

Case 8: Evaluating Job Satisfaction in a Tech Company

A tech company surveys its employees to understand the factors that influence job satisfaction (measured on a scale of 0 to 100). The company collects data from 200 randomly sampled employees on several variables: annual salary (in thousands of dollars), years of experience, and employee ranks: Junior, Intermediate, Senior, and Lead. How do these factors, especially employee ranks, affect job satisfaction? ([download data](#))

Initial Questions

1. What are the research objectives?
2. What are the statistical questions?
3. What is the response variable, and what is the data type of the response variable?
4. What are the explanatory variables of interest?
5. Are there covariates?
6. What is the population of interest?
7. What is the subject, and what is the number of distinct subjects?
8. Are there subject-level data?
9. Are response variables dependent (repeated measures / clustered subjects)?
10. Are the subjects selected randomly?
11. Are the subjects randomly assigned to different groups?

Initial Thoughts