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1 *****
2 *   UTILITY TO ANALYSE NDNS CPAQ DATA. *
3 *   NOTE: All data for the NDNS CPAQ has been completed using online questionnaires. Data does not need *
4 *   cleaning beyond entry. *
5 * *
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7 *   Version 2.0 *
8 *   Date: 10/07/2023 *
9 *****
10
11 /*
12 Version history:
13 v1.0: Code created to work on Year 12 of NDNS. This was the first implementation of the questionnaire within
14 NDNS. Data were split into _A and _B variables depending on which version of the questionnaire was
15 completed.
16 Code produces inschool and out of school variables by combining the P_/PC_/C_ variables into one
17 output variable. This is due to the fact the questions asked throughout the two questionnaires do not
18 differ greatly. See the questionnaires for the differences.
19 Results at the end should be viewed in their split due to the slight differences.
20 MVPA variables were decided internally as to which activities would count towards MVPA with the guidance
21 of the youth compendium (https://www.nccor.org/tools-youthcompendium/met-view-all-categories/).
22
23 V2.0: Removed _A variables as they could not be harmonised to the newer versions of the questionnaire.
24 Questionnaire only for those aged 4-15 so younger data is now in the UPAQ.
25
26 */
27
28 global ROOT_FOLDER      = "" //Replace with the path of your main PAQ folder
29 global PAQ_YEAR         = "" //Replace with the year you want, e.g. Y15
30 global PROCESSING_F     = "" //Replace with the path of your processing folder, on from ROOT_FOLDER
31 global DATA_FOLDER    = "" //Replace with the path of your data folder, on from ROOT_FOLDER
32 global RESULTS_FOLDER  = "" //Replace with the path of your results folder, on from ROOT_FOLDER
33
34 global CPAQ_DATA_FILE   = "" //Replace with your data file name in your data folder
35 global CPAQ_RESULTS_FILE = "" //Replace with your results file name in your results folder
36
37 *****
38 *** PROCESSING ***
39 *****
40
41 use "$ROOT_FOLDER/$PROCESSING_F/$DATA_FOLDER/$CPAQ_DATA_FILE.dta", clear
42
43 qui {
44
45 // MERGING THE PC_CPAQ and C_CPAQ DATA INTO ONE OVERALL VARIABLES TO WORK FROM
46
47 *** COMMUTING VARS (PC_CPAQ [v1.1.0+]/C_CPAQ [V1.1.0+]) ***
48 qui {
49   gen WentToSchool_B = .
50   replace WentToSchool_B = PC_WentToSchool_v2 if PC_WentToSchool_v2 != -1
51   replace WentToSchool_B = C_WentToSchool if C_WentToSchool != -1 & WentToSchool == .
52
53   *** GETTING TO/FROM SCHOOL ***
54   foreach MODE in Walk Cycle Motorised {
55     foreach TOFROM in To From {
56
57       //renaming the PC variables to allow for easy processing
58       rename PC_`MODE'`TOFROM'SchoolDays_v2 PC_`MODE'`TOFROM'SchoolDays
59
60       //No Of Days
61       gen TOTDAYS_`MODE'`TOFROM'Schl_B = .
62       replace TOTDAYS_`MODE'`TOFROM'Schl_B = PC_`MODE'`TOFROM'SchoolDays if PC_`MODE'`TOFROM'SchoolDays !=-1
63       replace TOTDAYS_`MODE'`TOFROM'Schl_B = C_`MODE'`TOFROM'SchoolDays if C_`MODE'`TOFROM'SchoolDays !=-1 & TOTDAYS_`MODE'`TOFROM'Schl_B == .
64
65       //Duration
66       foreach TIME in Hr Min {
67         gen `MODE'`TOFROM'Schl`TIME'_B = .
68         replace `MODE'`TOFROM'Schl`TIME'_B = PC_`MODE'`TOFROM'School`TIME'_v2 if PC_`MODE'`TOFROM'School`TIME'_v2 !=-1

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69         replace `MODE``TOFROM'Schl`TIME'_B = C_`MODE``TOFROM'School`TIME' if C_`MODE``TOFROM'School`TIME' !=-1 & `MODE``TOFROM'Schl`TIME' ==.
70     }
71
72     // Generating daily total duration for each mode of transport (Hr+Min)
73     gen TOTDUR_dy_`MODE``TOFROM'Schl_B = .
74     replace TOTDUR_dy_`MODE``TOFROM'Schl_B = `MODE``TOFROM'SchlHr_B*60 if `MODE``TOFROM'SchlHr_B !=-1 & `MODE``TOFROM'SchlMin_B ==.
75     replace TOTDUR_dy_`MODE``TOFROM'Schl_B = `MODE``TOFROM'SchlMin_B if `MODE``TOFROM'SchlHr_B ==. & `MODE``TOFROM'SchlMin_B !=-1
76     replace TOTDUR_dy_`MODE``TOFROM'Schl_B = `MODE``TOFROM'SchlHr_B*60 + `MODE``TOFROM'SchlMin_B if `MODE``TOFROM'SchlHr_B !=. & `MODE``TOFROM'SchlMin_B !=.
77 }
78
79 //adding row of to and from school to get commute days and duration for that mode of transport
80 egen TOTDAYS_SchlComm`MODE'_B = rowtotal(TOTDAYS_`MODE'ToSchl_B TOTDAYS_`MODE'FromSchl_B)
81 gen TOTDUR_SchlComm`MODE'_B = cond(missing(TOTDUR_dy_`MODE'ToSchl_B), 0, (TOTDUR_dy_`MODE'ToSchl_B*TOTDAYS_`MODE'ToSchl_B))+cond(missing(TOTDUR_dy_`MODE'FromSchl_B), 0, (TOTDUR_dy_`MODE'
FromSchl_B*TOTDAYS_`MODE'FromSchl_B))
82 gen TOTDUR_dy_SchlComm`MODE'_B = TOTDUR_SchlComm`MODE'_B/TOTDAYS_SchlComm`MODE'_B
83
84 //replacing any variable with missing that was not answered (as rowtotal can put 0s)
85 replace TOTDAYS_SchlComm`MODE'_B = . if TOTDAYS_`MODE'ToSchl_B == . & TOTDAYS_`MODE'FromSchl_B == .
86 replace TOTDUR_SchlComm`MODE'_B = . if TOTDAYS_SchlComm`MODE'_B == . & TOTDUR_dy_`MODE'ToSchl_B == . & TOTDUR_dy_`MODE'FromSchl_B == .
87 replace TOTDUR_dy_SchlComm`MODE'_B = . if TOTDUR_SchlComm`MODE'_B == . & TOTDAYS_SchlComm`MODE'_B == .
88
89
90 }
91 }
92
93 *** PE LESSONS (PC_CPAQ [v2+]/C_CPAQ [V1.1+]) ***
94 qui {
95     // PE Lessons (minutes). This is asked as a tick box (1-8)
96     // 1 = 1-14 mins; 2 = 15-29 mins; 3 = 30-44 mins; 4 = 45-59 mins; 5 = 1 hr-1 hr 29 mins; 6 = 1 hr 30 mins-1 hr 59 mins; 7 = 2 hrs-2 hrs 59 mins; 8 = More than 3 hrs
97     gen DoPELessons_B = .
98     replace DoPELessons_B = PC_DoPELessons if PC_DoPELessons !=-1
99     replace DoPELessons_B = C_DoPELessons if C_DoPELessons !=-1 & DoPELessons_B == .
100
101     foreach WDWE in Wday Wend {
102         //No of days (split into weekdays and weekend days)
103         gen TOTDAYS_PE`WDWE'_B = .
104         replace TOTDAYS_PE`WDWE'_B = PC_PeLessonsDays`WDWE' if PC_PeLessonsDays`WDWE' != -1
105         replace TOTDAYS_PE`WDWE'_B = C_PeLessonsDays`WDWE' if C_PeLessonsDays`WDWE' != -1 & TOTDAYS_PE`WDWE'_B == .
106
107         //Duration
108         gen TOTDUR_PE`WDWE'_B = .
109         foreach prefix in PC C {
110             //removing the _v2 from variable name
111             cap rename `prefix'_PELessonsDur`WDWE'_v2 `prefix'_PELessonsDur`WDWE'
112
113             //replacing overall time with duration based of off the coding
114             replace TOTDUR_PE`WDWE'_B = 7 if `prefix'_PELessonsDur`WDWE'_v2 == 1
115             replace TOTDUR_PE`WDWE'_B = 22 if `prefix'_PELessonsDur`WDWE'_v2 == 2
116             replace TOTDUR_PE`WDWE'_B = 37 if `prefix'_PELessonsDur`WDWE'_v2 == 3
117             replace TOTDUR_PE`WDWE'_B = 52 if `prefix'_PELessonsDur`WDWE'_v2 == 4
118             replace TOTDUR_PE`WDWE'_B = 74 if `prefix'_PELessonsDur`WDWE'_v2 == 5
119             replace TOTDUR_PE`WDWE'_B = 104 if `prefix'_PELessonsDur`WDWE'_v2 == 6
120             replace TOTDUR_PE`WDWE'_B = 149 if `prefix'_PELessonsDur`WDWE'_v2 == 7
121
122             //If PE lesson score = 8 (>=3 hours) the duration is asked in hours and minutes
123             replace TOTDUR_PE`WDWE'_B = `prefix'_PELessonsDur`WDWE'Hr*60 if `prefix'_PELessonsDur`WDWE'Hr !=-1 & `prefix'_PELessonsDur`WDWE'Min ==-1 & `prefix'_PELessonsDur`WDWE'_v2 == 8
124             replace TOTDUR_PE`WDWE'_B = `prefix'_PELessonsDur`WDWE'Min if `prefix'_PELessonsDur`WDWE'Hr ==-1 & `prefix'_PELessonsDur`WDWE'Min !=-1 & `prefix'_PELessonsDur`WDWE'_v2 == 8
125             replace TOTDUR_PE`WDWE'_B = `prefix'_PELessonsDur`WDWE'Hr*60 + `prefix'_PELessonsDur`WDWE'Min if `prefix'_PELessonsDur`WDWE'Hr !=-1 & `prefix'_PELessonsDur`WDWE'Min !=-1 & `prefix'
_PeLessonsDur`WDWE'_v2 == 8
126
127         }
128     }
129
130     //Overall PE days and duration (Overall and daily)
131     egen TOTDAYS_PE_B = rowtotal(TOTDAYS_PEWday_B TOTDAYS_PEWend_B)
132     egen TOTDUR_PE_B = rowtotal(TOTDUR_PEWday_B TOTDUR_PEWend_B)
133
134     //replacing any variable with missing that was not answered (as rowtotal can put 0s)

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135     replace TOTDAYS_PE_B = . if TOTDAYS_PEwday_B == . & TOTDAYS_PEWend_B == .
136     replace TOTDUR_PE_B = . if TOTDAYS_PE_B == . & TOTDUR_PEwday_B == . & TOTDUR_PEWend_B == .
137 }
138
139 *** ACTIVITIES (PC_CPAQ [v2+]/C_CPAQ [V1.1+]) ***
140 // Creating a Duration variable for each of the activities, but inside and out of shcool
141 foreach ACT in Hopscotch Trampoline PlayAround Skate Skipping Football Netball Cricket Dance Run Gym Weights Aerobics ///
142 Tennis SwimLaps SwimSplash Cycle Walk Softplay Housework Other1 Other2 Other3 Other4 Other5 {
143     foreach suff in "" "InSch1" {
144         //Local VN_suff is to add to the end of the variable names so school and out of school can be defined
145         local VN_suff = ""
146         if "`suff'" == "InSch1" {
147             local VN_suff = "Sch1" //In School
148         }
149         if "`suff'" == "" {
150             local VN_suff = "OoS" //Out of School
151         }
152
153         *** DO ACTIVITIES ***
154         // Creating blank Do, days and duration for each activity (to join PC and C)
155         gen Do`ACT'`_VN_suff'_B = .
156         gen TOTDAYS_`ACT'wday_`_VN_suff'_B = .
157         gen TOTDUR_`ACT'wday_`_VN_suff'_B = .
158         gen TOTDAYS_`ACT'Wend_`_VN_suff'_B = .
159         gen TOTDUR_`ACT'Wend_`_VN_suff'_B = .
160
161         //Looping thorough PC and C variables to replace the new overall variable with an actual answer
162         foreach prefix in PC C {
163             //Dropping original C_ variables for activities (These were for the V1 version of of the questionnaire)
164             //Checking if they are empty. If they are not. Stop the code here
165             if "`prefix'" == "C" {
166                 foreach WDWE in Wday Wend {
167                     capture confirm variable `prefix'`_ACT'Dur`WDWE``suff'
168                     if !_rc {
169                         su `prefix'`_ACT'Dur`WDWE``suff'
170                         local OBS = r(N)
171                         if `OBS' == 0 {
172                             drop `prefix'`_ACT'Dur`WDWE``suff'
173                         }
174                         if `OBS' !=0 {
175                             nois di in red "The original variable (`prefix'`_ACT'Dur`WDWE``suff') has data in so could not drop"
176                             STOP
177                         }
178                     }
179                 }
180             }
181
182             // Renaming the Do Activity variables to removed _v2 so PC and C can be treated the same
183             cap rename `prefix'_Do`ACT``suff'_v2 `prefix'_Do`ACT``suff'
184
185             // Looking for the variable. If present replace the overall with whatever was in PC/C (providing it was not -1 and overall == .)
186             capture confirm variable `prefix'_Do`ACT``suff'
187             if !_rc {
188                 replace Do`ACT'`_VN_suff'_B = `prefix'_Do`ACT``suff' if `prefix'_Do`ACT``suff' !=-1 & Do`ACT'`_VN_suff'_B == .
189                 nois di in yellow "var: `prefix'_Do`ACT``suff' exist"
190             }
191             else {
192                 di in red "var: `prefix'_Do`ACT``suff' Does not exist"
193             }
194
195             //looping through the weekday and week end variable, checking if exists and merging into one overall var if there
196             foreach WDWE in Wday Wend {
197
198                 cap rename `prefix'`_ACT'Days`WDWE``suff'_v2 `prefix'`_ACT'Days`WDWE``suff'
199                 cap rename `prefix'`_ACT'Dur`WDWE``suff'_v2 `prefix'`_ACT'Dur`WDWE``suff'
200
201                 capture confirm variable `prefix'`_ACT'Dur`WDWE``suff'
202                 if !_rc {

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203
204 //Replacing the number of days with values that are not -1
205 replace TOTDAYS_`ACT`_`WDWE`_`VN_suff`_B = `prefix`_`ACT`Days`WDWE`_`suff` if `prefix`_`ACT`Days`WDWE`_`suff` !=-1 & TOTDAYS_`ACT`_`WDWE`_`VN_suff`_B == .
206
207 //Replacing the duration with the minutes calculated from the coded input
208 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 7 if `prefix`_`ACT`Dur`WDWE`_`suff` == 1 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
209 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 22 if `prefix`_`ACT`Dur`WDWE`_`suff` == 2 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
210 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 37 if `prefix`_`ACT`Dur`WDWE`_`suff` == 3 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
211 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 52 if `prefix`_`ACT`Dur`WDWE`_`suff` == 4 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
212 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 89 if `prefix`_`ACT`Dur`WDWE`_`suff` == 5 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
213 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 104 if `prefix`_`ACT`Dur`WDWE`_`suff` == 6 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
214 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = 149 if `prefix`_`ACT`Dur`WDWE`_`suff` == 7 & TODDUR_`ACT`_`WDWE`_`VN_suff`_B == .
215
216 //If Activity score = 8 (over 3 hours) the duration is asked in hours and minutes
217 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = `prefix`_`ACT`Dur`WDWE`_`suff`Hr*60 if `prefix`_`ACT`Dur`WDWE`_`suff`Hr !=-1 & `prefix`_`ACT`Dur`WDWE`_`suff`Min ==-1 & `prefix`_`ACT`Dur
`WDWE`_`suff` == 8
218 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = `prefix`_`ACT`Dur`WDWE`_`suff`Min if `prefix`_`ACT`Dur`WDWE`_`suff`Hr ==-1 & `prefix`_`ACT`Dur`WDWE`_`suff`Min !=-1 & `prefix`_`ACT`Dur
`WDWE`_`suff` == 8
219 replace TODDUR_`ACT`_`WDWE`_`VN_suff`_B = `prefix`_`ACT`Dur`WDWE`_`suff`Hr*60 + `prefix`_`ACT`Dur`WDWE`_`suff`Min if `prefix`_`ACT`Dur`WDWE`_`suff`Hr !=-1 & `prefix`_`ACT`Dur`WDWE`_`suff`
Min !=-1 & `prefix`_`ACT`Dur`WDWE`_`suff` == 8
220
221 }
222 }
223 }
224
225 //Adding up weekend and weekday to create an overall no of days and time
226 egen TOTDAYS_`ACT`_`VN_suff`_B = rowtotal(TOTDAYS_`ACT`Wday_`VN_suff`_B TOTDAYS_`ACT`Wend_`VN_suff`_B)
227 egen TODDUR_`ACT`_`VN_suff`_B = rowtotal(TODDUR_`ACT`Wday_`VN_suff`_B TODDUR_`ACT`Wend_`VN_suff`_B)
228
229 //replacing any variable with missing that was not answered (as rowtotal can put 0s)
230 replace TOTDAYS_`ACT`_`VN_suff`_B = . if TOTDAYS_`ACT`Wday_`VN_suff`_B == . & TOTDAYS_`ACT`Wend_`VN_suff`_B == .
231 replace TODDUR_`ACT`_`VN_suff`_B = . if TODDAYS_`ACT`_`VN_suff`_B == . & TODDUR_`ACT`Wday_`VN_suff`_B == . & TODDUR_`ACT`Wend_`VN_suff`_B == .
232 }
233 }
234
235 *** SEDENTARY ACTIVITIES (PC_CPAQ [v2+]/C_CPAQ [V1.1+]) ***
236 qui {
237   foreach SED in Read Screen Other {
238
239     // Creating blank Do, days and duration for each activity (to join PC and C)
240     gen DoSit`SED`_B = .
241     gen TOTDAYS_Sit`SED`Wday_B = .
242     gen TODDUR_Sit`SED`Wday_B = .
243     gen TOTDAYS_Sit`SED`Wend_B = .
244     gen TODDUR_Sit`SED`Wend_B = .
245
246     // Creating duration variables for the sedentary times. Values as below:
247     // 1 = 1-29 mins; 2 = 30-59 min; 3 = 1 hr-1 hr 59 mins; 4 = 2 hr-2 hr 59 mins; 5 = 3 hr-4 hr 59 mins; 6 = 5 hr-6 hr 59 mins
248     // 7 = 7 hr-8 hr 59 mins; 8 = 9 hr-10 hr 59 mins; 9 = 11 hr-12 hr 59 mins; 10 = 13 hr-14 hr 59 mins; 11 = 15 hr-16 hr 59 mins
249     // 12 = 17 hr-18 hr 59 mins; 13 = More than 19 hours
250     foreach prefix in PC C {
251
252       //Dropping original C_ variables for activities (These were for the V1 version of of the questionnaire)
253       //Checking if they are empty. If they are not. Stop the code here
254       if "`prefix'" == "C" {
255         foreach WDWE in Wday Wend {
256           capture confirm variable `prefix`_Sit`SED`Dur`WDWE`
257           if !_rc {
258             su `prefix`_Sit`SED`Dur`WDWE`
259             local OBS = r(N)
260             if `OBS' == 0 {
261               drop `prefix`_Sit`SED`Dur`WDWE`
262             }
263             if `OBS' !=0 {
264               nois di in red "The original variable (`prefix`_Sit`SED`Dur`WDWE`) has data in so could not drop"
265               STOP
266             }
267           }
268         }
269       }
270     }
271   }
272 }

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268     }
269 }
270
271 //Sorting out Do activities variable
272 cap rename `prefix'_DoSit`SED'_v2 `prefix'_DoSit`SED'
273 replace DoSit`SED'_B = `prefix'_DoSit`SED' if `prefix'_DoSit`SED' !=-1 & DoSit`SED' == .
274
275 //Looping through each Weekday and Weekend within PC C and to convert to Duration (minutes)
276 foreach WDWE in Wday Wend {
277     cap rename `prefix'_Sit`SED'Days`WDWE'_v2 `prefix'_Sit`SED'Days`WDWE'
278     cap rename `prefix'_Sit`SED'Dur`WDWE'_v2 `prefix'_Sit`SED'Dur`WDWE'
279
280
281 //Replacing the number of days with values that are not -1
282 replace TOTDAYS_Sit`SED``WDWE'_B = `prefix'_Sit`SED'Days`WDWE' if `prefix'_Sit`SED'Days`WDWE' !=-1 & TOTDAYS_Sit`SED``WDWE'_B == .
283
284 //Replacing duration with a time variable based off of coded entry
285 replace TOTDUR_Sit`SED``WDWE'_B = 15 if `prefix'_Sit`SED'Dur`WDWE' == 1
286 replace TOTDUR_Sit`SED``WDWE'_B = 45 if `prefix'_Sit`SED'Dur`WDWE' == 2
287 replace TOTDUR_Sit`SED``WDWE'_B = 90 if `prefix'_Sit`SED'Dur`WDWE' == 3
288 replace TOTDUR_Sit`SED``WDWE'_B = 150 if `prefix'_Sit`SED'Dur`WDWE' == 4
289 replace TOTDUR_Sit`SED``WDWE'_B = 240 if `prefix'_Sit`SED'Dur`WDWE' == 5
290 replace TOTDUR_Sit`SED``WDWE'_B = 360 if `prefix'_Sit`SED'Dur`WDWE' == 6
291 replace TOTDUR_Sit`SED``WDWE'_B = 480 if `prefix'_Sit`SED'Dur`WDWE' == 7
292 replace TOTDUR_Sit`SED``WDWE'_B = 600 if `prefix'_Sit`SED'Dur`WDWE' == 8
293 replace TOTDUR_Sit`SED``WDWE'_B = 720 if `prefix'_Sit`SED'Dur`WDWE' == 9
294 replace TOTDUR_Sit`SED``WDWE'_B = 840 if `prefix'_Sit`SED'Dur`WDWE' == 10
295 replace TOTDUR_Sit`SED``WDWE'_B = 960 if `prefix'_Sit`SED'Dur`WDWE' == 11
296 replace TOTDUR_Sit`SED``WDWE'_B = 1080 if `prefix'_Sit`SED'Dur`WDWE' == 12
297
298 //If Sed score = 13 (>=19 hours sed) the duration is asked in hours and minutes
299 replace TOTDUR_Sit`SED``WDWE'_B = `prefix'_Sit`SED'Dur`WDWE'Hr*60 if `prefix'_Sit`SED'Dur`WDWE'Hr !=-1 & `prefix'_Sit`SED'Dur`WDWE'Min ==-1 & `prefix'_Sit`SED'Dur`WDWE' == 13
300 replace TOTDUR_Sit`SED``WDWE'_B = `prefix'_Sit`SED'Dur`WDWE'Min if `prefix'_Sit`SED'Dur`WDWE'Hr ==-1 & `prefix'_Sit`SED'Dur`WDWE'Min !=-1 & `prefix'_Sit`SED'Dur`WDWE' == 13
301 replace TOTDUR_Sit`SED``WDWE'_B = `prefix'_Sit`SED'Dur`WDWE'Hr*60 + `prefix'_Sit`SED'Dur`WDWE'Min if `prefix'_Sit`SED'Dur`WDWE'Hr !=-1 & `prefix'_Sit`SED'Dur`WDWE'Min !=-1 & `prefix'_Sit
`SED'Dur`WDWE' == 13
302
303 }
304
305 }
306
307 egen TOTDAYS_Sit`SED'_B = rowtotal(TOTDAYS_Sit`SED'Wday_B TOTDAYS_Sit`SED'Wend_B)
308 egen TOTDUR_Sit`SED'_B = rowtotal(TOTDUR_Sit`SED'Wday_B TOTDUR_Sit`SED'Wend_B)
309
310 //replacing any variable with missing that was not answered (as rowtotal can put 0s)
311 replace TOTDAYS_Sit`SED'_B = . if TOTDAYS_Sit`SED'Wday_B == . & TOTDAYS_Sit`SED'Wend_B == .
312 replace TOTDUR_Sit`SED'_B = . if TOTDAYS_Sit`SED'_B == . & TOTDUR_Sit`SED'Wday_B == . & TOTDUR_Sit`SED'Wend_B == .
313 }
314 }
315 }
316
317 sort VersionNumber Q_type START
318
319 //dropping not needed variables:
320 drop DoOther*_Schl* TOTDAYS_Other*_Schl* TOTDUR_Other*_Schl* //Other activities not done at school so dropping here
321 drop *Cycle*_Schl* *Walk*_Schl* *Housework*_Schl* *Softplay*_Schl* //cycle, walk, housework and softplay not done at school - drop here
322 rename *Other*_OoS_B *Other*_B
323
324
325 /* No ending for PC_ and C_ (>=1.1).
326 Commute: Mins/day (already daily)
327 PE, Activities and Sedentary: Total Mins of all acts
328 */
329
330 *****
331 *** OVERALL TOTALS ***
332 *****
333 /* As variables have now been combined, the overall totals can be calculated*/
334

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335 //Generating Total School Commuting time
336 egen TOTDUR_AllSchlComm_B = rowtotal(TOTDUR_`VN_midd'SchlCommWalk_B TOTDUR_`VN_midd'SchlCommCycle_B ///
337     TOTDUR_`VN_midd'SchlCommMotorised_B)
338 //replacing variable with missing if none of the totdurs were ever answered
339 replace TOTDUR_AllSchlComm_B = . if TOTDUR_`VN_midd'SchlCommWalk_B == . & TOTDUR_`VN_midd'SchlCommCycle_B == . ///
340     & TOTDUR_`VN_midd'SchlCommMotorised_B == .
341
342 //Generating Total in School activities (Including PE)
343 egen TOTDUR_AllSchlActs_B = rowtotal(TOTDUR_`VN_midd'Hopscotch_Schl_B TOTDUR_`VN_midd'Trampoline_Schl_B ///
344     TOTDUR_`VN_midd'PlayAround_Schl_B TOTDUR_`VN_midd'Skate_Schl_B ///
345     TOTDUR_`VN_midd'Skipping_Schl_B TOTDUR_`VN_midd'Football_Schl_B ///
346     TOTDUR_`VN_midd'Netball_Schl_B TOTDUR_`VN_midd'Cricket_Schl_B ///
347     TOTDUR_`VN_midd'Dance_Schl_B TOTDUR_`VN_midd'Run_Schl_B ///
348     TOTDUR_`VN_midd'Gym_Schl_B TOTDUR_`VN_midd'Weights_Schl_B ///
349     TOTDUR_`VN_midd'Aerobics_Schl_B TOTDUR_`VN_midd'Tennis_Schl_B ///
350     TOTDUR_`VN_midd'SwimLaps_Schl_B TOTDUR_`VN_midd'SwimSplash_Schl_B ///
351     TOTDUR_`VN_midd'PE_B)
352
353 //replacing variable with missing if none of the totdurs were ever answered
354 replace TOTDUR_AllSchlActs_B = . if TOTDUR_`VN_midd'Hopscotch_Schl_B == . & TOTDUR_`VN_midd'Trampoline_Schl_B == . ///
355     & TOTDUR_`VN_midd'PlayAround_Schl_B == . & TOTDUR_`VN_midd'Skate_Schl_B == . ///
356     & TOTDUR_`VN_midd'Skipping_Schl_B == . & TOTDUR_`VN_midd'Football_Schl_B == . ///
357     & TOTDUR_`VN_midd'Netball_Schl_B == . & TOTDUR_`VN_midd'Cricket_Schl_B == . ///
358     & TOTDUR_`VN_midd'Dance_Schl_B == . & TOTDUR_`VN_midd'Run_Schl_B == . ///
359     & TOTDUR_`VN_midd'Gym_Schl_B == . & TOTDUR_`VN_midd'Weights_Schl_B == . ///
360     & TOTDUR_`VN_midd'Aerobics_Schl_B == . & TOTDUR_`VN_midd'Tennis_Schl_B == . ///
361     & TOTDUR_`VN_midd'SwimLaps_Schl_B == . & TOTDUR_`VN_midd'SwimSplash_Schl_B == . ///
362     & TOTDUR_`VN_midd'PE_B == .
363 //Generating Total in School activities (Excluding PE)
364 egen TOTDUR_AllSchlActs_NoPE_B = rowtotal(TOTDUR_`VN_midd'Hopscotch_Schl_B TOTDUR_`VN_midd'Trampoline_Schl_B ///
365     TOTDUR_`VN_midd'PlayAround_Schl_B TOTDUR_`VN_midd'Skate_Schl_B ///
366     TOTDUR_`VN_midd'Skipping_Schl_B TOTDUR_`VN_midd'Football_Schl_B ///
367     TOTDUR_`VN_midd'Netball_Schl_B TOTDUR_`VN_midd'Cricket_Schl_B ///
368     TOTDUR_`VN_midd'Dance_Schl_B TOTDUR_`VN_midd'Run_Schl_B ///
369     TOTDUR_`VN_midd'Gym_Schl_B TOTDUR_`VN_midd'Weights_Schl_B ///
370     TOTDUR_`VN_midd'Aerobics_Schl_B TOTDUR_`VN_midd'Tennis_Schl_B ///
371     TOTDUR_`VN_midd'SwimLaps_Schl_B TOTDUR_`VN_midd'SwimSplash_Schl_B)
372
373 //replacing variable with missing if none of the totdurs were ever answered
374 replace TOTDUR_AllSchlActs_NoPE_B = . if TOTDUR_`VN_midd'Hopscotch_Schl_B == . & TOTDUR_`VN_midd'Trampoline_Schl_B == . ///
375     & TOTDUR_`VN_midd'PlayAround_Schl_B == . & TOTDUR_`VN_midd'Skate_Schl_B == . ///
376     & TOTDUR_`VN_midd'Skipping_Schl_B == . & TOTDUR_`VN_midd'Football_Schl_B == . ///
377     & TOTDUR_`VN_midd'Netball_Schl_B == . & TOTDUR_`VN_midd'Cricket_Schl_B == . ///
378     & TOTDUR_`VN_midd'Dance_Schl_B == . & TOTDUR_`VN_midd'Run_Schl_B == . ///
379     & TOTDUR_`VN_midd'Gym_Schl_B == . & TOTDUR_`VN_midd'Weights_Schl_B == . ///
380     & TOTDUR_`VN_midd'Aerobics_Schl_B == . & TOTDUR_`VN_midd'Tennis_Schl_B == . ///
381     & TOTDUR_`VN_midd'SwimLaps_Schl_B == . & TOTDUR_`VN_midd'SwimSplash_Schl_B == .
382
383 //Generating Total Out of School Activities (Incl Cycl, walk and Softplay & Homework)
384 egen TOTDUR_AllOoSActs_B = rowtotal(TOTDUR_`VN_midd'Hopscotch_OoS_B TOTDUR_`VN_midd'Trampoline_OoS_B ///
385     TOTDUR_`VN_midd'PlayAround_OoS_B TOTDUR_`VN_midd'Skate_OoS_B ///
386     TOTDUR_`VN_midd'Skipping_OoS_B TOTDUR_`VN_midd'Football_OoS_B ///
387     TOTDUR_`VN_midd'Netball_OoS_B TOTDUR_`VN_midd'Cricket_OoS_B ///
388     TOTDUR_`VN_midd'Dance_OoS_B TOTDUR_`VN_midd'Run_OoS_B ///
389     TOTDUR_`VN_midd'Gym_OoS_B TOTDUR_`VN_midd'Aerobics_OoS_B ///
390     TOTDUR_`VN_midd'Tennis_OoS_B TOTDUR_`VN_midd'SwimLaps_OoS_B ///
391     TOTDUR_`VN_midd'SwimSplash_OoS_B TOTDUR_`VN_midd'Cycle_OoS_B ///
392     TOTDUR_`VN_midd'Walk_OoS_B TOTDUR_`VN_midd'Softplay_OoS_B ///
393     TOTDUR_`VN_midd'Housework_OoS_B)
394
395
396 //replacing variable with missing if none of the totdurs were ever answered
397 replace TOTDUR_AllOoSActs_B = . if TOTDUR_`VN_midd'Hopscotch_OoS_B == . & TOTDUR_`VN_midd'Trampoline_OoS_B == . ///
398     & TOTDUR_`VN_midd'PlayAround_OoS_B == . & TOTDUR_`VN_midd'Skate_OoS_B == . ///
399     & TOTDUR_`VN_midd'Skipping_OoS_B == . & TOTDUR_`VN_midd'Football_OoS_B == . ///
400     & TOTDUR_`VN_midd'Netball_OoS_B == . & TOTDUR_`VN_midd'Cricket_OoS_B == . ///
401     & TOTDUR_`VN_midd'Dance_OoS_B == . & TOTDUR_`VN_midd'Run_OoS_B == . ///
402     & TOTDUR_`VN_midd'Gym_OoS_B == . & TOTDUR_`VN_midd'Aerobics_OoS_B == . ///

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403 & TOTDUR_`VN_midd'Tennis_OoS_B == . & TOTDUR_`VN_midd'SwimLaps_OoS_B == . ///
404 & TOTDUR_`VN_midd'SwimSplash_OoS_B == . & TOTDUR_`VN_midd'Cycle_OoS_B == . ///
405 & TOTDUR_`VN_midd'Walk_OoS_B == . & TOTDUR_`VN_midd'Softplay_OoS_B == . ///
406 & TOTDUR_`VN_midd'Housework_OoS_B == .
407
408 //Generating OtherAct total time
409 egen TOTDUR_OtherAll_B = rowtotal(TOTDUR_`VN_midd'Other1_B TOTDUR_`VN_midd'Other2_B ///
410 TOTDUR_`VN_midd'Other3_B TOTDUR_`VN_midd'Other4_B ///
411 TOTDUR_`VN_midd'Other5_B)
412
413 //replacing variable with missing if none of the totdurs were ever answered
414 replace TOTDUR_OtherAll_B = . if TOTDUR_`VN_midd'Other1_B == . & TOTDUR_`VN_midd'Other2_B == . ///
415 & TOTDUR_`VN_midd'Other3_B == . & TOTDUR_`VN_midd'Other4_B == . ///
416 & TOTDUR_`VN_midd'Other5_B == .
417
418 //Generating Total Sitting time
419 egen TOTDUR_SittingTime_B = rowtotal(TOTDUR_`VN_midd'SitRead_B TOTDUR_`VN_midd'SitScreen_B ///
420 TOTDUR_`VN_midd'SitOther_B)
421
422 //replacing variable with missing if none of the totdurs were ever answered
423 replace TOTDUR_SittingTime_B = . if TOTDUR_`VN_midd'SitRead_B == . & TOTDUR_`VN_midd'SitScreen_B == . ///
424 & TOTDUR_`VN_midd'SitOther_B == .
425
426 //Generating overall total active time (Exc other and Sitting activities)
427 egen TOTDUR_AllActiveTime_B = rowtotal(TOTDUR_AllSchlComm_B TOTDUR_AllSchlActs_B ///
428 TOTDUR_`midd'AllOoSActs_B)
429
430 //replacing variable with missing if none of the totdurs were ever answered
431 replace TOTDUR_AllActiveTime_B = . if TOTDUR_AllSchlComm_B == . & TOTDUR_AllSchlActs_B == . ///
432 & TOTDUR_AllOoSActs_B == .
433
434 //Generating overall total of all time (Exc Other)
435 egen TOTDUR_ALL_B = rowtotal(TOTDUR_AllSchlComm_B TOTDUR_AllSchlActs_B ///
436 TOTDUR_AllOoSActs_B TOTDUR_SittingTime_B)
437
438 //replacing variable with missing if none of the totdurs were ever answered
439 replace TOTDUR_ALL_B = . if TOTDUR_AllSchlComm_B == . & TOTDUR_AllSchlActs_B == . ///
440 & TOTDUR_AllOoSActs_B == . & TOTDUR_SittingTime_B == .
441
442 //Generating overall total of all time (Inc Other)
443 egen TOTDUR_ALL_Ot_B = rowtotal(TOTDUR_AllSchlComm_B TOTDUR_AllSchlActs_B ///
444 TOTDUR_AllOoSActs_B TOTDUR_SittingTime_B ///
445 TOTDUR_OtherAll_B)
446
447 replace TOTDUR_ALL_Ot_B = . if TOTDUR_AllSchlComm_B == . & TOTDUR_AllSchlActs_B == . ///
448 & TOTDUR_AllOoSActs_B == . & TOTDUR_SittingTime_B == . ///
449 & TOTDUR_OtherAll_B == .
450
451 //Generating MVPA from all activities (might be able to work from some of the grouping)
452 egen TOTDUR_MVPA_B = rowtotal(TOTDUR_`VN_midd'SchlCommWalk_B TOTDUR_`VN_midd'SchlCommCycle_B ///
453 TOTDUR_`VN_midd'Hopscotch_Schl_B TOTDUR_`VN_midd'Trampoline_Schl_B ///
454 TOTDUR_`VN_midd'PlayAround_Schl_B TOTDUR_`VN_midd'Skate_Schl_B ///
455 TOTDUR_`VN_midd'Skipping_Schl_B TOTDUR_`VN_midd'Football_Schl_B ///
456 TOTDUR_`VN_midd'Netball_Schl_B TOTDUR_`VN_midd'Cricket_Schl_B ///
457 TOTDUR_`VN_midd'Dance_Schl_B TOTDUR_`VN_midd'Run_Schl_B ///
458 TOTDUR_`VN_midd'Gym_Schl_B TOTDUR_`VN_midd'Weights_Schl_B ///
459 TOTDUR_`VN_midd'Aerobics_Schl_B TOTDUR_`VN_midd'Tennis_Schl_B ///
460 TOTDUR_`VN_midd'SwimLaps_Schl_B TOTDUR_`VN_midd'SwimSplash_Schl_B ///
461 TOTDUR_`VN_midd'PE_B TOTDUR_`VN_midd'Hopscotch_OoS_B ///
462 TOTDUR_`VN_midd'Trampoline_OoS_B TOTDUR_`VN_midd'PlayAround_OoS_B ///
463 TOTDUR_`VN_midd'Skate_OoS_B TOTDUR_`VN_midd'Skipping_OoS_B ///
464 TOTDUR_`VN_midd'Football_OoS_B TOTDUR_`VN_midd'Netball_OoS_B ///
465 TOTDUR_`VN_midd'Cricket_OoS_B TOTDUR_`VN_midd'Dance_OoS_B ///
466 TOTDUR_`VN_midd'Run_OoS_B TOTDUR_`VN_midd'Gym_OoS_B ///
467 TOTDUR_`VN_midd'Aerobics_OoS_B TOTDUR_`VN_midd'Tennis_OoS_B ///
468 TOTDUR_`VN_midd'SwimLaps_OoS_B TOTDUR_`VN_midd'SwimSplash_OoS_B ///
469 TOTDUR_`VN_midd'Cycle_OoS_B TOTDUR_`VN_midd'Walk_OoS_B ///
470 TOTDUR_`VN_midd'Softplay_OoS_B)
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471
472 //replacing the variable with missing if all variables are missing (safety catch)
473 replace TOTDUR_MVPA_B = . if TOTDUR_VN_midd'SchlCommWalk_B == . & TOTDUR_VN_midd'SchlCommCycle_B == . ///
474 & TOTDUR_VN_midd'Hopscotch_Schl_B == . & TOTDUR_VN_midd'Trampoline_Schl_B == . ///
475 & TOTDUR_VN_midd'PlayAround_Schl_B == . & TOTDUR_VN_midd'Skate_Schl_B == . ///
476 & TOTDUR_VN_midd'Skipping_Schl_B == . & TOTDUR_VN_midd'Football_Schl_B == . ///
477 & TOTDUR_VN_midd'Netball_Schl_B == . & TOTDUR_VN_midd'Cricket_Schl_B == . ///
478 & TOTDUR_VN_midd'Dance_Schl_B == . & TOTDUR_VN_midd'Run_Schl_B == . ///
479 & TOTDUR_VN_midd'Gym_Schl_B == . & TOTDUR_VN_midd'Weights_Schl_B == . ///
480 & TOTDUR_VN_midd'Aerobics_Schl_B == . & TOTDUR_VN_midd'Tennis_Schl_B == . ///
481 & TOTDUR_VN_midd'SwimLaps_Schl_B == . & TOTDUR_VN_midd'SwimSplash_Schl_B == . ///
482 & TOTDUR_VN_midd'PE_B == . & TOTDUR_VN_midd'Hopscotch_OoS_B == . ///
483 & TOTDUR_VN_midd'Trampoline_OoS_B == . & TOTDUR_VN_midd'PlayAround_OoS_B == . ///
484 & TOTDUR_VN_midd'Skate_OoS_B == . & TOTDUR_VN_midd'Skipping_OoS_B == . ///
485 & TOTDUR_VN_midd'Football_OoS_B == . & TOTDUR_VN_midd'Netball_OoS_B == . ///
486 & TOTDUR_VN_midd'Cricket_OoS_B == . & TOTDUR_VN_midd'Dance_OoS_B == . ///
487 & TOTDUR_VN_midd'Run_OoS_B == . & TOTDUR_VN_midd'Gym_OoS_B == . ///
488 & TOTDUR_VN_midd'Aerobics_OoS_B == . & TOTDUR_VN_midd'Tennis_OoS_B == . ///
489 & TOTDUR_VN_midd'SwimLaps_OoS_B == . & TOTDUR_VN_midd'SwimSplash_OoS_B == . ///
490 & TOTDUR_VN_midd'Cycle_OoS_B == . & TOTDUR_VN_midd'Walk_OoS_B == . ///
491 & TOTDUR_VN_midd'Softplay_OoS_B == .
492
493
494 *** FLAGGING HIGH REPORTERS ***
495 //Flagging those that have reported more than 960 mins of sitting time or 960 mins of total time.
496 gen FLAG_High_Sitting = 1 if TOTDUR_SittingTime_B >= 960 & TOTDUR_SittingTime_B !=.
497 gen FLAG_High_Total = 1 if TOTDUR_ALL_Ot_B >= 960 & TOTDUR_ALL_Ot_B !=.
498
499 gen Note_NoSchlCommDur = 0
500 gen Note_NoSchlActsDur = 0
501 gen Note_NoOoSActsDur = 0
502 gen Note_NoSittingDur = 0
503
504 *** CREATING FLAG VARIABLES ***
505 foreach var in Walk Cycle Motorised {
506   gen FLAG_COMM`var'_DAYS_ONLY_B = 0
507   replace FLAG_COMM`var'_DAYS_ONLY_B = 1 if TOTDAYS_SchlComm`var'_B !=. & TOTDUR_SchlComm`var'_B == 0
508
509   gen FLAG_COMM`var'_DUR_ONLY_B = 0
510   replace FLAG_COMM`var'_DUR_ONLY_B = 1 if TOTDAYS_SchlComm`var'_B ==. & TOTDUR_SchlComm`var'_B !=.
511 }
512
513 replace Note_NoSchlCommDur = 1 if TOTDUR_AllSchlComm_B == . & TOTDUR_ALL_Ot_B !=.
514 replace Note_NoSchlActsDur = 1 if TOTDUR_AllSchlActs_B == . & TOTDUR_ALL_Ot_B !=.
515 replace Note_NoOoSActsDur = 1 if TOTDUR_AllOoSActs_B == . & TOTDUR_ALL_Ot_B !=.
516 replace Note_NoSittingDur = 1 if TOTDUR_SittingTime_B == . & TOTDUR_ALL_Ot_B !=.
517
518
519 *** CREATING CONSOLIDATED VARIABLES ***
520 gen code_used = 2
521 cap label variable code_used "1 = Daily Durs for Acts & Sed. 2 = Total Durs for Act & Sed."
522
523 //adding in proccessing information comment
524 gen process_comment = ""
525 replace process_comment = "PC_ vars ages 4/5-10 [v1.1.0+]. v1.1.0 could not enter commute duration. Ok v2+. Softplay asked. No weights or housework. Total durations asked for Acts & Sed." if Q_type ==
"PC_CPAQ"
526 replace process_comment = "C_ vars ages 11-15 [v1.1.0+]. v1.1.0 could not enter commute duration. Ok v2+. Total duration asked for Acts & Sed." if Q_type == "CPAQ" | Q_type == "C_CPAQ"
527
528 *** SAVING THE FILE ***
529 save "$ROOT_FOLDER/$PROCESSING_F/$RESULTS_FOLDER/$CPAQ_RESULTS_FILE.dta", replace

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