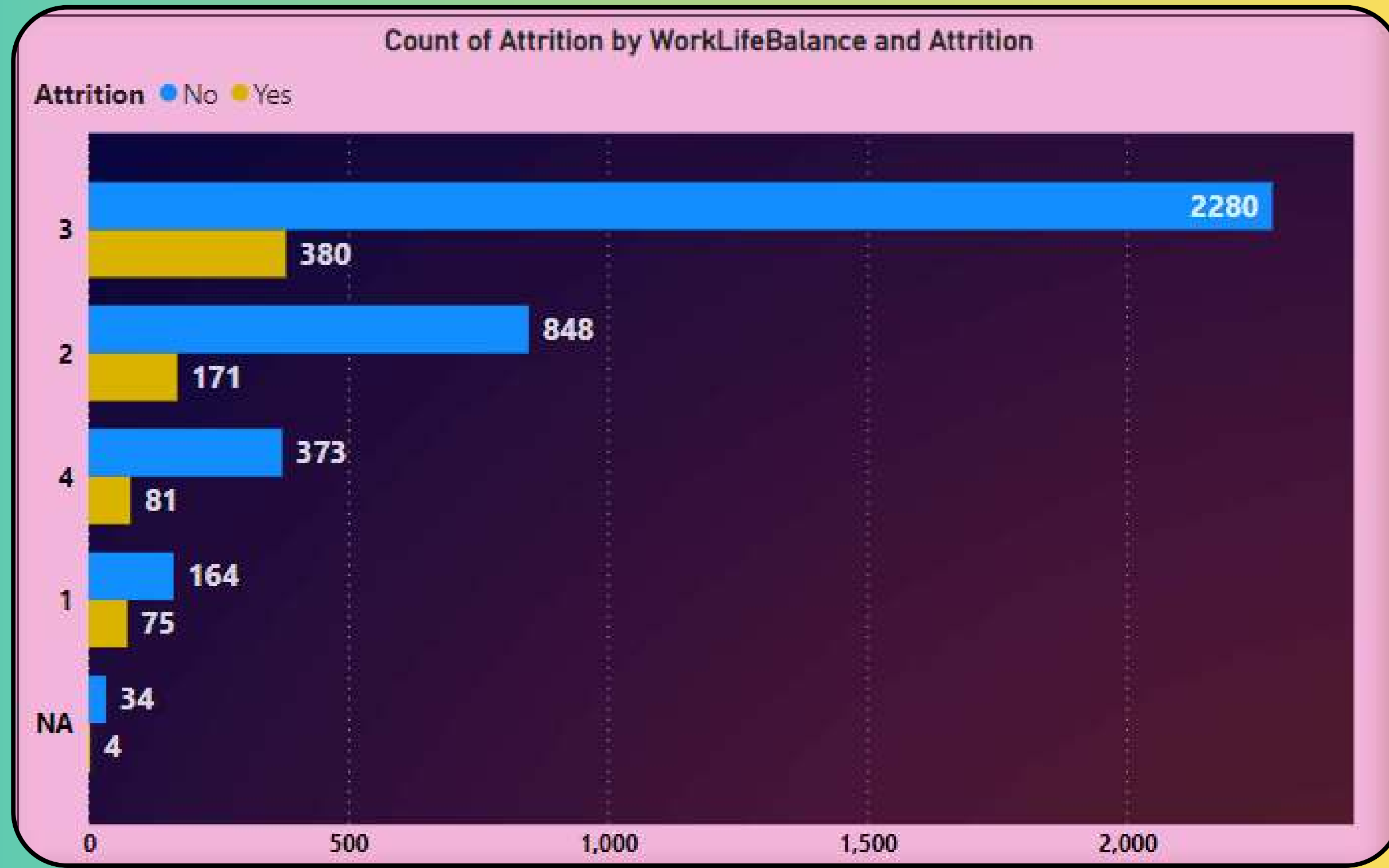
:Attrition Count % over Job Satisfaction:

Employees with lower and mid job satisfaction Rating tend to have higher attrition rates, indicating the importance of addressing factors contributing to job dissatisfaction to improve retention.



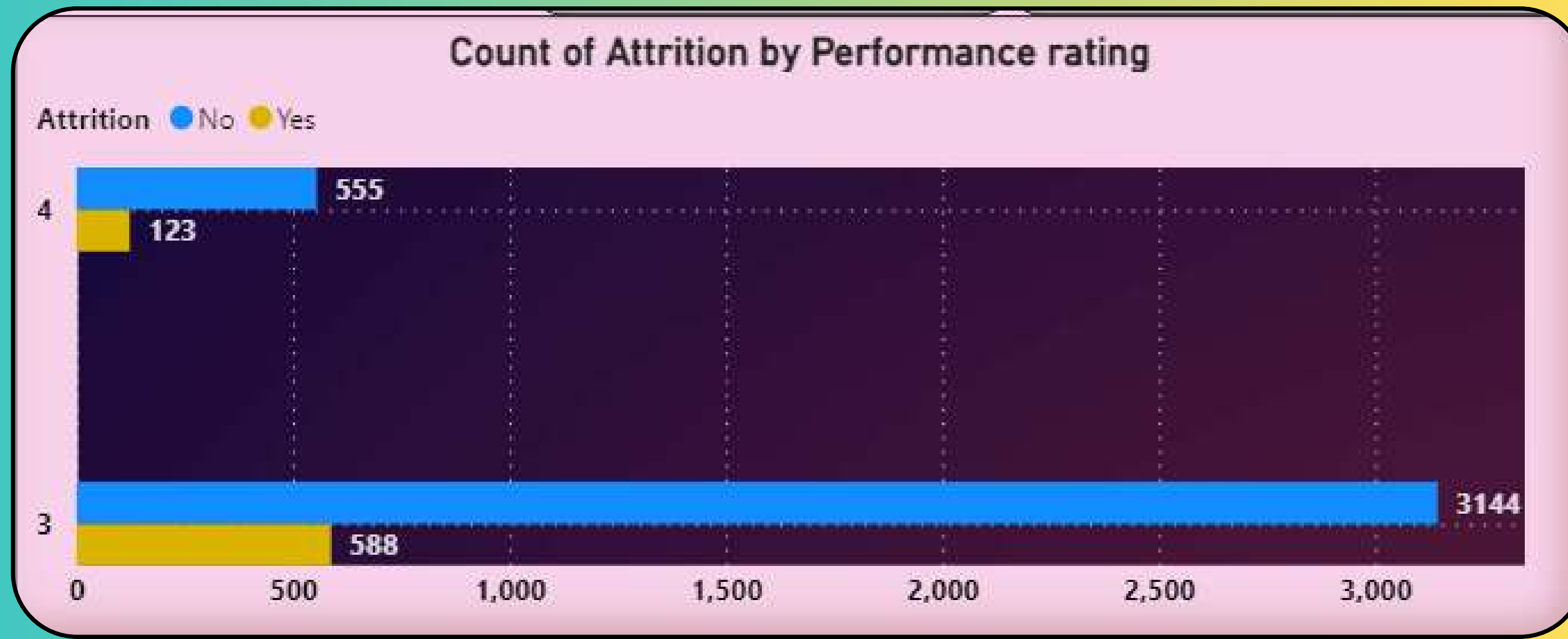
:Attrition Count Over Work Life Balance:

Employees reporting poor and mid work-life balance exhibit higher attrition rates, highlighting the need for policies and practices that support employee well-being and work-life integration.



:Attrition Count over Performance Rating:

Employees with lower performance ratings demonstrate higher attrition rates, emphasizing the importance of performance management and development programs in retaining top talent.



Employee Attrition Analysis- Dashboard

Total Employee

4410

MaritalStatus

Divorc...

Married

Single

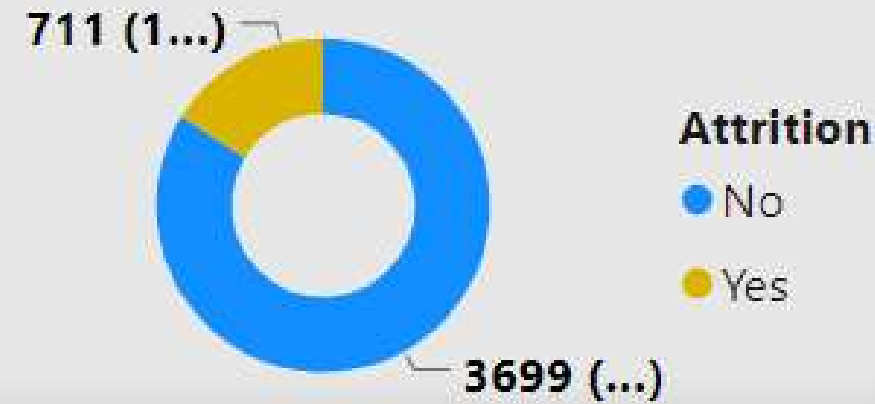
Gender

Select..

Female

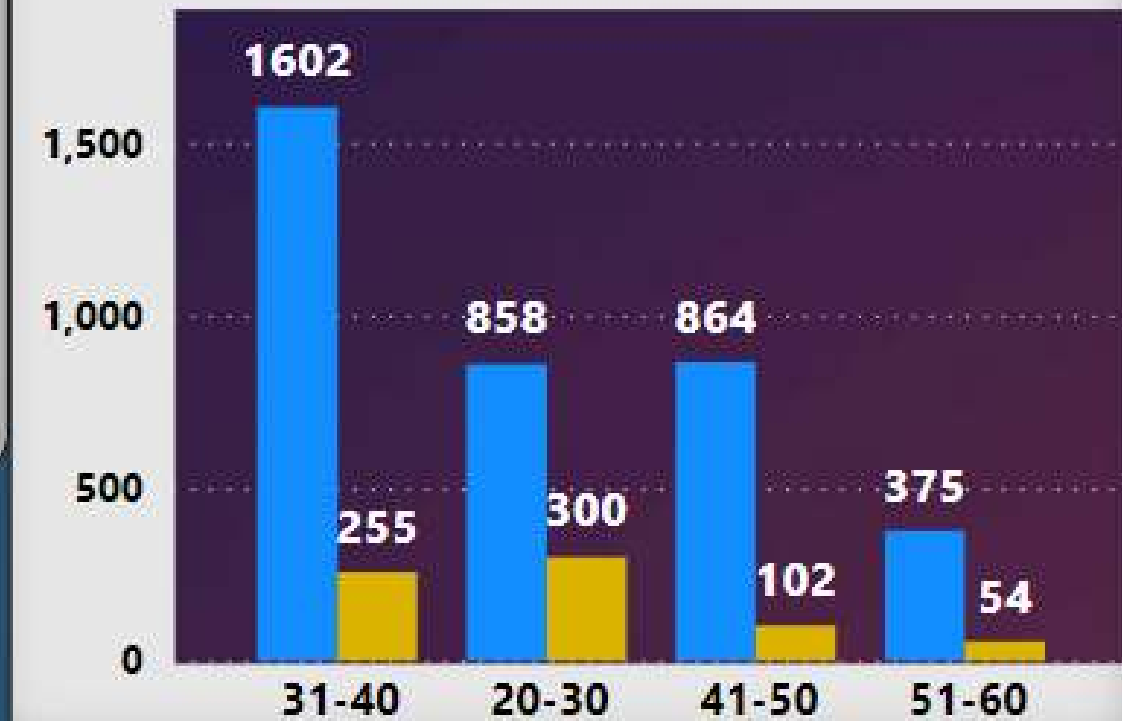
Male

Employee Count by Attrition



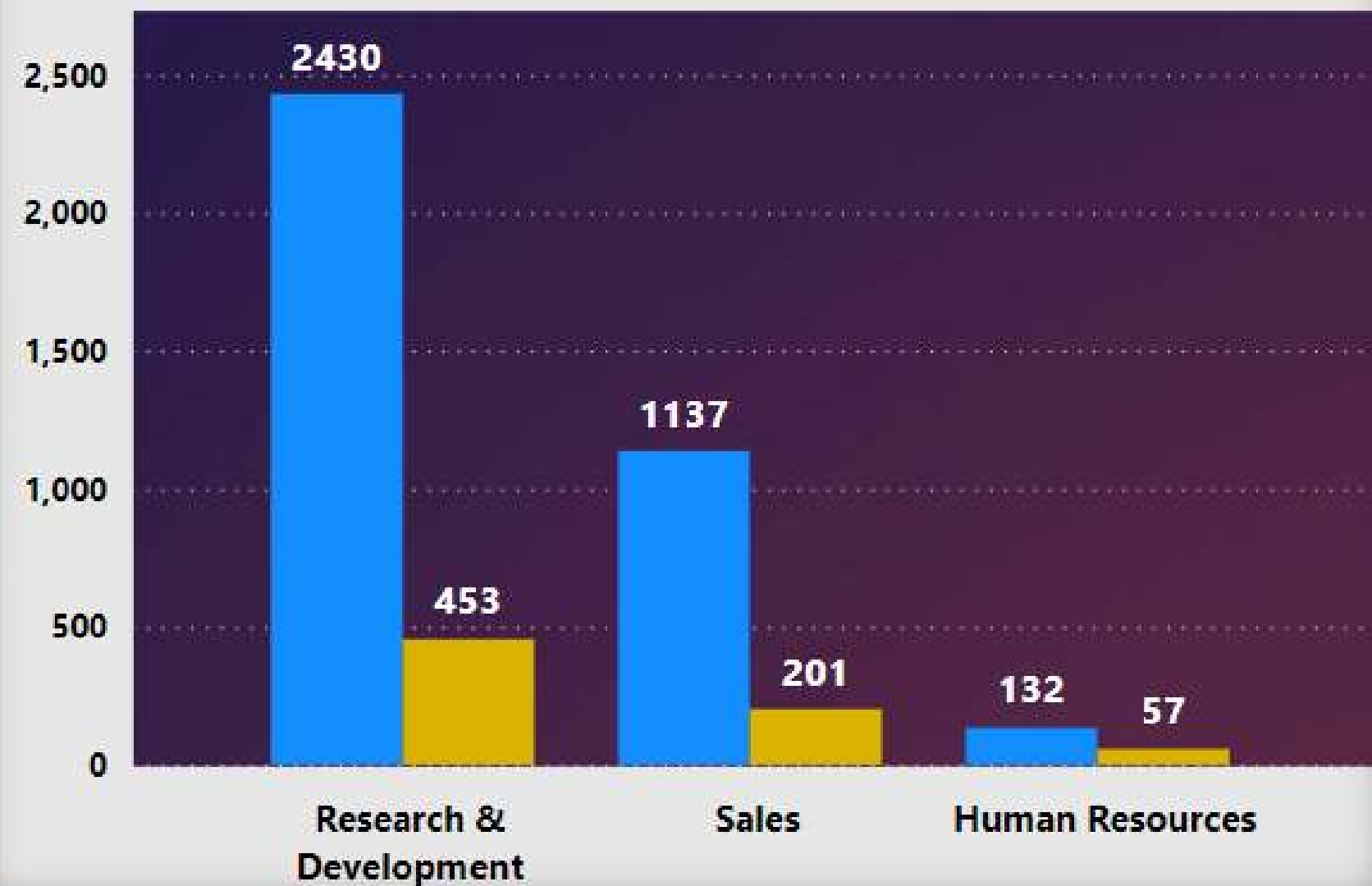
Attrition Count Over Department

Attrition ● No ● Yes

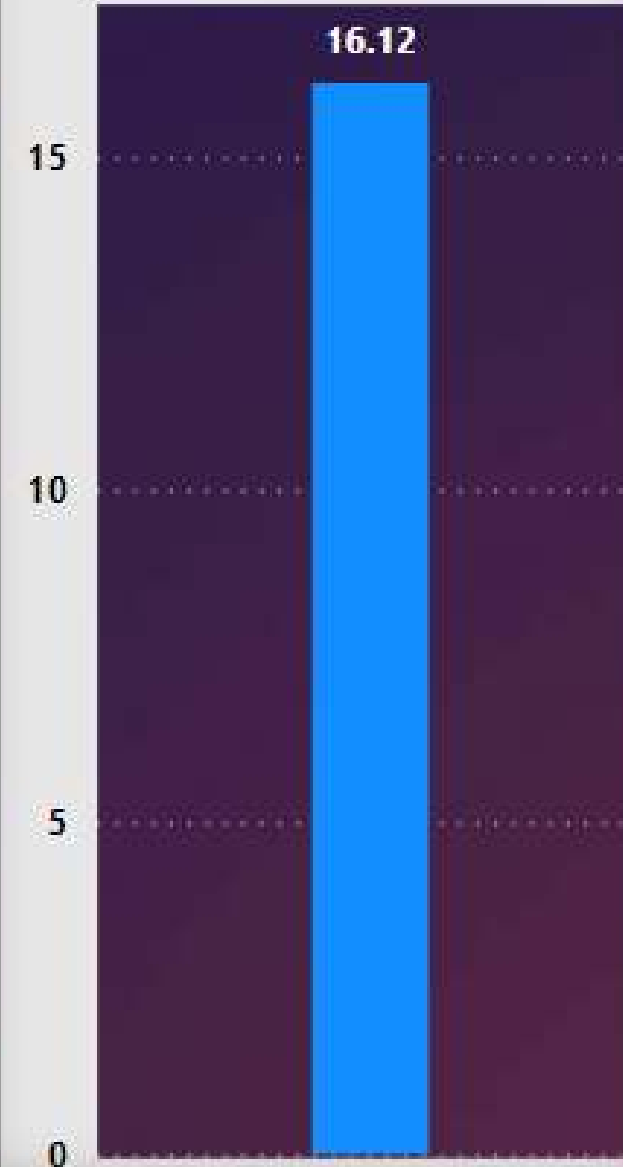


Attrition Count Over Department

Attrition ● No ● Yes

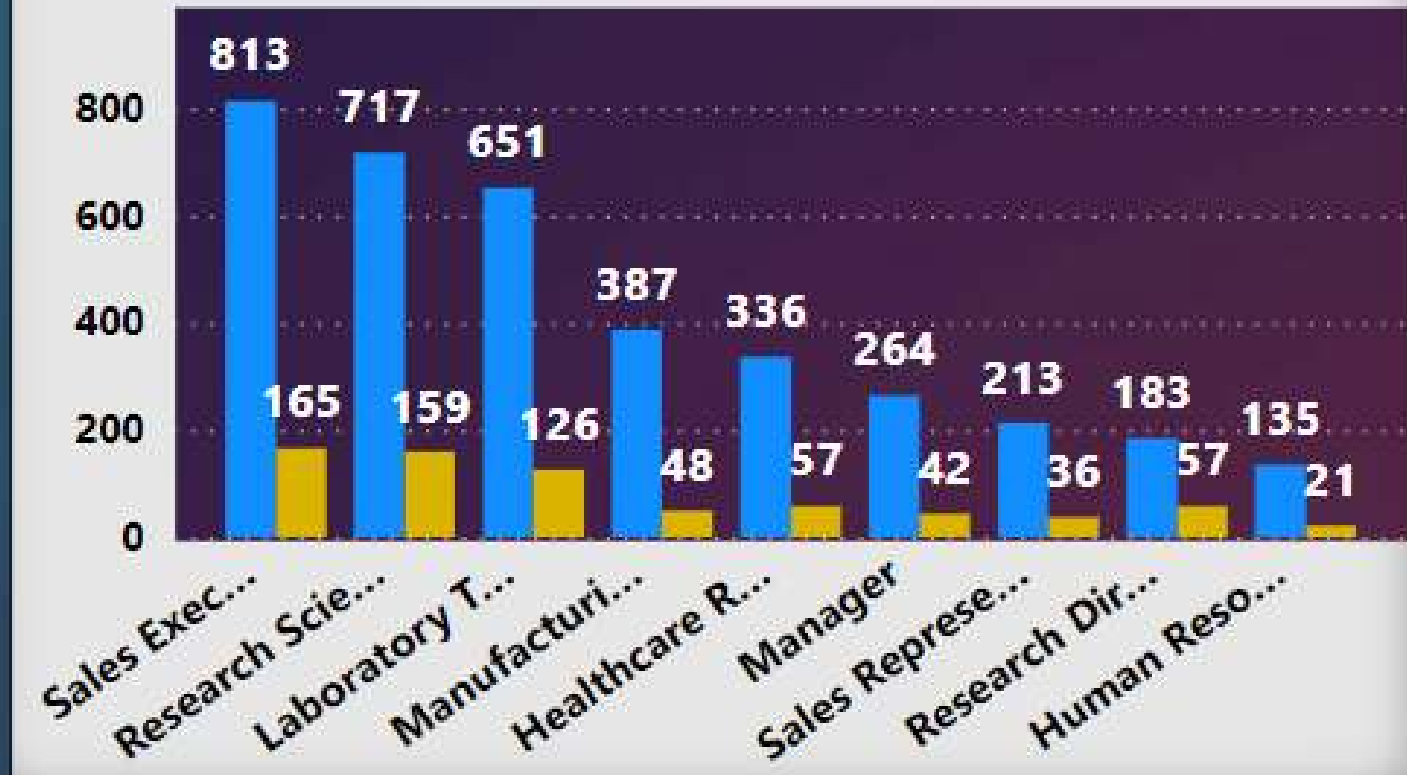


Attrition Rate %



Attrition Count Over Job Role

Attrition ● No ● Yes



Employee Attrition Analysis

Gender

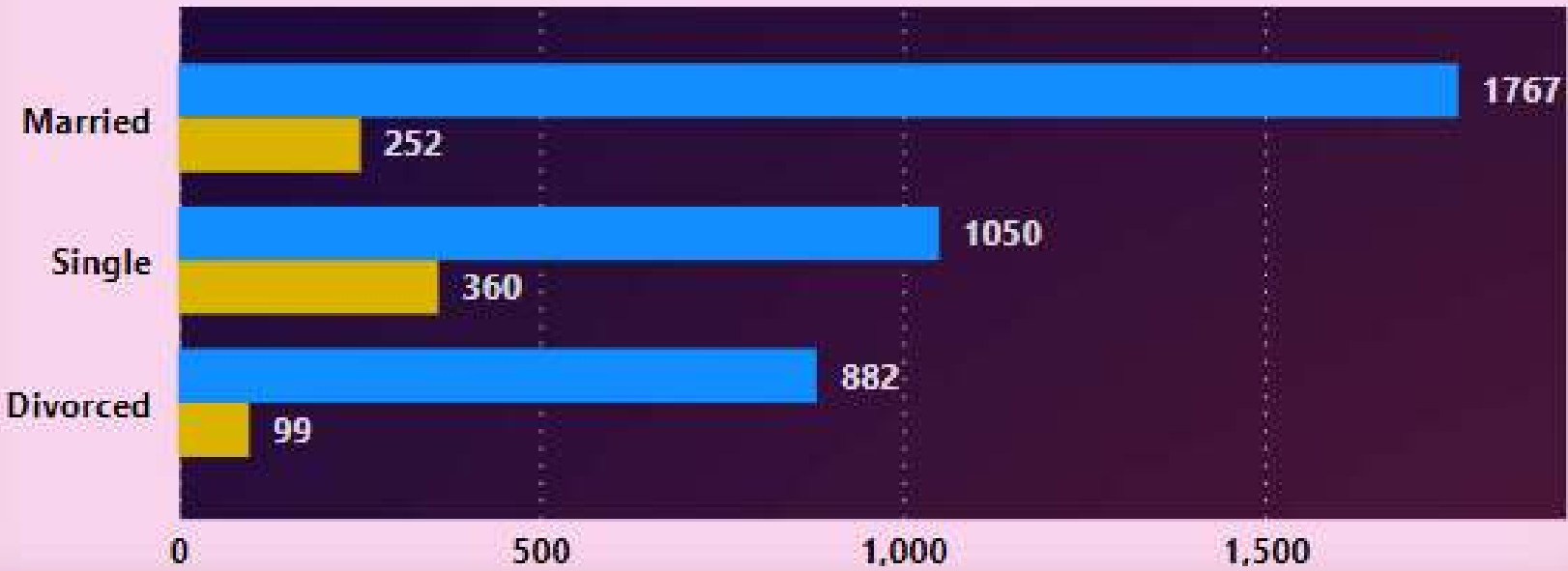
S...F...M...

MaritalStatus

Divor...Marri...Single

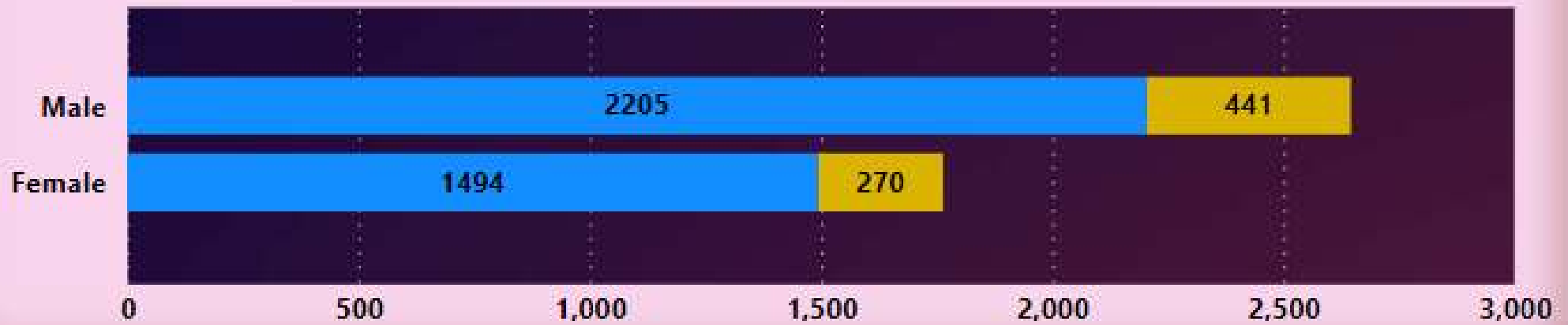
Count of Attrition by MaritalStatus

Attrition ● No ● Yes



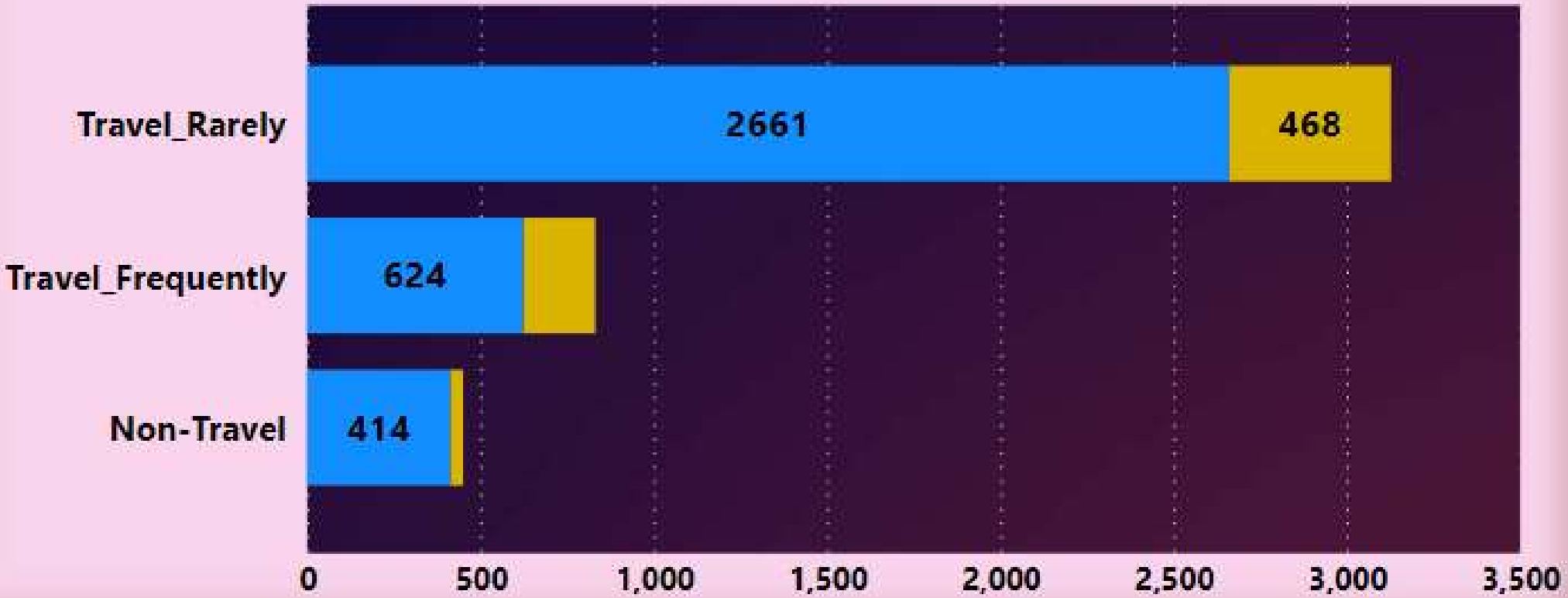
Attrition Count Over Gender

Attrition ● No ● Yes



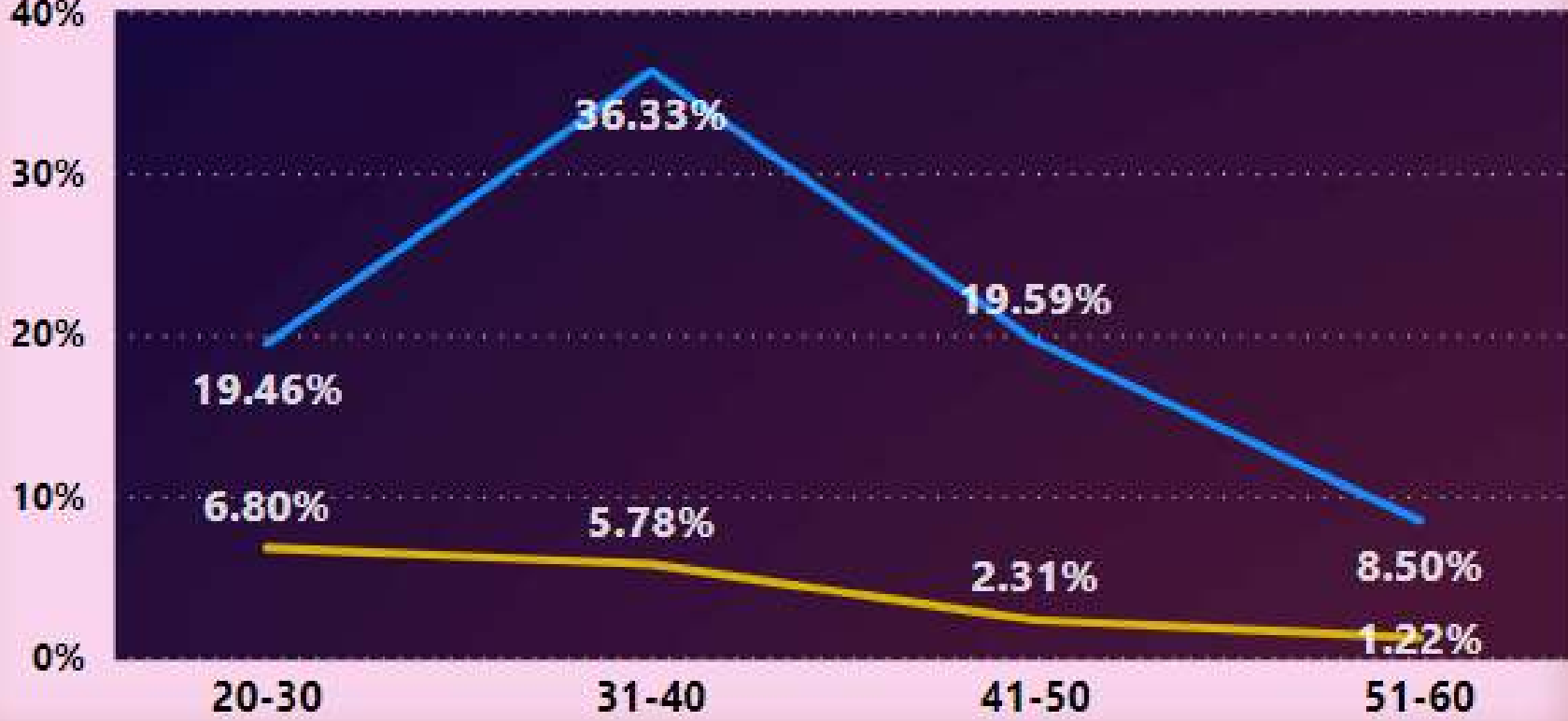
Attrition Count Over Business Travel

Attrition ● No ● Yes



%GT Count of Attrition by AgeGroup

Attrition ● No ● Yes



Employee Attrition Analysis

MaritalStatus

Di...

M...

Si...

Gender

Sele...

Fem...

Male

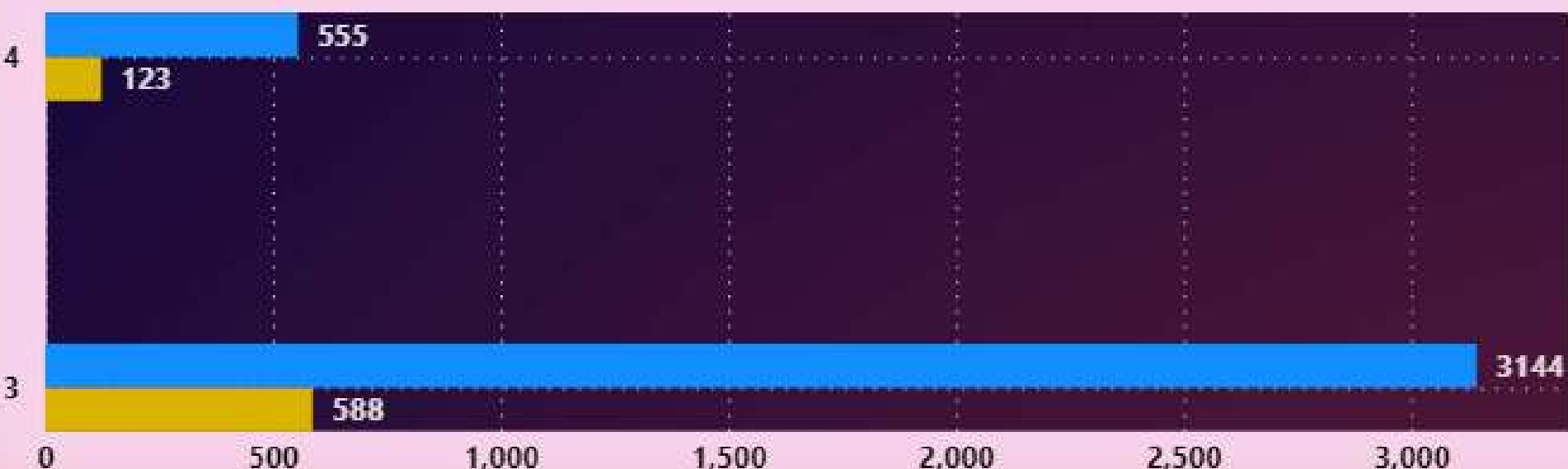
Count of Attrition by WorkLifeBalance

Attrition ● No ● Yes



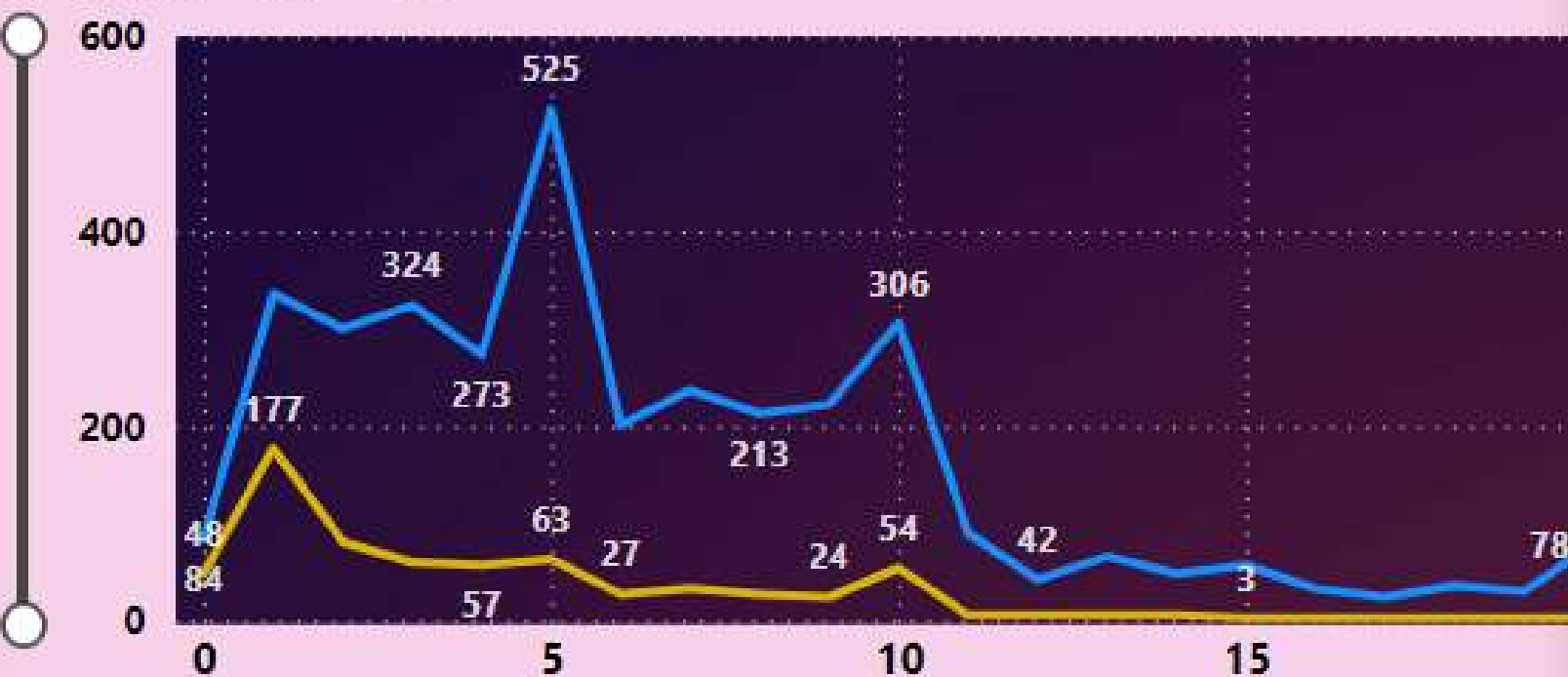
Count of Attrition by Performance rating

Attrition ● No ● Yes



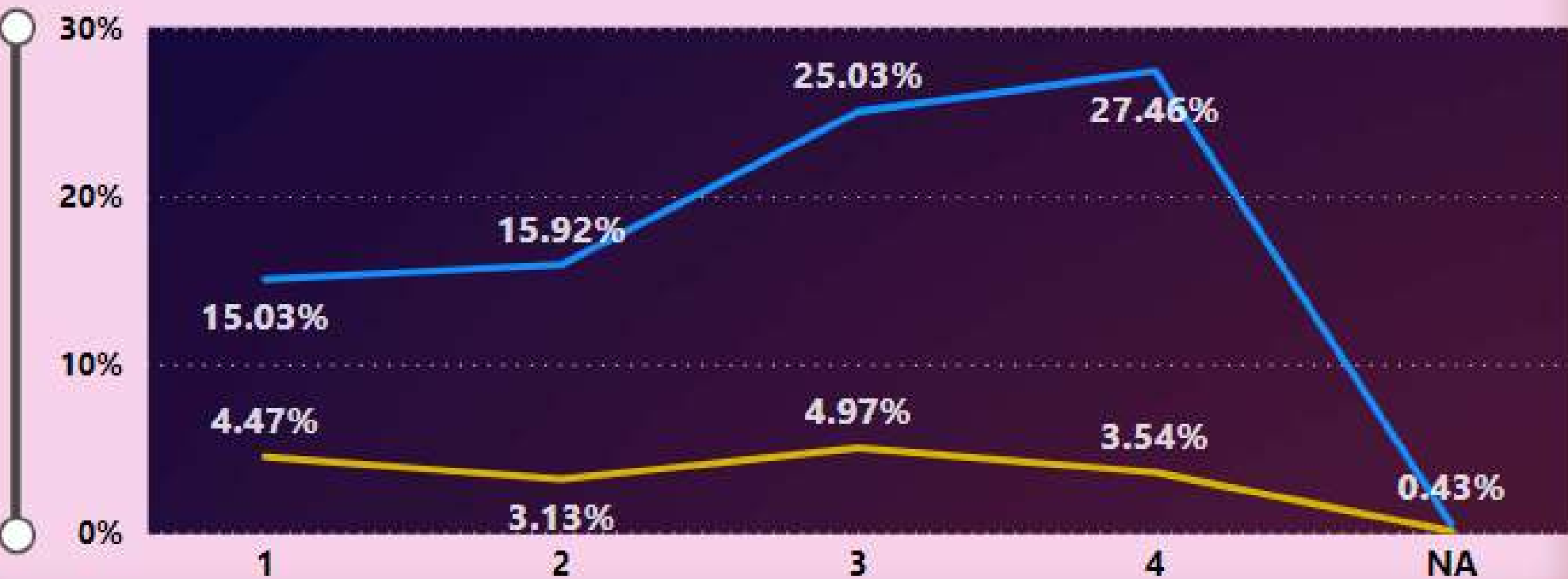
Count of Attrition by YearsAtCompany

Attrition ● No ● Yes



% Count Of attrition over Job satisfaction

Attrition ● No ● Yes



Presented by Ankit Gangwar

Thank you very much!



