The *R* Workshop

*Applying the Integrated Suite of Software Facilities for Statistical Computing and Graphics*

Exercises for *R* Workshop ~ Day 2

Now that information for all 10 training modules has been reviewed, the following exercises are designed to help you apply material and determine if and where specific questions or problems arise. Be sure to ask questions as we progress through this exercise.

[1] Find the built-in dataset named 'cars' and load it on your workspace.

[2] Print the dataset on your console.

[3] Execute some exploratory data analyses on the dataset.

[4] Define a new binary variable for speed in the following way.

speed < 25 ---> speed.b = low

speed >= 25 ---> speed.b = high

[5] Define a new variable (factor) for speed in the following way.

speed < 15 ---> speed.l = low

15 <= speed < 20 ---> speed.l = mid

20 <= speed ---> speed.l = high

[6] Define a new variable (factor) for dist in the following way.

dist < 20 ---> dist.l = low

20 <= dist < 40 ---> dist.l = mid

40 <= dist < 60 ---> dist.l = high

60 <= dist ---> dist.l = xhigh

[7] t-test: speed.b vs. dist

[8] One-way ANOVA: speed.l vs. dist

[9] Contingency table: speed.1 vs dist.l

[10] Regression analysis: speed vs. dist