```
import excel "C:\[redacted]\Downloads\Honours Thesis\Stata data\Stata- Merged CUTA and  Census.xlsx"
, sheet("(dropped BC)Merged  ") firstrow clear

*Define rural dummy
gen rural = totalpop
replace rural = 1 if !missing(totalpop) & !missing(popul_density) & (popul_density < 400)
replace rural = 1 if !missing(totalpop) & totalpop < 30000
replace rural = 1 if !missing(totalpop) & (totalpop < 30000)
replace rural = 0 if !missing(totalpop) & (popul_density >= 400) & (totalpop >= 30000)
replace rural = 0 if !missing(popul_density) & popul_density >= 400


*generate year dummy
tab year, gen(yeardummy)


*Generate dependent variable for each model
gen ridershippercap = ridership/totalpop
gen costpertrip = totadiroper_exp/ridership
gen subsidypertrip = (totadiroper_exp-totaoper_rev)/ ridership


*Calculate percentage of IVs
gen rentpct = (renter)/ (renter + owber)
gen pctpostcert = (post_cert/tota_educ_highest)*100
gen pctnocert = (no_cert/tota_educ_highest)*100
gen pctsecondcert = (seco_high/tota_educ_highest)*100
gen totalage = _14years + _64years + over65years
gen pct15_64years = (_64years/totalage)*100
gen pctover65years = (over65years/totalage)*100
gen pct_driv_cartruck = (driver_car_truck/tota_commute_mode)*100
gen pct_pass_cartruck = (pass_car_truck/tota_commute_mode)*100
gen pct_walk = (walk/tota_commute_mode)*100
gen pct_bike = (bicycle/tota_commute_mode)*100
gen pct_othermethod = (other_method/tota_commute_mode)*100
gen pct_eng_only = (engl_only/tota_knowledge)*100
gen pct_fren_only = (fren_only/tota_knowledge)*100
gen pct_eng_fre = (eng_fre/tota_knowledge)*100
gen pct_not_engfre = (not_engfre/tota_knowledge)*100


*Convert IVs into log form (to be interpreted in relative form)
gen lnridershippercap = ln(ridershippercap)
gen lnaver_ownrent = ln(aver_ownrent)
gen lnaver_tenrent = ln(aver_tenrent)
gen lntotalpop = ln(totalpop)
gen lnaver_hholdsize = ln(aver_hholdsize)
gen lncostpertrip =ln(costpertrip)
gen lnsubsidypertrip = ln(subsidypertrip)
gen lnaver_inc_hhold = ln(aver_inc_hhold )
gen lnprivdwe_occupied = ln(privdwe_occupied)
gen lnpopul_density = ln(popul_density)
gen lnlandarea = ln(landarea)
gen lnaver_rooms= ln(aver_rooms)
gen lnmed_ownrent = ln(med_ownrent)
gen lnmedi_dwelvalue = ln(medi_dwelvalue)
gen lnaver_dwelvalue = ln(aver_dwelvalue)
gen lnmedi_tenrent = ln(medi_tenrent)
gen lnaver_famsize = ln(aver_famsize)
```

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63  *To get Decsriptive Statistics and the Five Number Summary (*STATA's command \summarize\ doesn't
    include median)
64  *Use STATA's command \univar\ --> need to install univar fist, type: findit univar ---> choose sg67_1
65  univar totalpop pct15_64years pctover65years pctpostcert empl_rate aver_inc_hhold aver_ownrent
    ten_rentmore30per aver_tenrent pct_driv_cartruck pct_pass_cartruck pct_walk yeardummy1 yeardummy2
    yeardummy3 rural
66
67
68  *Regreesions
69
70  *Model I #9
71  regress lnridershippercap lnaver_inc_hhold lntotalpop empl_rate rural yeardummy1 yeardummy2
    yeardummy3 pct15_64years pctover65years pctpostcert lnaver_ownrent ten_rentmore30per lnaver_tenrent
    pct_driv_cartruck pct_pass_cartruck pct_walk
72
73  *Model II #9 (without ridership)
74  regress lncostpertrip lntotalpop pct15_64years pctover65years pctpostcert empl_rate lnaver_inc_hhold
    lnaver_ownrent ten_rentmore30per lnaver_tenrent pct_driv_cartruck pct_pass_cartruck pct_walk
    yeardummy1 yeardummy2 yeardummy3 rural
75
76  *Model II #9 (with ridership)
77  regress lncostpertrip lntotalpop pct15_64years pctover65years pctpostcert empl_rate lnaver_inc_hhold
    lnaver_ownrent ten_rentmore30per lnaver_tenrent pct_driv_cartruck pct_pass_cartruck pct_walk
    yeardummy1 yeardummy2 yeardummy3 rural lnridership
78
79
80  *Model III #9 (without ridership)
81  regress lnsubsidypertrip lntotalpop pct15_64years pctover65years pctpostcert empl_rate
    lnaver_inc_hhold lnaver_ownrent ten_rentmore30per lnaver_tenrent pct_driv_cartruck pct_pass_cartruck
    pct_walk yeardummy1 yeardummy2 yeardummy3 rural
82
83  *Model III #9 (with ridership)
84  regress lnsubsidypertrip lntotalpop pct15_64years pctover65years pctpostcert empl_rate
    lnaver_inc_hhold lnaver_ownrent ten_rentmore30per lnaver_tenrent pct_driv_cartruck pct_pass_cartruck
    pct_walk yeardummy1 yeardummy2 yeardummy3 rural lnridership
85
86
87
```