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cap cd "Z:\\"
log using "Clean_Gallup.log", text replace
clear
set mem 2000m
use gallup.dta /*Don't use the original "file.dta" provided by Gallup */
set more off

* Data cleaning
gen year=2006
gen wt=wt
gen str3 cty=""
for ! in num 1 2 3 4 5 6 8 9 \ @ in any USA EGY MAR LBN SAU JOR TUR PAK: replace cty="@ "
if wp5==!
for ! in num 10/19 \ @ in any IDN BGD GBR FRA DEU NLD BEL ESP ITA POL: replace cty="@ " if
wp5==!
for ! in num 20/29 \ @ in any HUN CZE ROM SWE GRC DNK IRN HKG SGP JPN: replace cty="@ " if
wp5==!
for ! in num 30/39 \ @ in any CHN IND VEN BRA MEX NGK KEN TZA ISR PSE: replace cty="@ " if
wp5==!
for ! in num 40/49 \ @ in any GHA UGA BEN MDG MWI ZAF CAN AUS PHL LKA: replace cty="@ " if
wp5==!
for ! in num 50/57 \ @ in any VNM THA KHM LAO MMR NZL AGO BWA: replace cty="@ " if wp5==!
for ! in num 60/69 \ @ in any ETH MLI MRT MOZ NER RWA SEN ZMB KOR TWN: replace cty="@ " if
wp5==!
for ! in num 70/79 \ @ in any AFG BLR GEO KAZ KGZ MDA RUS UKR BFA CMR: replace cty="@ " if
wp5==!
for ! in num 80 81 82 83 84 87 88 89 \ @ in any SLE ZWE CRI ALB DZA ARG ARM AUT: replace
cty="@ " if wp5==!
for ! in num 90 96 97 99 \ @ in any AZE BOL BIH BGR: replace cty="@ " if wp5==!
for ! in num 100 103 104 105 109 \ @ in any BDI TCD CHL COL HRV: replace cty="@ " if wp5==!
for ! in num 110 111 114 115 116 119 \ @ in any CUB CYP DOM ECU SLV EST: replace cty="@ "
if wp5==!
for ! in num 121 124 128 129 \ @ in any FIN GTM HTI HND: replace cty="@ " if wp5==!
for ! in num 131 132 135 137 138 \ @ in any IRQ IRL JAM KWT LVA: replace cty="@ " if wp5==!
for ! in num 143 145 146 \ @ in any LTU MKD MYS: replace cty="@ " if wp5==!
for ! in num 154 157 158 \ @ in any MNE NPL NIC: replace cty="@ " if wp5==!
for ! in num 160 163 164 165 166 167 \ @ in any NOR PAN PRY PER PRT PRI: replace cty="@ "
if wp5==!
for ! in num 173 175 176 \ @ in any SRB SVK SVN: replace cty="@ " if wp5==!
for ! in num 184 185 187 189 \ @ in any CHE TJK TGO TTO: replace cty="@ " if wp5==!
for ! in num 193 194 195 197 198 \ @ in any ARE URY UZB YEM UNK: replace cty="@ " if wp5==!
tab wp5 if cty==" "
gen oecd=0
for X in any AUT BEL CAN DNK FRA DEU GRC ISL IRL ITA LUX NLD NOR PRT ESP SWE CHE TUR GBR
USA JPN FIN AUS NZL MEX CZE KOR HUN POL SVK: replace oecd=1 if cty=="X"
gen wvs=0
for ! in any ALB ARG ARM AUS AUT AZE BEL BGD BGR BIH BLR BRA CAN CHE CHL CHN COL CZE DEU
DNK DOM DZA EGY ESP EST FIN FRA GBRGEO GRC HRV HUN IDN IND IRL IRN IRQ ISL ISR ITA JOR
JPN KGZ KOR LTU LUX LVA MAR MDA MEX MKD MLT NGK NIR NLD NOR NZL PAK PER PHL POL PRI PRT
ROM RUS SAU SCG SGP SLV SVK SVN SWE TUR TWN TZA UGA UKR URY USA VEN VNM ZAF ZWE: replace
wvs=1 if cty=="!"

gen sex=wp1219
gen age=wp1220
gen marital=wp1223
gen urbanrural=wp14
gen educ=WP3117

gen sat_current=wp16
la var sat "Current Life Satisfaction"
gen sat_past=wp17
la var sat_past "Life Satisfaction 5 years ago"
gen sat_future=wp18
la var sat_future "Expected Life Satisfaction in 5 years"
cap gen sat_life=wp4656
cap la var sat_life "Satisfaction with Life as a Whole"

for X in var wp59-wp66 \ Y in any moredays wellrested respect choose smile proud lean

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goodfood: gen yesterday_Y=X
for X in any moredays wellrested respect choose smile proud lean goodfood \ Y in any
"Would you like to have more days just like yesterday?" "Did you feel well rested
yesterday?" "Were you treated with respect all day yesterday?" "Were you able to choose
how you spent your time all day?" "Did you smile or laugh a lot yesterday?" "Were you
proud of something you did yesterday?" "Did you learn or do something interesting
yesterday?" "Did you have good tasting food to eat yesterday?" : la var yesterday_X "Y"
for X in var wp67-wp76 \ Y in any enjoyment pain worry sadness boredom depression anger
love: gen feelings_Y=X
for X in any enjoyment pain worry sadness boredom depression anger love \ Y in any
"Enjoyment" "Physical Pain" "Worry" "Sadness" "Boredom" "Depression" "Anger" "Love" : la
var feelings_X "Y"

* Deal with missing values
for var sat_*: replace X=. if X==98 | X==99
for var yesterday_* feelings_*: replace X=. if X==3 | X==4
label define yesno 0 "No" 1 "yes"
for var yesterday_* feelings_*: replace X=0 if X==2 \ label values X yesno
label define educ 1 "Primary or less" 2 "Secondary-3 year Tertiary" 3 "4 year Tertiary or
more"
label values educ educ
for var educ: replace X=. if X==4 | X==5

* Merge in data
* Merge in lags
foreach i of numlist 0(5)30 {
    replace year=year-`i'

    sort cty year
    merge cty year using "gdp per capita" /* This is the WDI data*/
    drop if _merge==2
    rename gdp gdp`i'
    keep if year==2006-`i'
    tab cty if _merge==1
    rename _merge _merge_wdi_`i'
    sort cty year
    replace year=2004 if year==2006
    sort cty year
    merge cty year using "PWT"
    rename cgdp cgdp`i'
    drop if _merge==2
    tab cty if _merge==1
    rename _merge _merge_pwt_`i'
    la var cgdp`i' "PWT Real GDP per capita; 2004"
    replace year=2006 if year==2004
    gen lgdp`i'=ln(gdp`i')
    gen lcgdp`i'=ln(cgdp`i')
    reg lgdp`i' lcgdp`i'
    predict lgdph`i'
    replace lgdp`i'=lgdph`i' if lgdp`i'==.
    replace gdp`i'=exp(lgdp`i') if gdp`i'==.
    drop lgdph`i'
    la var lgdp`i' "lgdp, lagged `i' years"

    replace year=year+`i'
}

* Merge actuals
sort cty year
merge cty year using "gdp per capita" /* This is the WDI data*/
drop if _merge==2
keep if year==2006
tab cty if _merge==1
rename _merge _merge_wdi
sort cty year
replace year=2004

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sort cty year
merge cty year using "PWT"
drop if _merge==2
tab cty if _merge==1
rename _merge _merge_pwt
la var cgdg "PWT Real GDP per capita; 2004"
replace year=2006
gen lgdp=ln(gdp)
gen lcgdp=ln(cgdg)
reg lgdp lcgdp
predict lgdph
replace lgdp=lgdph if lgdp==.
replace gdp=exp(lgdp) if gdp==.
drop lgdph

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/* Add data from the CIA factbook for latest numbers*/
local usratio=38165.25/44000 /*Ratio of real US GDP to CIA factbook number for 2006*/
replace gdp=`usratio'*1800 if cty=="MMR"
replace gdp=`usratio'*5600 if cty=="BIH"
replace gdp=`usratio'*4000 if cty=="CUB"
replace gdp=`usratio'*2900 if cty=="IRQ"
replace gdp=`usratio'*23100 if cty=="KWT"
replace gdp=`usratio'*3800 if cty=="MNE"
replace gdp=`usratio'*19300 if cty=="PRI"
replace gdp=`usratio'*7700*.93 if cty=="SRB"
replace gdp=`usratio'*49700 if cty=="ARE"
replace gdp=`usratio'*1800 if cty=="UNK"
replace gdp=`usratio'*13800 if cty=="SAU"

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replace lgdp=ln(gdp)
compress
save gallup_work, replace

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log close

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