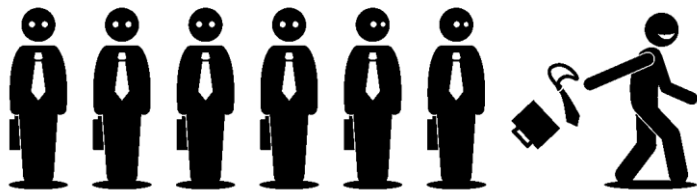


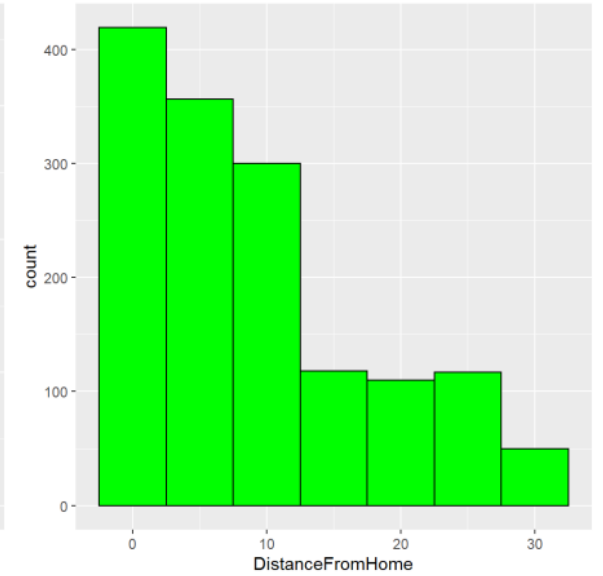
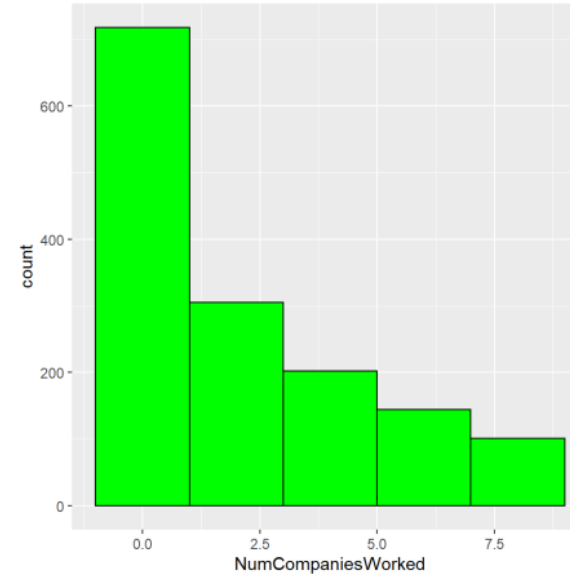
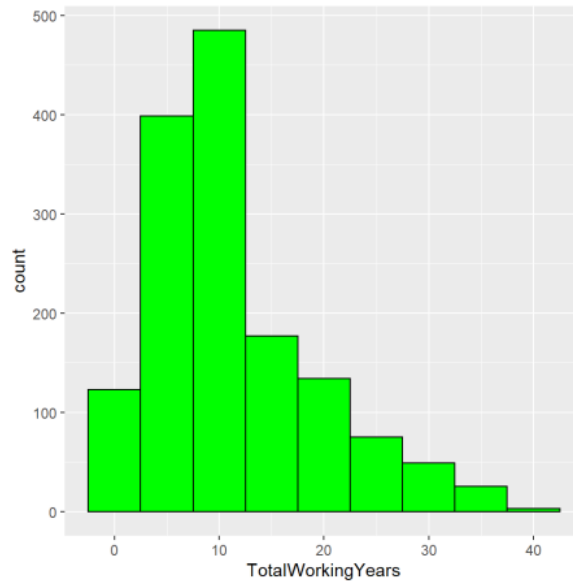
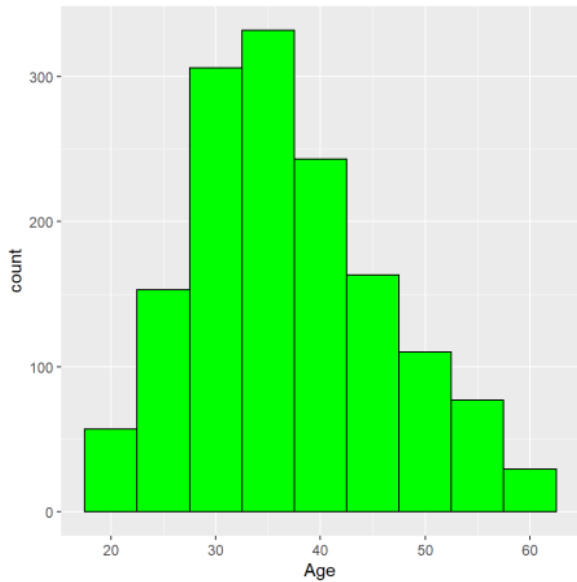


Miner League



Data Science for Talent Management for **DDSA**Analytics

Employee Demographics - Basic



Observations :

Average Age of employees is around **37** years and only **22%** of the employees are under the age of 30.

Average Years of experience is around **11** years with **49%** of the employees with less than 10 years of experience.

Most employees have worked in more than 1 companies with an average of around **2.7**.

As far as distance from home, most live relatively close as **within 10 miles** from the office.

Employee Demographics – Basic vs Attrition

Observations:

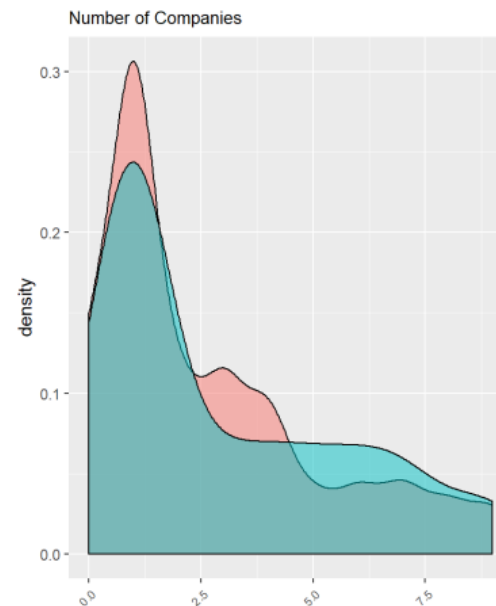
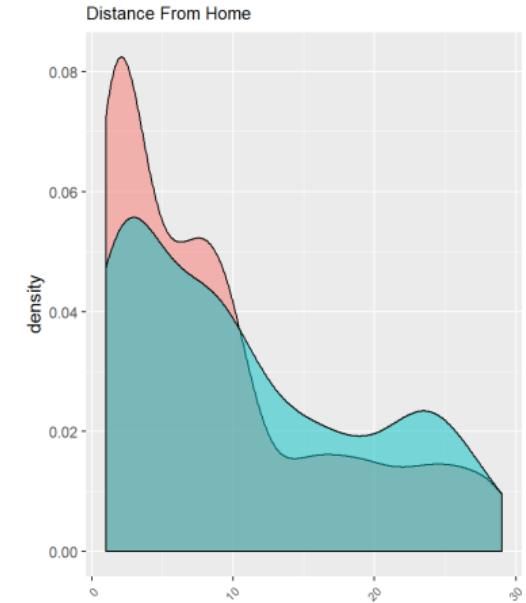
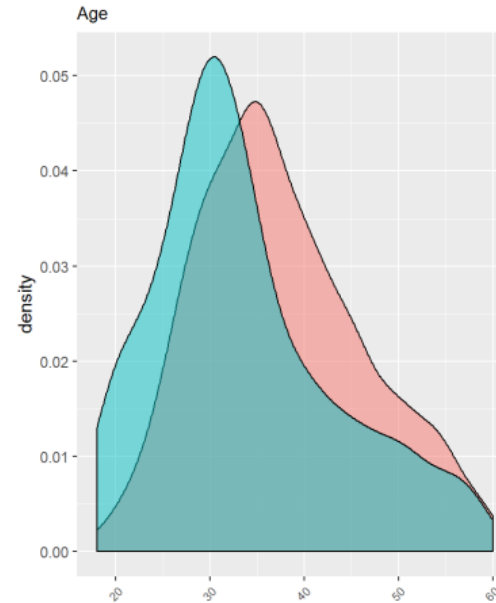
Younger employees between **25-35 years** have a higher attrition rate.

There is a higher attrition rate when the distance from home is **greater than 10**.

Attrition rate is less **below 10**.

Attrition rate seems to be higher for employees who have work with **5 to 7** companies.

The highest attrition rates seem to be with employees with between **0 to 7** years of work experience.



Employee Demographics - Work Environment

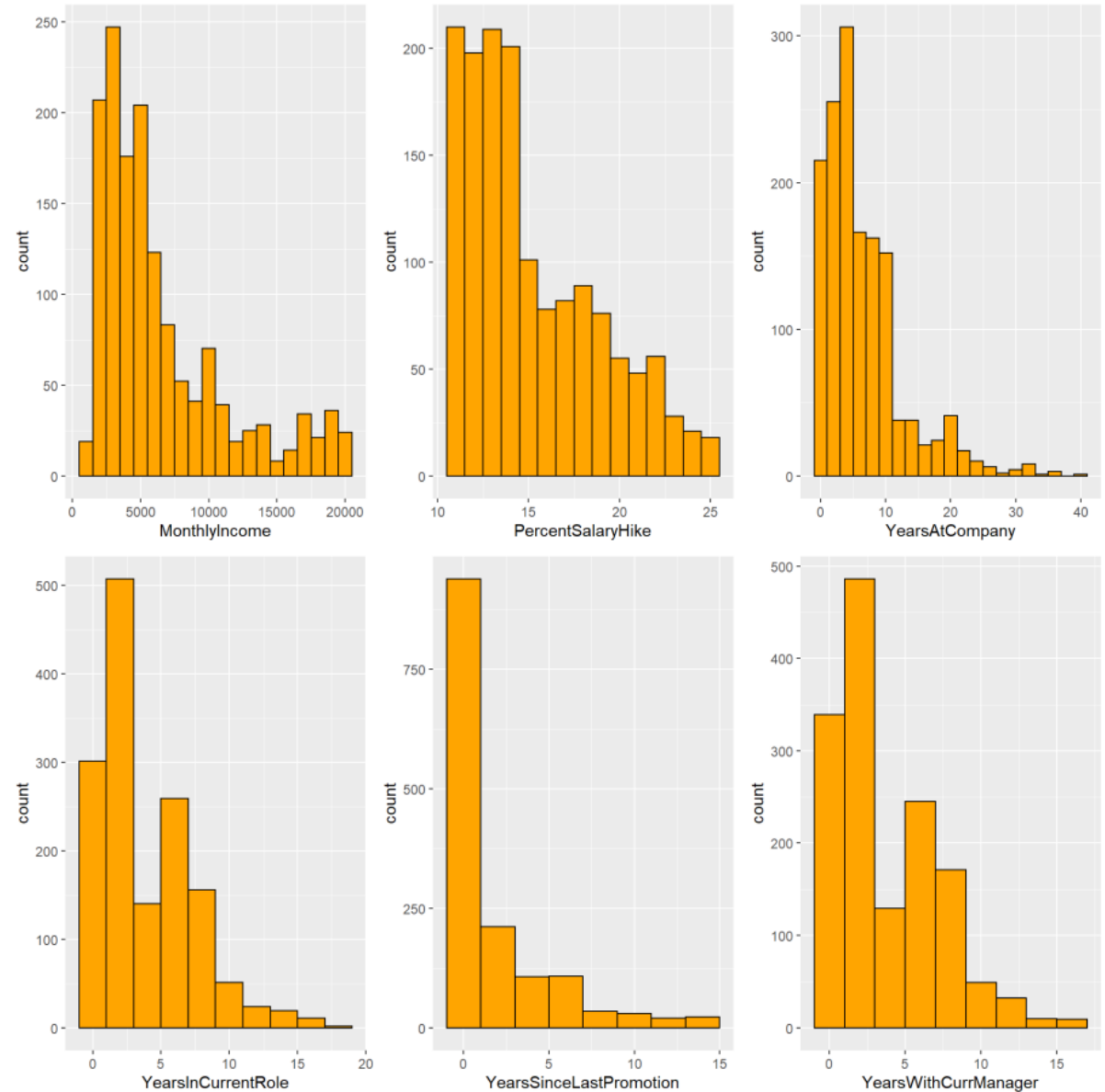
Observations:

Average monthly income is around 6.5k and majority of the employees make less than 6.5k.

Average employees has been with the company for about 7 years however majority of the employees are relatively new and have not been around for long.

Average employee at a role is around 4 years and then they either leave or move on to something else.

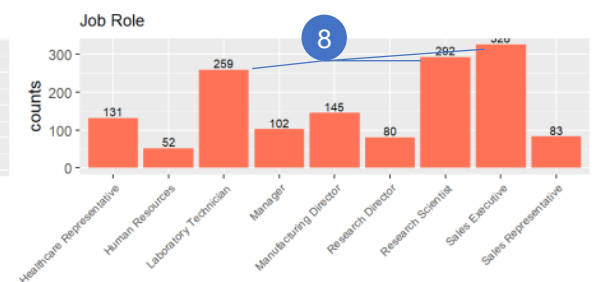
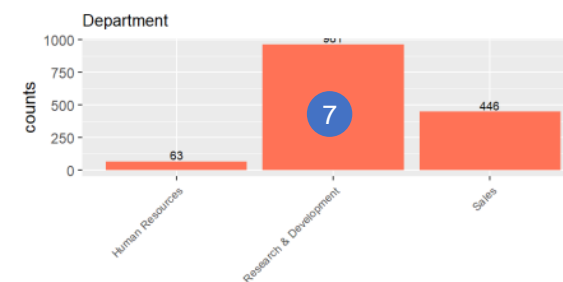
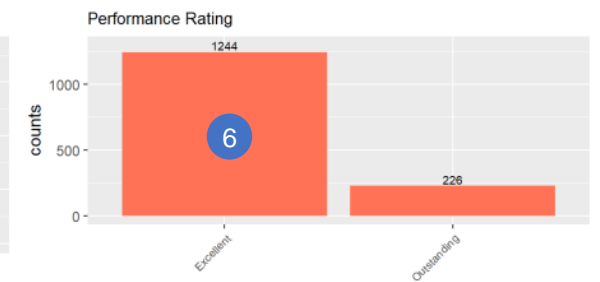
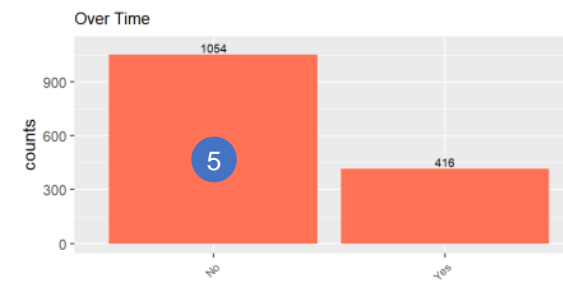
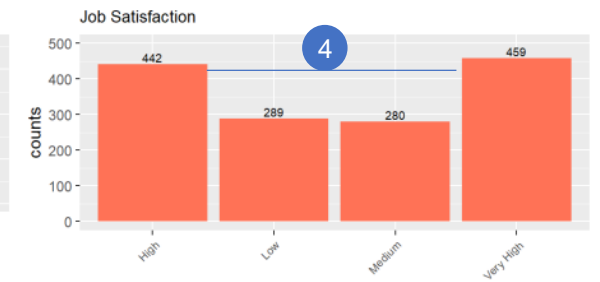
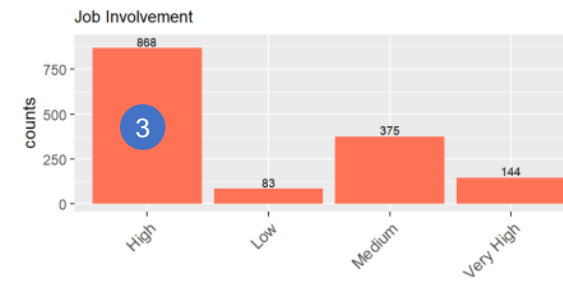
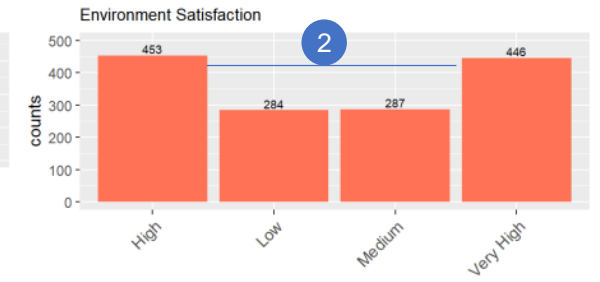
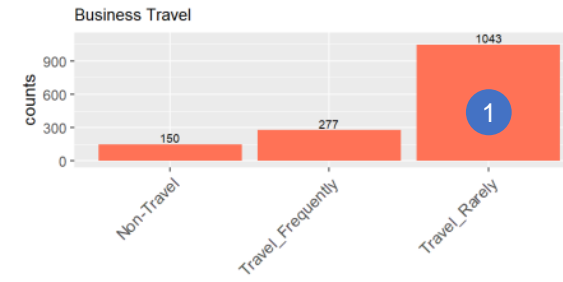
Promotions are frequent it seems, employees are getting promoted on average every 2 years.



Employee Demographics - Work Environment(Continued)

Observations:

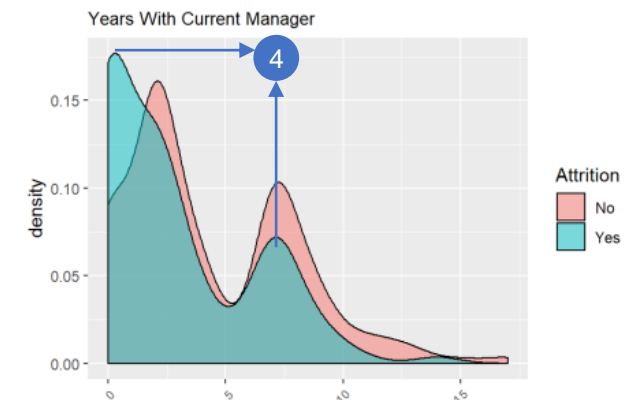
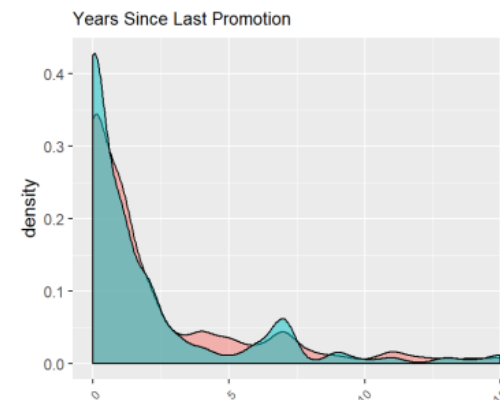
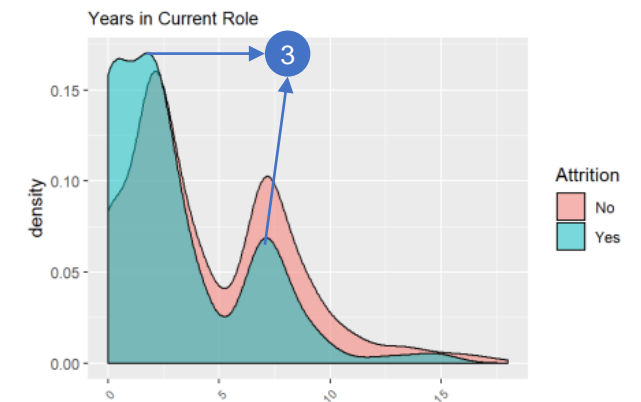
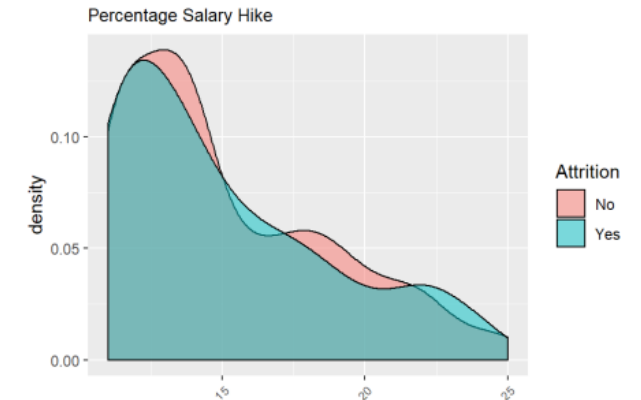
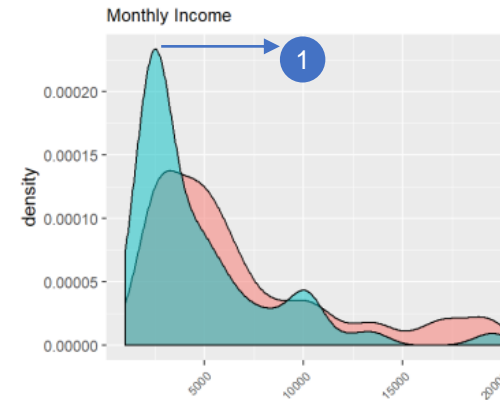
- 1 Approximately **71%** of the employees rarely travel for work.
- 2 Approximately **30%** of the employees rate environment satisfaction as high or very high.
- 3 Approximately **59%** of the employees rated their job involvement at work as high.
- 4 Approximately **30%** of the employees rate job satisfaction as high or very high.
- 5 Approximately **72%** of the employees do not work overtime.
- 6 Approximately **85%** of the employees have an Excellent Performance Rating.
- 7 More than half **65%** of the employees work in Research & Development.
- 8 Most employees work as Sales Executives, Research Scientists or Laboratory Technicians



Employee Demographics - Work Environment vs Attrition

Observations:

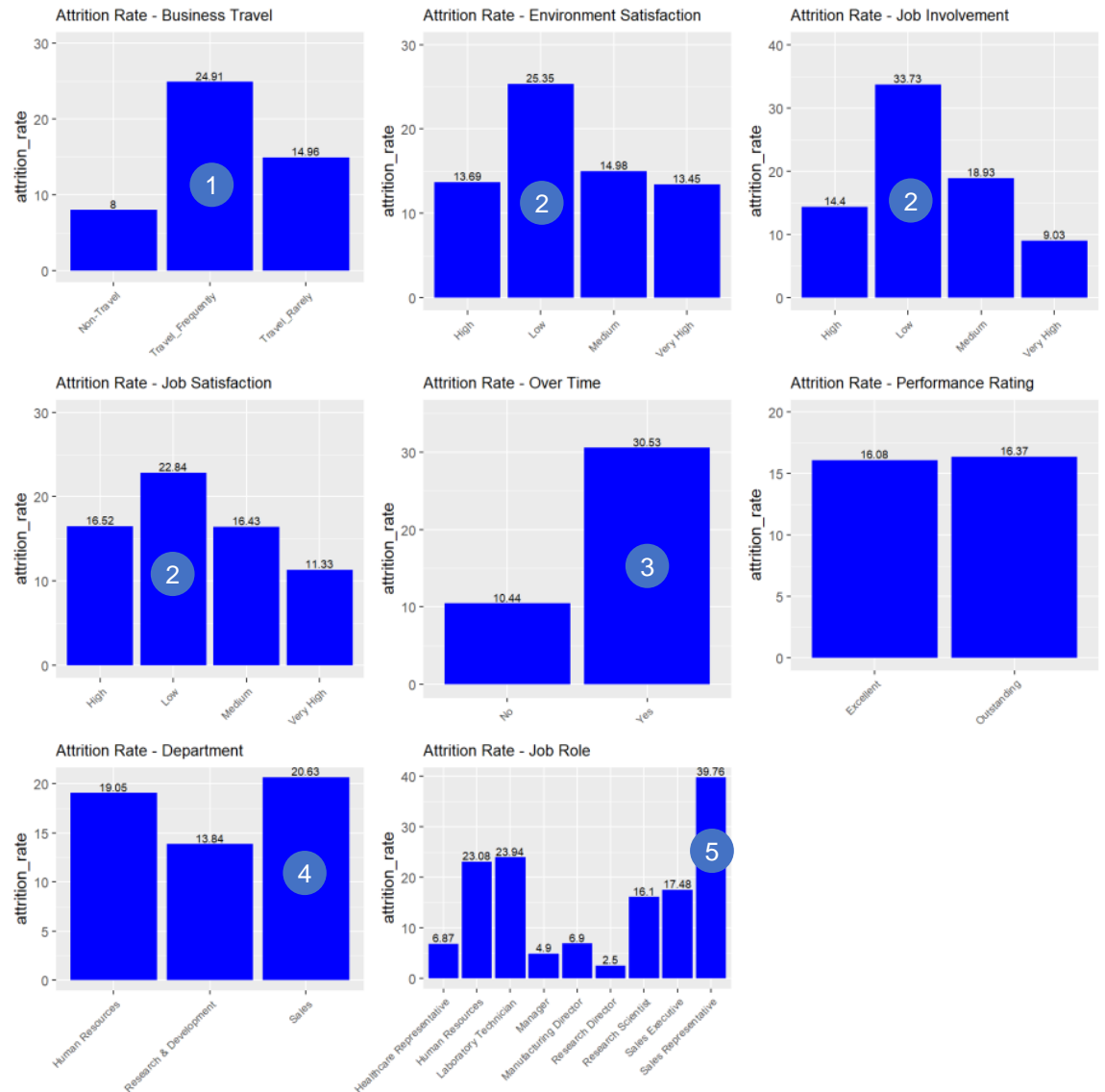
- 1 Peak attrition occurs when the monthly income rate is about \$2500.
- 2 Peak attrition rate also occurs when the employee is with the company for approximately 0-2 years.
- 3 Attrition rate is higher when the employee is in the same role for 0-2 years or 6 years approximately, based off of the bi-modal nature of the graph.
- 4 Attrition rate is higher when the employee is with the same manager for less than 1.5 years or 6 years approximately, based off of the bi-modal nature of the graph.



Employee Demographics - Work Environment vs Attrition (Continued)

Observations:

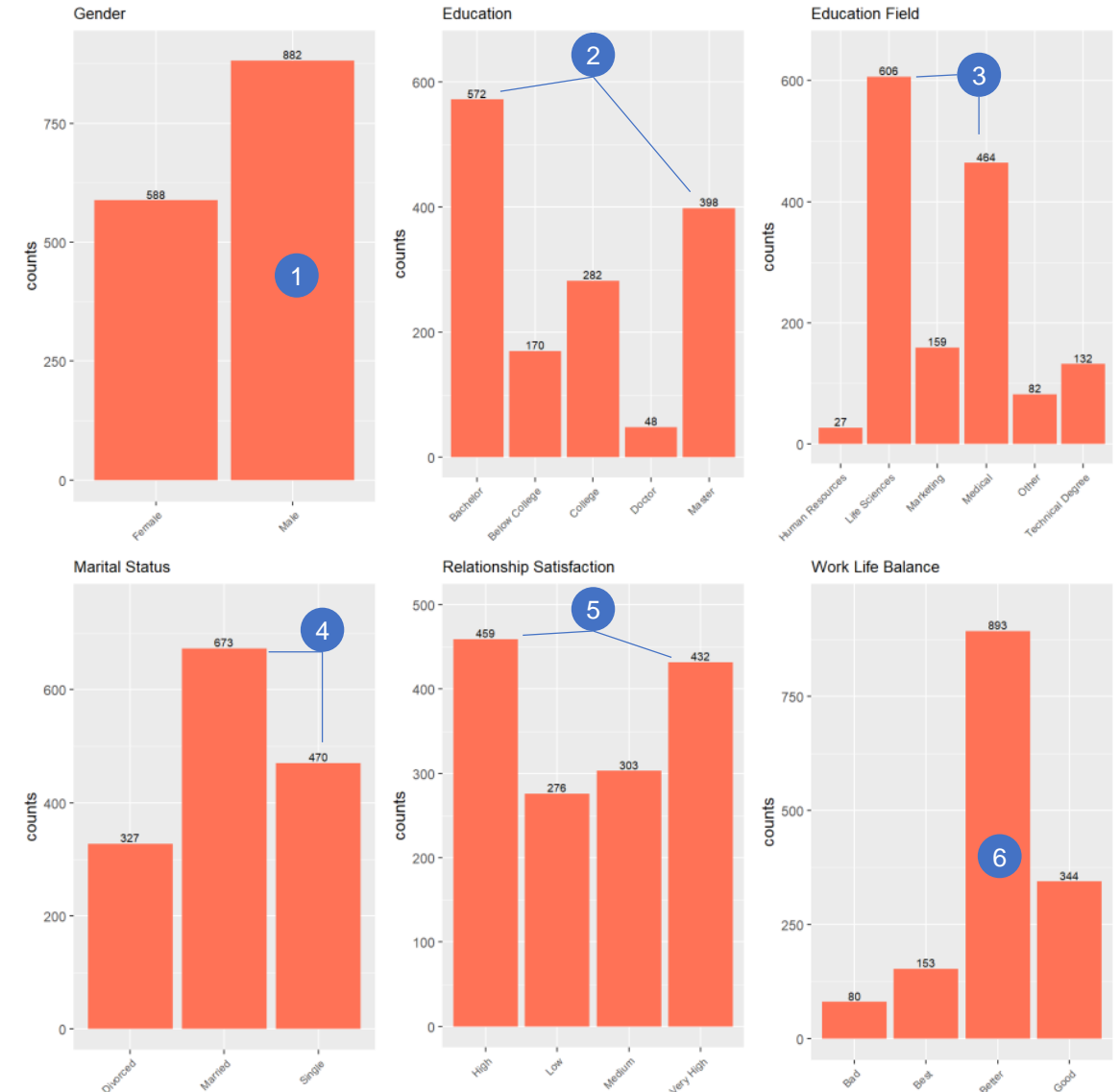
- 1 Employees who travel frequently have a higher attrition rate.
- 2 Employees who score environmental satisfaction, job involvement and job satisfaction low have higher attrition.
- 3 Employees who work overtime have a higher attrition rate (approximately 30%).
- 4 Employees in the Sales Department have the highest attrition rate at 20%.
- 5 Employees who are Sales Representatives have the highest attrition rate at 40%.



Employee Demographics - Personal

Observations:

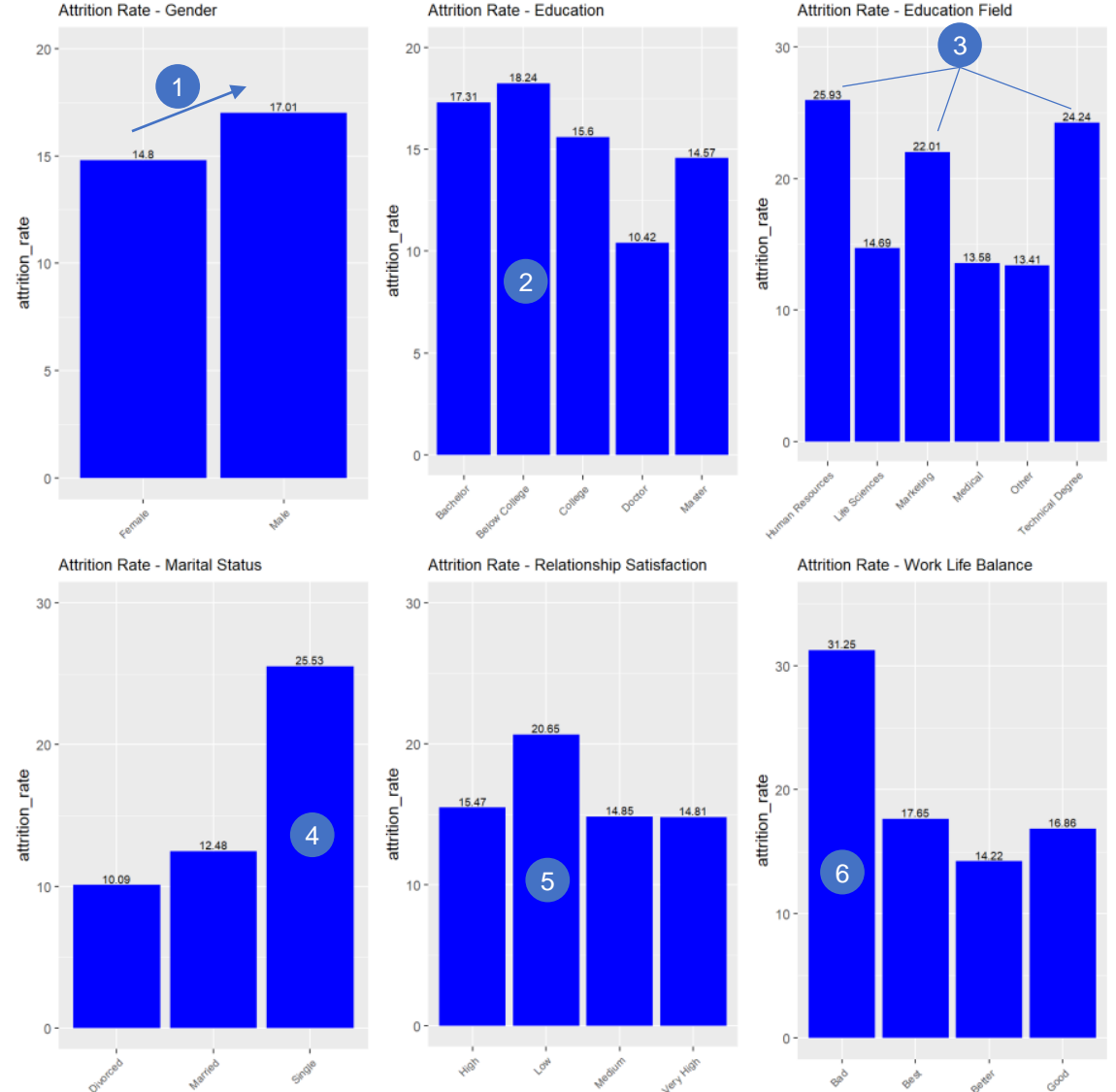
- 1 Approximately 60% of the employees are male.
- 2 Approximately 39% of the employees have a bachelors degree, with 27% having a masters degree.
- 3 Approximately 76% of the employees have a life science or medical degree.
- 4 Approximately 46% of the employees are married, with 32% being single.
- 5 More than 30% of the employees rate Relationship Satisfaction as High or Very High.
- 6 More than 60% of the employees rate Work Life Balance as Better.



Employee Demographics – Personal vs Attrition

Observations:

- 1 Male attrition rate is higher than female attrition rate.
- 2 Attrition rate is approximately 18% for employees with no college education.
- 3 Attrition rate is highest for those employees with backgrounds in HR, Marketing or a Technical Degree.
- 4 Attrition rate is highest for single employees.
- 5 Attrition rate is highest for employees with low relationship satisfaction.
- 6 Attrition rate is highest for employees with bad work life balance.



Correlation

Highly Correlated Observations:

YearsInCurrentRole and YearsAtCompany (0.76)

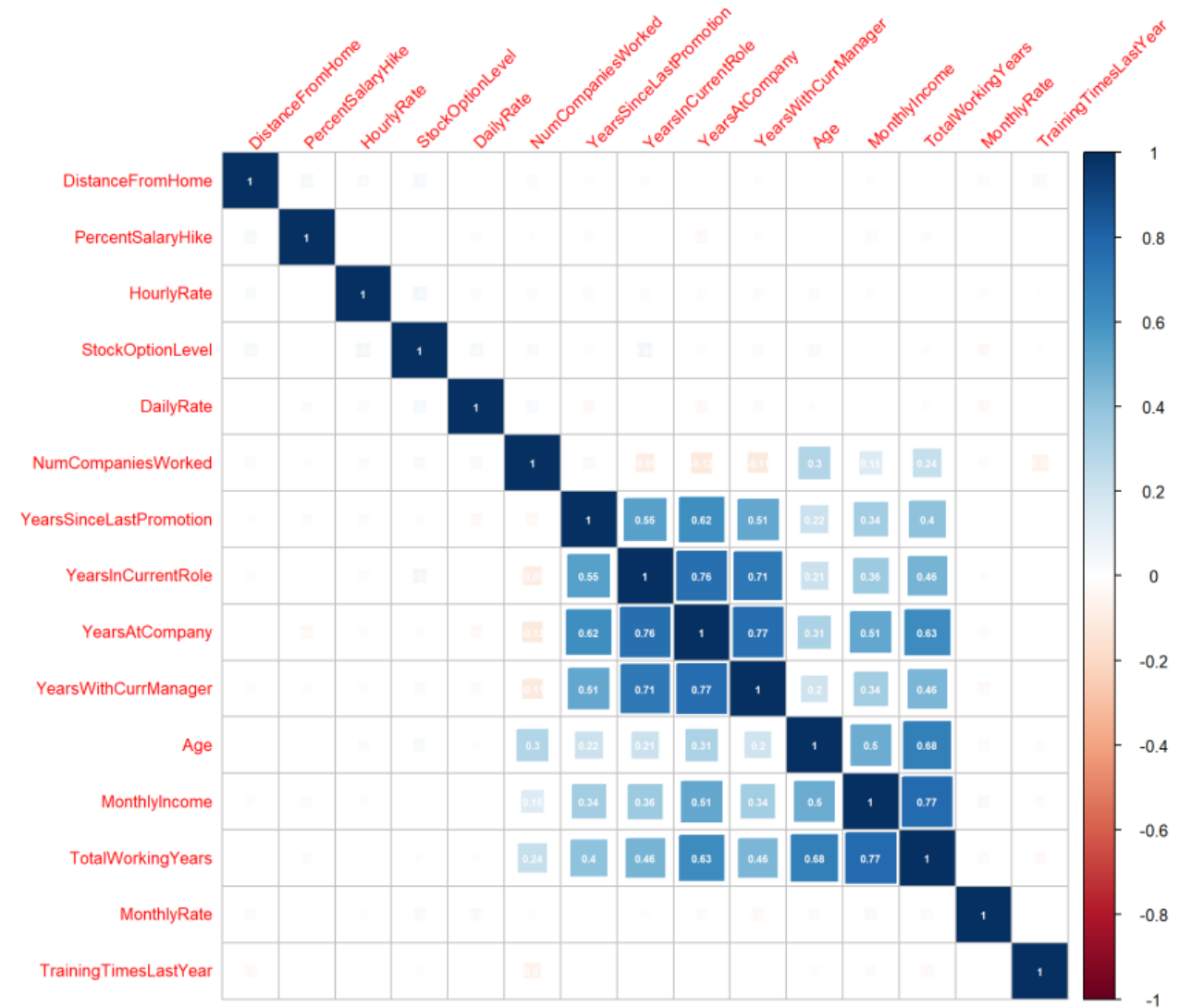
YearsInCurrentRole and YearsWithCurrManager (0.71)

YearsAtCompany and YearsInCurrentRole (0.76)

YearsAtCompany and YearsWithCurrManager (0.77)

YearsAtCompany and TotalWorkingYears (0.63)

MonthlyIncome and TotalWorkingYears (0.77)



Conclusion

From our analysis here at Miner League we can see that the following variables, broken down by type may have an influence on attrition:

Categorical

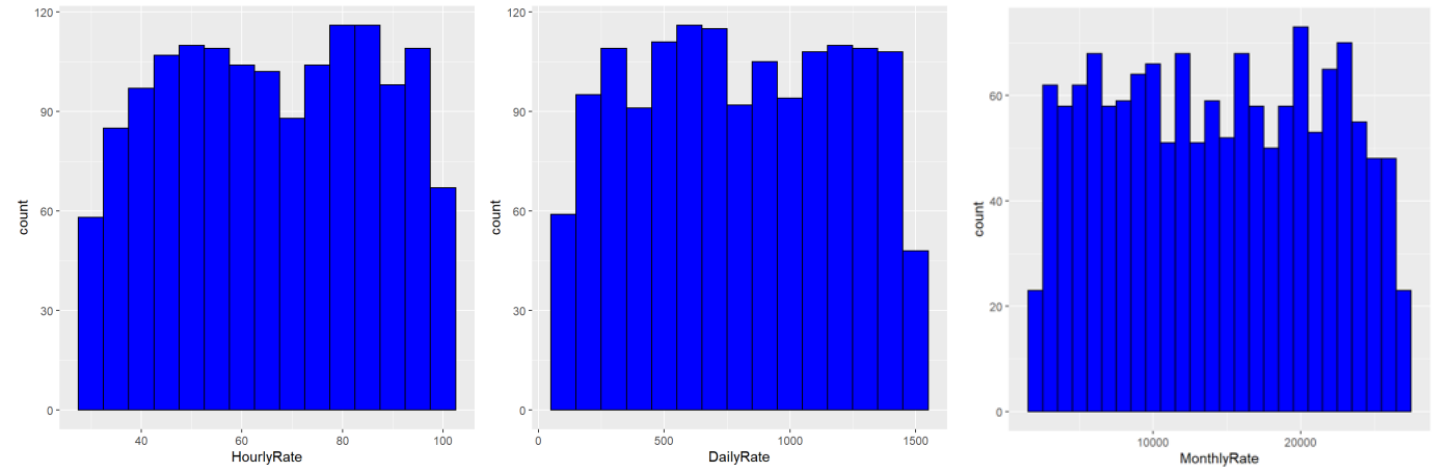
- Department
- Job Role
- Level of Education
- Amount of Travel
- Amount of Overtime
- Employees with low satisfaction scores in Job Satisfaction,
- Job Engagement and Environmental conditions may also need to be taken into account

Non-Categorical

- Years In Current Role
- Years At Company
- Years with Current Manager
- Total Working Years
- Monthly Income

- Appendix

Employee Demographics - Financial



Observations:

No patterns are observed in this data so we decided to put it in the appendix

