

FDSAI

ANOVA.

The dataset `gradesANOVA.xls` consists of students' exam scores for Linear Algebra. You are required to conduct one-way ANOVA to determine whether there is an impact of the group on students' mean score. Observe that some values are missing (indicating the student's absence at the exam), in which case you will remove them.

1. Make parallel boxplots of students' scores for each of the 5 groups. Comment on the results.
2. Conduct the one-way ANOVA; determine the Fisher statistics and assess whether the group to which each student belongs makes a difference in the mean score.
3. Besides, group, each student is classified also according to gender (0=male, 1=female). Perform the two-way ANOVA to assess effects and interaction of these two factors (group/gender) of students' scores.