

# Introduction

Clean and prepare dataset for analysis and visualization. Answer the following questions and come up with a conclusion based on your findings.

## Pandas Questions

1. How would you calculate the median salary for employees who are still actively employed?
2. How can you filter the DataFrame to show employees who have been terminated and had a performance score of "Exceeds"?
3. How would you group the data by Department and GenderID to calculate the average engagement survey score for each combination?
4. How can you find the most common recruitment source for terminated employees?
5. How would you sort the DataFrame by the number of absences, and then by the number of days late in the last 30 days, both in descending order?
6. How can you identify and drop any rows where the PerformanceScore is missing, and then calculate the average performance score for the remaining data?
7. How would you create a new column that calculates each employee's tenure in years and then find the average tenure for each department?
8. How can you find the top 5 employees with the highest special projects count who have also been terminated for cause, and display their relevant details?

## Seaborn Questions

1. What is the distribution of employee salaries?
2. How does employee satisfaction vary across different departments?
3. What is the gender distribution across various job positions?
4. How does performance score correlate with engagement survey results?
5. Is there a relationship between tenure (length of employment) and salary?
6. What is the distribution of employees across different recruitment sources?
7. How does employee absenteeism vary by department?
8. What is the average age of employees in different job roles or departments?
9. How does employee turnover (termination) vary by department?
10. What is the distribution of special projects count among employees?