

MGT 9050
PROJECT 4

COMPUTING AND INTERPRETING CORRELATIONS

Use the HR Data File to answer the following questions.

1. Report the full covariance and correlation matrix for the following variables:
GenderID, PerfScoreID, Salary, Age, EngagementSurvey, EmpSatisfaction, and Absences.
2. Visualize the correlations you have computed. There are a few different ways to do this (including scatterplots, heat maps, etc.). Use the visualization method that you think best conveys the relations.
3. Provide a summary of what you see in these results. Explain the nature of the bivariate relations (or lack thereof) in these data. Write this summary like you might see reported in a journal article.

Create a subset of the data in which you only include employees who are from the Production *Department*. Also, create a subset of everyone NOT in Production.

4. Run correlations separately for each of these two subsamples. Report the results for each and provide an interpretation of what you see as you did in Questions 2 and 3. Are the correlations the same across the subsamples and/or from the entire sample? I'm not asking for a test of statistical significance, but your own interpretation based on the values you compute.