Chapter 15 – Exercise 1

Complete a one-way ANOVA on the Self-Confidence Scale scores, with age group as the independent variable (CPS50.sav-SCS and Age). If statistical significance was attained, perform a Tukey method HSD test to determine which group means are significantly different.

Step 1. Start
   a. Open SPSS. Open data set cps50.sav.

Step 2. Run Tukey and Newman-Keuls Post Hoc Test
In ANOVA run, we find out the differences are significant. To determine where the differences locate, we need to run Tukey and Newman-Keuls Post Hoc Test.
   a. From the SPSS menu bar, click on Analyze – Compare Mean – One-Way ANOVA. You will see the “One-Way ANOVA” dialogue box as shown in Figure B7-(a).
   b. Move the dependent variable Self-Confidence Scale to the “Dependent List” box.
   c. We want to compare the Self-Confidence Scale scores by students’ age group. So, move the variable Age into the “Factor” box.
   d. Click on the PostHoc button, you will see the “One Way ANOVA: Post Hoc Multiple Comparisons” dialogue as in Figure -(b). Check Tukey for Tukey test, and check S-N-K for Student-Newman-Keuls test. Click Continue.
   e. Now, you are back to the ANOVA dialogue. Click on OK. You will have the results for the One-Way ANOVA, and the Tukey and Newman-Keuls Post Hoc tests.

Exercise 2 and 3 should follow the same procedures.