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/*
NOTES: This dofile creates the firm-level analysis dataset
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*/

cap log close
log using "$log_save\create_firm_level", replace

use "$saveaddress_data\merged_ind_panel", clear
cap drop n
cap drop n_id
egen n_id=group(id_new)
cap drop n_fid
egen n_fid=group(taxrefno)
*Code from Marlies
gen totalperiodsinyearofassessment1 = substr(totalperiodsinyearofassessment, ".", "
> ", .)
cap drop totpy
destring totalperiodsinyearofassessment1 , gen(totpy) force
gen totalperiodsworked1 = substr(totalperiodsworked, ".", " ", .)
cap drop totpwork
destring totalperiodsworked1, gen(totpwork) force

replace totpy=abs(totpy)
replace totpwork=abs(totpwork)

gen frac=totpwork/totpy

gen totpy_annual=totpy
replace totpy_annual=totpy*2 if totpy==26
gen frac_annual= totpwork/totpy_annual

* create monthly earnings
gen monthly_earnings=(a3601_income/frac)/12

*create total wages per firm
bys n_fid taxyear: egen double tot_3601 = total(a3601_income)
bys n_fid taxyear: egen double tot_kerr = total(kerr_income) if kerr_emp_inc==1

*identify minimum wage workers (workers earning below 2274 in 2012)
sort id_new taxyear
br id_new taxyear monthly_earnings
drop if id_new == ""
cap drop mw_worker_2012
gen mw_worker_2012 = monthly_earnings<2274 & taxyear ==2013

cap drop mw_worker_2012_tg
by id_new: egen mw_worker_2012_tg = max(mw_worker_2012)

* number of workers in firm
bysort n_fid taxyear: egen firm_size=count(n_id)

*gen fraction affected - which min wage value to take?
cap drop FA
bysort n_fid taxyear: egen FA=count(n_id) if monthly_earnings<2274
cap drop mw_count_2012
gen mw_count_2012 = FA if taxyear == 2013
replace mw_count_2012 = 0 if mw_count_2012 ==.
cap drop mw_count_2013
gen mw_count_2013 = FA if taxyear == 2014
replace mw_count_2013 = 0 if mw_count_2013==.

cap drop mw_count_2012_tag
bys taxrefno: egen mw_count_2012_tag = max(mw_count_2012)

cap drop mw_count_2013_tag
bys taxrefno: egen mw_count_2013_tag = max(mw_count_2013)

*Compliance is the proportion of minimum wage workers who recieved and the minimum wag
> e

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cap drop compliance
gen compliance = mw_count_2013_tag/mw_count_2012_tag

tab taxyear

br id_new taxyear FA mw_count_2012

gen fraction_affected=FA/firm_size
egen prop_affected=max(fraction_affected),by(n_fid taxyear)
replace prop_affected=0 if prop_affected==. & FA==.

bro n_id n_fid taxyear FA fraction_affected prop_affected
cap drop prop_affected_2012
gen prop_affected_2012 = 0
replace prop_affected_2012 = prop_affected if taxyear==2013
cap drop fa_use
bys taxrefno: egen fa_use = max(prop_affected_2012)

cap drop n_fid
egen n_fid = group(taxrefno)

cap drop n
bys n_fid taxyear : gen n = _n

keep if n ==1
cap drop n
tab taxyear
*SAVE ANALYSIS DATASET.
save "$saveaddress_data\analysis_firm.dta", replace

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