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**************************************************
*Supporting teachers in 6 Southeast countries*
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*Outputs generated with REPEST Stata module
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*Avvisati, F. and Keslair, F. (2014). REPEST: Stata module to run estimations with
weighted*
*replicate samples and plausible values. Statistical Software Components S457918,
Boston *
*College Department of Economics.
*
************************************************************************************
********
ssc install repest, replace

*****************************************
*Database preparation sampled class only*
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use "C:\SEA-PLM_Regional_Teachers.dta" ,clear

*** computation of new updated international school ID

gen c2=substr( TchID ,4,5)
encode cnt, gen(cnt1)
egen c3 = concat(cnt1 c2)
sort c3

bysort cnt : tab TchClass

* all teachers in LAO are reporting missing TchClass, observation are recoded as teachers from G5
sampled class as teachers numbers equal to number of schools

destring TchClass, replace force
replace TchClass=1 if cnt=="LAO"

keep if TchClass==1

*** creation of school level database for compilation of G5 teacher roles from G5 classrooms of the
sampled school

destring TC06Q01, replace force
tab TC06Q01, gen(t)
foreach v of varlist t1-t7 {
bysort c3 `v' : egen _`v'= sum (`v')
 }
```

```
*** computation of number of teachers by new school ID, by country

bysort c3: generate i = _N
count
save "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta" ,replace

**********************************************************
*Area A - Teachers’ demographics, training and skills*
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* Example of some Stata command

* Gender, age, exp

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

destring TC02Q01 TC05Q01 TC03Q01, replace force

repest SVY, estimate (means T_GENDER) outfile (gender) by(cnt) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

gen age=.
replace age=1 if TC02Q01<3
replace age=0 if TC02Q01>=3

repest SVY, estimate (means age) outfile (age) by(cnt)svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

gen exp=.
replace exp=0 if TC05Q01>=4
replace exp=1 if TC05Q01<4

repest SVY, estimate (means exp) by(cnt) outfile (exp) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

export excel using teach.xls, first(var)

* academic training

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

destring TC03Q01, replace force
replace TC03Q01=. if TC03Q01>6

* below ISCED 3 and ISCED 2 and below are merged
replace TC03Q01=5 if TC03Q01==6
```

```
repest SVY, estimate (freq TC03Q01) outfile (acad) by(cnt) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

export excel using acad.xls, first(var)


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*Area B - Teachers’ working condition *
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* low performers

use "C:\SEA-PLM_Regional_Students.dta", replace

drop prop
bysort cnt idschool : gen prop = _N

drop q* avq

bysort cnt:egen q = xtile(pv1read), n(4)
tab q, gen(q)

bysort cnt idschool : egen avq=total(q1)
gen x=.
bysort cnt idschool: replace x=(avq/prop)*100
tab x

gen qlearn=.
replace qlearn=4 if x>=75
replace qlearn=3 if x<75 & x>50
replace qlearn=2 if x>=10 & x<=50
replace qlearn=1 if x<10

tab qlearn

repest SVY, estimate (freq qlearn) by(cnt) outfile (lowperfsch) svyparms([NBpv(5)
final_weight_name(WT2019) rep_weight_name(rwgt) variancefactor(StIDSch) NREP(95)])

*** language at home

use "C:\SEA-PLM_Regional_Students.dta", replace

drop prop
drop avlang
bysort cnt idschool : gen prop = _N

bysort cnt SchID : egen avlang=total(S_LANG)
gen p=.
```

```
bysort cnt SchID: replace p = (avlang /prop)*100

* classification and estimates of children ratio by 3 categories, sup 90% 3, btw 40% abd 90% 2, lower
40%

gen e=.
replace e=2 if p>90
replace e=1 if p>=40 & p<=90
replace e=0 if p<40
repest SVY, estimate(freq e) outfile (lan) by(cnt) svyparms([NBpv(5) final_weight_name(WT2019)
rep_weight_name(rwgt) variancefactor(StIDSch) NREP(95)])

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*Area C - Teachers’ specialization and allocation    *
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* teachers role

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

repest SVY, estimate (freq TC06Q01) by(cnt) outfile (teachrole) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

* teaching language(s)

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

gen tea=. if _t1==0 & _t2==0 & _t3==0 & _t4==0 & _t5==0
* tea=. means that TC06Q01==. meaning no information available
replace tea=1 if _t1==0 & _t3==0 & (_t2==1 | _t4==1 | _t5==1)
replace tea=2 if _t1==1 | _t3==1
replace tea=3 if _t1>1 | _t3>1 | (_t2>1 | _t4>1 | _t5>1)

repest SVY, estimate (freq tea) by(cnt) outfile (tear) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

* teaching mathematics

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

gen tea=. if _t1==0 & _t2==0 & _t3==0 & _t4==0 & _t5==0
replace tea=1 if _t1==0 & _t2==0 & (_t3==1 | _t4==1 | _t5==1)
replace tea=2 if _t1==1 | _t2==1
replace tea=3 if _t1>1 | _t2>1 | (_t3>1 | _t4>1 | _t5>1)

repest SVY, estimate (freq tea) by(cnt) outfile (team) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
```

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*Area D - Reading and mathematics teachers’ training and instructional practices*
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* Teachers training and practice in sampled classroom

** reading teaching practice for teachers in charge of language of instruction only

use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

destring TC18Q01, replace force
keep if TC18Q01==1

destring TC19Q*, replace force
foreach v of varlist TC19Q01-TC19Q05 {
replace `v'=. if `v'>4
 }

foreach v of varlist TC19Q01-TC19Q05 {
replace `v'=0 if `v'==1 | `v'==2
 }

foreach v of varlist TC19Q01-TC19Q05 {
replace `v'=1 if `v'==3 | `v'==4
 }

destring TC21Q*, replace force
foreach v of varlist TC21Q01-TC21Q08 {
replace `v'=. if `v'>4
 }

foreach v of varlist TC21Q01-TC21Q08 {
replace `v'=0 if `v'==1 | `v'==2
 }

foreach v of varlist TC21Q01-TC21Q08 {
replace `v'=1 if `v'==3 | `v'==4
 }

repest SVY, estimate (freq TC19Q01) by(cnt) outfile (p1) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC19Q02) by(cnt) outfile (p2) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC19Q03) by(cnt) outfile (p3) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC19Q04) by(cnt) outfile (p4) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
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repest SVY, estimate (freq TC19Q05) by(cnt) outfile (p5) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

repest SVY, estimate (freq TC21Q01) by(cnt) outfile (p6) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q02) by(cnt) outfile (p7) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q03) by(cnt) outfile (p8) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q04) by(cnt) outfile (p9) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q05) by(cnt) outfile (p10) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q06) by(cnt) outfile (p11) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q07) by(cnt) outfile (p12) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC21Q08) by(cnt) outfile (p13) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])

** mathematics teaching practice for teachers in charge of mathematics only

use "C:\use "C:\SEA-PLM_Regional_Teachers_allteachers_g5samplclass.dta", clear

destring TC23Q01, replace force
keep if TC23Q01==1

destring TC24Q*, replace force

foreach v of varlist TC24Q01-TC24Q10 {
replace `v'=. if `v'>4
 }

foreach v of varlist TC24Q01-TC24Q10 {
replace `v'=0 if `v'==1 | `v'==2
 }

foreach v of varlist TC24Q01-TC24Q10 {
replace `v'=1 if `v'==3 | `v'==4
 }

repest SVY, estimate (freq TC24Q01) by(cnt) outfile (m1) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q02) by(cnt) outfile (m2) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q03) by(cnt) outfile (m3) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
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```
repest SVY, estimate (freq TC24Q04) by(cnt) outfile (m4) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q05) by(cnt) outfile (m5) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q06) by(cnt) outfile (m6) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q07) by(cnt) outfile (m7) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q08) by(cnt) outfile (m8) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q09) by(cnt) outfile (m9) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
repest SVY, estimate (freq TC24Q10) by(cnt) outfile (m10) svyparms([NBpv(5)
final_weight_name(TC_WGT2019) rep_weight_name(rwgtt) variancefactor(StIDSch) NREP(95)])
```