SESRI Workshop May 2016

Activity #4 "Statistical Relationships"

This final activity asks participants to conduct and evaluate statistical tests of the hypothesis that a specific policy intervention – converting Doha's traffic circles to signal lights – changed Qatari's perceptions of the causes of traffic accidents. This activity utilizes SESRI_Omnibus_2011_2014_combined_excerpt.dta. Students will be asked to formulate, estimate and compare several alternative statistical models.

- 1. Launch Stata
- Create a log file log using <filename.log> or use drop-down menu
- 3. Open SESRI_Ominbus_2011_2014_combined_excerpt4.dta **use <filename>** or use drop-down menu
- 4. Open Data Browser
- 5. Inspect the data
- 6. Close Data Browser
- 7. Compute descriptive (one-way) statistics for drivers_comit
 - a. Tabulate the values for drivers_comit (weighted and unweighted)
 tab <varname>
 tab <varname> [aweight=wgt]
 - b. Calculate summary statistics (weighted and unweighted) for *drivers_comit* sum <varname> sum <varname> [aweight=wgt]
- 8. Explore the relationship between *drivers_comit* and *year* tab <varname1> <varname2> [aweight=wgt]

corr <varname1> <varname2> [aweight=wgt]

ttest <varname1>, by(<varname2>)

reg <varname1> < varname2>

reg <varname1> <varname2> [aweight=wgt]

- Estimate a multivariate regression model (regress *drivers_comit* on *year*) controlling for household type (*household*) reg <varname1> <varname2> <varname3> [aweight=wgt]
- 10. Estimate a multivariate logit model (logit change_behav year) controlling for household
 type (household)
 logit <varname1> <varname2> <varname3>