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cd "C:\Users\bdbaker\Dropbox\C-DATA SEMINAR 2015\Sample NJ Data Compilation\njdata\"
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use "big_fuckin_nj_data09_14.dta", clear
gen count=1
set matsize 6000
egen school_year=concat(codistsch year), punct(_)

xi: reg salary i.degree i.exp_nj i.co i.jc1 i.year if fte1=="F"
predict pred_salary
predict salary_resid, rstandard
gen novice_ba=0
recode novice_ba 0=1 if degree<=2 & exp_tot<=3
gen perfree=free/rowtot
gen perfrpl=(free+reduce)/rowtot
gen perlep=lep/rowtot

egen tot_count=sum(count), by(school_year)
egen ft_count=sum(count) if fte1=="F", by(school_year)
egen fttchcount=sum(count) if fte1=="F" & jc1>=1000, by(school_year)
egen novice_count=sum( novice_ba), by(school_year)
egen totsalary_school=sum(salary), by(school_year)

egen x_pred_salary=mean(pred_salary), by(school_year)
egen x_salary_school=mean(salary), by(school_year)
egen x_fttchsalary_school=mean(salary) if fte1=="F" & jc1>=1000, by(school_year)
egen x_totexp=mean(exp_tot), by(school_year)
egen x_salresid=mean( salary_resid ), by(school_year)

gen salary_perpupil=totsalary_school/rowtot
gen pct_novice_ba=novice_count/tot_count
gen totcount_perpupil=tot_count/rowtot
gen ftcount_perpupil=ft_count/rowtot
gen fttchcount_perpupil=fttchcount/rowtot

keep school_year year school_gradespan codistsch districtname schoolname city
salary_perpupil pct_novice totcount_perpupil ftcount_perpupil fttchcount_perpupil
x_pred_salary x_salary_school x_fttchsalary_school x_totexp x_salresid perfree perfrpl
perlep tot_count ft_count fttchcount novice_count totsalary_school
drop if schoolname==" "
drop if fttchcount==.
gen elemmiddle=0
recode elemmiddle 0=1 if school_g=="KG-08"
recode elemmiddle 0=1 if school_g=="PK-08"
recode elemmiddle 0=1 if school_g=="01-08"
gen highschool=0
recode highschool 0=1 if school_gradespan=="09-12"
recode highschool 0=1 if school_gradespan=="10-12"
recode highschool 0=1 if school_gradespan=="11-12"
gen middlehigh=0
recode middlehigh 0=1 if school_gradespan=="08-12"
recode middlehigh 0=1 if school_gradespan=="07-12"
recode middlehigh 0=1 if school_gradespan=="06-12"
gen middleschool=0
recode middleschool 0=1 if school_gradespan=="04-08"
recode middleschool 0=1 if school_gradespan=="05-08"
recode middleschool 0=1 if school_gradespan=="06-08"
recode middleschool 0=1 if school_gradespan=="07-08"
gen k12school=0
recode k12school 0=1 if school_gradespan=="KG-12"
recode k12school 0=1 if school_gradespan=="PK-12"
recode k12school 0=1 if school_gradespan=="01-12"
gen co=substr(codistsch,1,2)
gen charter=0
recode charter 0=1 if co=="80"
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duplicates drop
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sort school_year
merge school_year using testpanel
drop _merge
sort school_year

label var perfree "% Free Lunch"
label var perfrpl "% Free or Reduced"
label var perlep "% ELL"
label var tot_count "Total Staffing Count"
label var ft_count "Total Full Time Staffing Count"
label var fttchcount "Total Full Time Teaching Staff Count"
label var novice_count "Total Staff with <=3yrs & BA Only"
label var totsalar_y_school "Cumulative Salaries at School Level"
label var x_pred_salary "Predicted Salaries within County at Deg, Exp, JC & FTE"
label var x_salary_school "School Average Salary"
label var x_fttchsalary_school "School Average FT Teacher Salary"
label var x_totexp "School Average Total Experience"
label var x_salresid "School Average Deviation from Predicted Salary"
label var pct_novice_ba "% Teachers Novice with BA"
label var totcount_perpupil "Total Cert Staff per Pupil"
label var ftcount_perpupil "Total FT Cert Staff per Pupil"
label var salary_perpupil "Total Salaries per Pupil"
label var fttchcount_perpupil "Total FT Cert Teachers per Pupil"
label var elemmiddle "PK or KG through 8"

save nj_school_resources.dta, replace

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