MGT 9050
PROJECT 6

MULTIPLE REGRESSION

1. Run a multiple regression analysis in which you predict *PerfScoreID* from *EmpSatisfaction, EngagementSurvey,* and *Tenure*. Provide a summary of this analysis like what you would find in a journal article. Be sure to provide a table of results AND a written summary of the results in your response.

    a. What is the significance of the regression weights for each predictor and are they statistically significant?
    b. What is the regression equation for the most efficient model?
    c. What percentage of variance in *PerfScoreID* is explained by the model?

2. Repeat the analysis you ran in Question 1 in which you predict *PerfScoreID* from *EmpSatisfaction, EngagementSurvey,* and *Tenure* but first control for *Department*. Provide a summary of this analysis like what you would find in a journal article. Be sure to provide a table of results AND a written summary of the results in your response.

    a. How much variance did *Department* explain as a covariate in Step 1 of your Model?
    b. What is the change in R-square when you go from Step 1 to Step 2?
    c. What percentage of variance in *PerfScoreID* is explained by the Full model?

3. Run a multiple regression analysis in which you predict *Absences* from *EmpSatisfaction, EngagementSurvey,* and *Tenure*. Provide a summary of this analysis like what you would find in a journal article. Be sure to provide a table of results AND a written summary of the results in your response.

    a. What is the significance of the regression weights for each predictor and are they statistically significant?
    b. What is the regression equation for the most efficient model?
    c. What percentage of variance in *Absences* is explained by the model?

4. Repeat the analysis you ran in Question 3 in which you predict *Absences* from *EmpSatisfaction, EngagementSurvey,* and *Tenure* but first control for *Sex*. Provide a summary of this analysis like what you would find in a journal article. Be sure to provide a table of results AND a written summary of the results in your response.

    a. How much variance did *Sex* explain as a covariate in Step 1 of your Model?

b. What is the change in R-square when you go from Step 1 to Step 2?
c. What percentage of variance in *Absences* is explained by the Full model?