dises baseline household survey data checks

1. create household identification number and name the column hhid
   1. ~~the first four digits are the village number, exampole: 010a~~
   2. ~~the next two digits are the numerical household number 01 – 20, the hh\_numero entry is not unique so these will need to be generated.~~
   3. ~~once the household identification number is generated, create a file with hhid, hh\_phone, hh\_head\_name\_complet, hh\_name\_complet\_resp~~
2. ~~check for missing values~~ **~~[note: skip patterns are noted below in dependencies section]~~**
3. ~~verify responses are reasonable values:~~ 
   1. ~~starting information~~
      1. ~~consent should be 1~~
   2. ~~household roster~~
      1. ~~age between 0 and 90~~
      2. ~~hh\_education\_level should be less than two when age is less than 18~~
      3. ~~hh\_education\_year\_acheive should be less than age~~
      4. ~~hh\_01 should be between 0 and 168 or -9~~
      5. ~~hh\_02 should be between 0 and 168 or -9~~
      6. ~~hh\_08 should be between 0 and 168 or -9~~
      7. ~~hh\_09 should be between 0 and 168 or -9~~
      8. ~~hh\_10 should be between 0 and 168 or -9~~
      9. ~~the sum of all values for each individual’s hh\_13 should be less than hh\_10~~
      10. ~~hh\_21 plus hh\_21\_o should be greater than hh\_18~~
   3. knowledge section
      1. knowledge\_10 must select at least one and no more than seven

preserve

egen knowledge\_10\_count = rowtotal(knowledge\_10\_\*)

keep if knowledge\_10\_count >= 1 & knowledge\_10\_count <= 7

drop knowledge\_10\_count

keep hhid hh\_first\_name\_1 hh\_phone knowledge\_10 issue

if \_n > 0 {

export excel using issue\_ knowledge\_10\_count \_.xlsx, firstrow(variables) replace

}

restore

* + 1. knowledge\_17 should be text

preserve

keep if !missing(knowledge\_17) & length(trim(knowledge\_17)) > 0

generate issue = “missing knowledge\_17”

keep hhid hh\_first\_name\_1 hh\_phone knowledge\_17 issue

if \_n > 0 {

export excel using issue\_household\_knowledge\_17.xlsx, firstrow(variables) replace

}

restore

* 1. agriculture section
     1. \_actif\_number should be between 0 and 100
     2. idk ok i need to see what works better s o don’t j u d g e

forvalues i = 1/55 {

preserve

\*for \_actif

local var1 \_actif\_`i'

keep if `var1' < 0 & `var1' > 100

\*for agri\_

local var2 \_agri\_number\_`i’

keep if `var2' < 0 & `var2' > 100

generate issue\_`var1’ = “missing actif var”

keep hhid hh\_first\_name\_1 hh\_phone `var' issue

if \_n > 0 {

export excel using issue\_household\_`var’, firstrow(variables) replace

}

restore

}

* + 1. \_agri\_number should be between 0 and 100

forvalues i = 1/55 {

preserve

local var \_actif\_`i'

keep if `var' >= 0 & `var' <= 100

generate issue = “missing \_agri\_number”

keep hhid hh\_first\_name\_1 hh\_phone `var' issue

if \_n > 0 {

export excel using issue\_household\_`var’, firstrow(variables) replace

}

restore

}

* + 1. agri\_6\_6 should be between 0 and 50

forvalues i = 1/55 {

preserve

local var agri\_6\_6 \_`i'

keep if `var' < 0 & `var' > 50

generate issue = “missing agri\_6\_6”

keep hhid hh\_first\_name\_1 hh\_phone `var' issue

if \_n > 0 {

export excel using issue\_household\_`var’, firstrow(variables) replace

}

restore

* 1. food consumption section
     1. food01 should be between 0 and 12 or -9

preserve

local var food01 \_`i'

keep if `var' < 0 & `var' > 12 & != -9

generate issue = “missing food01”

keep hhid hh\_first\_name\_1 hh\_phone `var' issue

if \_n > 0 {

export excel using issue\_household\_`var’, firstrow(variables) replace

}

restore

* + 1. food10 should be text

preserve

keep if !missing(food10) & length(trim(food10)) > 0

generate issue = “missing food10”

keep hhid hh\_first\_name\_1 hh\_phone food10 issue

if \_n > 0 {

export excel using issue\_household\_ food10.xlsx, firstrow(variables) replace

}

restore

* 1. household income section
     1. agri\_income\_07 should be between 0 and 500
     2. agri\_income\_08 should be between 0 and 500

foreach var of varlist agri\_income\_07 agri\_income\_08 {

preserve

keep if `var' < 0 & `var' > 500

generate issue = “missing”

keep hhid hh\_first\_name\_1 hh\_phone `var' issue

if \_n > 0 {

export excel using issue\_household\_ `var’.xlsx, firstrow(variables) replace

}

restore

}

* + 1. ~~agri\_income\_12 should be between 0 and 100000000~~
    2. ~~agri\_income\_14 should be between 0 and 100000000~~
    3. ~~agri\_income\_21\_h should be between 0 and 50~~
    4. ~~agri\_income\_21\_f should be between 0 and 50~~

~~foreach var of varlist agri\_income\_21\_h agri\_income\_21\_f {~~

~~preserve~~

~~keep if `var' < 0 & `var' > 50~~

~~generate issue = “missing”~~

~~keep hhid hh\_first\_name\_1 hh\_phone `var' issue~~

~~if \_n > 0 {~~

~~export excel using issue\_household\_ `var’.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

~~}~~

* + 1. ~~agri\_income\_22 should be less than 12~~

~~preserve~~

~~keep if agri\_income\_22 < 0 & agri\_income\_22 > 50~~

~~generate issue = “missing”~~

~~keep hhid hh\_first\_name\_1 hh\_phone agri\_income\_22 issue~~

~~if \_n > 0 {~~

~~export excel using issue\_household\_agri\_income\_22.xlsx, firstrow(variables) replace~~

~~restore~~

* + 1. agri\_income\_23 should be between 0 and 1000000000
    2. ~~agri\_income\_45 should be between 0 and 1000000000~~
    3. ~~agri\_income\_47 should be between 0 and 1000000000~~
    4. agri\_income\_48 should be between 0 and 1000000000
    5. ~~agri\_income\_47\_o should be between 0 and 1000000000~~
    6. ~~agri\_income\_48\_o should be between 0 and 1000000000~~

~~foreach var of varlist agri\_income\_12 agri\_income\_14 agri\_income\_23 agri\_income\_45 agri\_income\_47 agri\_income\_48 agri\_income\_47\_o agri\_income\_48\_o {~~

~~preserve~~

~~keep if `var' < 0 & `var' > 1000000000~~

~~generate issue = “missing”~~

~~keep hhid hh\_first\_name\_1 hh\_phone `var' issue~~

~~if \_n > 0 {~~

~~export excel using issue\_household\_ `var’.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

~~}~~

* 1. ~~public goods games~~
     1. ~~montant\_02 should be less than 1200~~
     2. ~~face\_13 should be less than 1200~~

~~foreach var of varlist montant\_02 face\_13 {~~

~~preserve~~

~~keep if `var' > 12000~~

~~generate issue = “missing”~~

~~keep hhid hh\_first\_name\_1 hh\_phone `var' issue~~

~~if \_n > 0 {~~

~~export excel using issue\_household\_ `var’.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

~~}~~

* + 1. ~~montant\_05 should be less than 1000~~
    2. ~~face\_04 should be less 1000~~

~~foreach var of varlist montant\_05 face\_04 {~~

~~preserve~~

~~keep if `var' > 1000~~

~~generate issue = “missing”~~

~~keep hhid hh\_first\_name\_1 hh\_phone `var' issue~~

~~if \_n > 0 {~~

~~export excel using issue\_household\_ `var’.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

}

* + 1. ~~face\_13 should be less than 1200~~ grouped in with montant

1. questions with dependencies:
   1. starting information
      1. sup\_text should be answered when sup = -777, response should be text

**~~PART 01:~~** ~~preserve~~

~~gen ind\_var = 0~~

~~replace ind\_var = 1 if sup == -777 & (missing(sup\_text) | length(trim(sup\_text)) == 0)~~

~~generate issue = "Missing sup\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~keep village\_select sup full\_name phone\_resp sup\_text ind\_var issue~~

~~if ind\_var == 1 {~~

~~export excel using Issue\_Community\_sup\_text\_noresponse.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

**~~PART 02:~~** ~~preserve~~

~~gen ind\_var = 0~~

~~replace ind\_var = 1 if sup != -777 & (missing(sup\_text) | length(trim(sup\_text)) > 0)~~

~~generate issue = "Missing sup\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~keep village\_select sup full\_name phone\_resp sup\_text ind\_var issue~~

~~if ind\_var == 1 {~~

~~export excel using Issue\_Community\_sup \_noresponse.xlsx, firstrow(variables) replace~~

~~}~~

~~restore~~

* + 1. enqu\_text should be answered when enqu = -777, response should be text
  1. household roster

**~~PART 01:~~**

~~preserve~~

~~gen ind\_var = 0~~

~~replace ind\_var = 1 if enqu == -777 & (missing(enqu\_text) | length(trim(enqu\_text)) == 0)~~

~~generate issue = "Missing enqu\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~keep village\_select sup full\_name phone\_resp enqu enqu\_text ind\_var issue~~

~~if ind\_var == 1 {~~

~~export excel using Issue\_Community\_enqu\_text\_noresponse.xlsx, firstrow(variables) replace~~

~~}~~

~~Restore~~

**~~PART 02:~~** ~~preserve~~

~~gen ind\_var = 0~~

~~replace ind\_var = 1 if enqu != -777 & (missing(enqu\_text) | length(trim(enqu\_text)) > 0)~~

~~generate issue = "Missing enqu\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~keep village\_select sup full\_name phone\_resp enqu enqu\_text ind\_var issue~~

~~if ind\_var == 1 {~~

~~export excel using Issue\_Community\_enqu \_noresponse.xlsx, firstrow(variables) replace~~

~~}~~

~~Restore~~  
~~(TRY THIS)  
preserve~~

~~gen ind\_var = 0~~

~~if enqu == -777 {~~

~~replace ind\_var = 1 if missing(enqu\_text) | length(trim(enqu\_text)) == 0~~

~~generate issue = "Missing enqu\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~export excel using Issue\_Community\_enqu\_text\_noresponse.xlsx, firstrow(variables) replace if ind\_var == 1~~

~~}~~

~~else {~~

~~replace ind\_var = 1 if missing(enqu\_text) | length(trim(enqu\_text)) > 0~~

~~generate issue = "Missing enqu\_text" if ind\_var == 1~~

~~replace issue = "" if ind\_var == 0~~

~~export excel using Issue\_Community\_enqu\_noresponse.xlsx, firstrow(variables) replace if ind\_var == 1~~

~~}~~

~~keep village\_select sup full\_name phone\_resp enqu enqu\_text ind\_var issue~~

~~restore~~

* + 1. ~~hh\_ethnicity\_o should be answered when hh\_ethnicity = 99, response should be text~~
    2. ~~hh\_releation\_with\_o should be answered when hh\_relation\_with = 12 or hh\_relation\_with = 13, response should be text~~
    3. ~~hh\_education\_level\_o should be answered when hh\_education\_level = 99, response should be text~~
    4. ~~hh\_main\_activity\_o should be answered when hh\_main\_activity = 99, response should be text~~
    5. ~~hh\_04 should be answered when hh\_03 = 1, should be between 0 and 168 or -9~~
    6. ~~hh\_05 should be answered when hh\_03 = 1, should be between 0 and 168 or -9~~
    7. ~~hh\_06 should be answered when hh\_03 = 1, should be between 0 and 168 or -9~~
    8. ~~hh\_07 should be answered when hh\_03 = 1, should be between 0 and 168 or -9~~
    9. ~~hh\_11 should be answered when hh\_10 is greater than 0~~
    10. ~~hh\_11\_o should be answered when hh\_11 = 99 , should be text~~
    11. ~~hh\_12 should be answered when hh\_10 is greater than 0~~
    12. ~~hh\_12\_a should be answered when hh\_10 is greater than 0~~
    13. ~~hh\_12\_o should be answered when hh\_12\_a = 1, should be text~~
    14. ~~hh\_13 should be answered when hh\_10 is greater than 0, should be between 0 and 168 or -9~~
    15. ~~hh\_13\_o should be answered when hh\_12\_a = 1, should be between 0 and 168 or -9~~
    16. ~~hh\_14 should be answered when hh\_10 is greater than 0 and hh\_12 = 6 , should be between 0 and 5000000 or -9~~
    17. ~~hh\_15 should be answered when hh\_10 is greater than 0 and hh\_12 = 6~~
    18. ~~hh\_15\_o should be answered when hh\_15 = 99, should be text~~
    19. ~~hh\_16 should be answered when hh\_10 is greater than 0, should be between 0 and 168 or -9~~
    20. ~~hh\_17 should be answered when hh\_10 is greater than 0, should be between 0 and 168 and -9~~
    21. ~~hh\_18 should be answered when hh\_10 is greater than 0, should be between 168 and -9~~
    22. ~~hh\_19 should be answered when hh\_10 is greater than 0 and hh\_18 is greater than 0~~
    23. ~~hh\_19\_o should be answered when hh\_19 = 99, should be text~~
    24. ~~hh\_20 should be answered when hh\_10 is greater than 0 and hh\_18 is greater than 0~~
    25. ~~hh\_20\_a should be answered when hh\_10 is greater than 0 and hh\_18 is greater than 0~~
    26. ~~hh\_20\_o should be answered when hh\_20\_a = 1, should be text~~
    27. ~~hh\_21 should be answered when hh\_10 is greater than 0, should be between 0 and 168 or -9~~
    28. ~~hh\_21\_o should be answered when hh\_20\_a = 1~~
    29. ~~hh\_22 should be answered when hh\_20 = 6 and hh\_10 is greater than 0 and hh\_18 is greater than 0, should be greater than 0 or -9~~
    30. ~~hh\_23 should be answered when hh\_20 = 6 and hh\_10 is greater than 0 and hh\_18 is greater than 0~~
    31. ~~hh\_23\_o should be answered when hh\_23 = 99, should be text~~
    32. the following questions are for ages 4 to 18: hh\_26, hh\_27, hh\_28, hh\_29, hh\_29\_o, hh\_30, hh\_31, hh\_32, hh\_33, hh\_34, hh\_35, hh\_36, hh\_37, hh\_38
        1. ~~hh\_27 should be answered when hh\_26 = 0~~
        2. ~~hh\_28 should be answered when hh\_27 = 1~~
        3. ~~hh\_29 should be answered when hh\_26 = 1~~
        4. ~~hh\_29\_o should be answered when hh\_29 = 99, should be text~~
        5. ~~hh\_30 should be answered when hh\_26 = 1~~
        6. ~~hh\_31 should be answered when hh\_30 = 1~~
        7. ~~hh\_32 should be answered when hh\_26 = 1~~
        8. ~~hh\_33 should be answered when hh\_26 = 1 and hh\_32 = 1~~
        9. ~~hh\_34 should be answered when hh\_32 = 0~~
        10. ~~hh\_35 should be answered when hh\_32 = 1~~
        11. ~~hh\_36 should be answered when hh\_32 = 1~~
        12. ~~hh\_37 should be answered when hh\_32 = 1~~
        13. ~~hh\_38 should be answered when hh\_32 = 1, should be between 0 and 7 or -9~~
  1. knowledge section
     1. knowledge\_02 should be answered when knowledge\_01 = 1, should be text
     2. ~~knowledge\_03 should be answered when knowledge\_01 = 1~~
     3. ~~knowledge\_04 should be answered when knowledge\_03 = 1~~
     4. ~~knowledge\_05 should be answered when knowledge\_04 = 1~~
     5. ~~knowledge\_05\_o should be answered when knowledge\_05 = 1, should be text~~
     6. ~~knowledge\_08 should be answered when knowledge\_07 = 1, should be text~~
     7. ~~knowledge\_09\_o should be answered when knowledge\_09 = 99, should be text~~
     8. ~~knowledge\_10\_o should be answered when knowledge\_10 = 99, should be text~~
     9. ~~knowledge\_12\_o should be answered when knowledge\_12 = 99, should be text~~
     10. ~~knowledge\_16 should be answered when knowledge\_15 = 1~~
     11. ~~knowledge\_19 should be answered when knowledge\_18 = 1~~
     12. ~~knowledge\_19\_o should be answered when knowledge\_19\_o = 99, should be text~~
     13. ~~knowledge\_20 should be answered when knowledge\_18 = 1~~
     14. ~~knowledge\_20\_o should be answered when knowledge\_20 = 99, should be text~~
     15. ~~knowledge\_21 should be answered when knowledge\_18 = 1~~
     16. ~~knowledge\_22 should be answered when knowledge\_18 = 1~~
     17. ~~knowledge\_23 should be answered when knowledge\_18 = 1~~
     18. ~~knowledge\_23\_o should be answered when knowledge\_23 = 99, should be text~~
  2. health section
     1. ~~health\_5\_3 should be answered when health\_5\_2 = 1~~
     2. ~~health\_5\_3\_o should be answered when health\_5\_3 = 99, should be text~~
     3. ~~health\_5\_4 should be answered when health\_5\_2 = 1~~
     4. ~~health\_5\_11 should be answered when health\_5\_10 = 1~~
     5. ~~health\_5\_11\_o should be answered when health\_5\_11 = 99, should be text~~
     6. ~~health\_5\_12 should be answered when health\_5\_10 = 1, should be between 0 and 150~~
     7. ~~health\_5\_14\_a should be answered when health\_5\_13 = 1~~
     8. ~~health\_5\_14\_b should be answered when health\_5\_13 = 1~~
     9. ~~health\_5\_14\_c should be answered when health\_5\_13 = 1~~
  3. agriculture section
     1. actifs\_o should be answered when list\_actifs\_o = 1, should be text
     2. actifs\_o\_int should be answered when list\_actifs\_o = 1, should be between 0 and 100
     3. list\_agri\_equip\_o\_t should be answered when list\_agri\_equip\_o = 1, should be text
     4. list\_agri\_equip\_o\_int should be answered when list\_agri\_equip\_o = 1, should be between 0 and 100
     5. agri\_6\_12 should be answered when agri\_6\_11 = 1
     6. agri\_6\_12\_o should be answered when agri\_6\_12 = 99, should be text
     7. the following questions are relevant when agri\_6\_14 = 1: agri\_6\_15, agri\_6\_16, agri\_6\_17, agri\_6\_18, agri\_6\_19, agri\_6\_20, agri\_6\_20\_o, agri\_6\_21, agri\_6\_22, agri\_6\_23, agri\_6\_23\_o, agri\_6\_24, agri\_6\_25, agri\_6\_26, agri\_6\_26\_o, agri\_6\_27, agri\_6\_28, agri\_6\_29, agri\_6\_29\_o, agri\_6\_30, agri\_6\_31, agri\_6\_31\_o, agri\_6\_32, agri\_6\_33, agri\_6\_33\_o, agri\_6\_34\_comp, agri\_6\_34, agri\_6\_35, agri\_6\_36, agri\_6\_37, agri\_6\_38\_a, agri\_6\_38\_a\_code, agri\_6\_38\_a\_code\_o, agri\_6\_39\_a, agri\_6\_39\_a\_code, agri\_6\_39\_a\_code\_o, agri\_6\_40\_a, agri\_6\_40\_a\_code, agri\_6\_40\_a\_code\_o, agri\_6\_41\_a, agri\_6\_41\_a\_code, agri\_6\_41\_a\_code\_o
        1. agri\_6\_15 should be between 0 and 60
        2. agri\_6\_20\_o should be answered when agri\_6\_20 = 99, should be text
        3. agri\_6\_21 should be between 0 and 20000
        4. agri\_6\_23\_o should be answered when agri\_6\_23 = 99, should be text
        5. agri\_6\_24 should be answered when agri\_6\_23 = 1
        6. agri\_6\_25 should be answered when agri\_6\_23 = 1
        7. agri\_6\_25\_o should be answered when agri\_6\_25 = 99, should be text
        8. agri\_6\_26 should be answered when agri\_6\_23 = 1
        9. agri\_6\_26\_o should be answered when agri\_6\_26 = 99, should be text
        10. agri\_6\_27 should be answered when agri\_6\_23 = 1 and agri\_6\_26 does not equal 6
        11. agri\_6\_28 should be answered when agri\_6\_23 = 1 and agri\_6\_27 does not equal 6
        12. agri\_6\_29 should be answered when agri\_6\_23 = 1 and agri\_6\_28 = 1
        13. agri\_6\_29\_o should be answered when agri\_6\_29 = 99, should be text
        14. agri\_6\_31 should be answered when agri\_6\_30 = 1
        15. agri\_6\_31\_o should be answered when agri\_6\_31 = 99, should be text
        16. agri\_6\_32 should be answered when agri\_6\_31 = 3, should be between 0 and 1000
        17. agri\_6\_33 should be answered when agri\_6\_31 = 3
        18. agri\_6\_33\_o should be answered when agri\_6\_33 = 99, should be text
        19. agri\_6\_35 should be answered when agri\_6\_34 = 1, should be between 0 and 50
        20. agri\_6\_37 should be answered when agri\_6\_36 = 1, should be between 0 and 50
        21. agri\_6\_38 should be between 0 and 1000
        22. agri\_6\_38\_a\_code\_o should be answered when agri\_6\_38\_a\_code = 99, should be text
        23. agri\_6\_38\_a should be between 0 and 1000
        24. agri\_6\_39\_a\_code\_o should be answered when agri\_6\_39\_a\_code = 99, should be text
        25. agri\_6\_40\_a should be between 0 and 1000
        26. agri\_6\_40\_a\_code\_o should be answered when agri\_6\_40\_a\_code = 99, should be text
        27. agri\_6\_40\_a should be between 0 and 1000
        28. agri\_6\_41\_a\_code\_o should be answered when agri\_6\_41\_a\_code = 99, should be text
  4. agriculture production section
     1. for each of the six cereals’s
        1. cereals\_01 should be answered when cereals\_consumption = 1, should be between 0 and 30
        2. cereals\_02 should be answered when cereals\_consumption = 1, should be between 0 and 10000
        3. cereals\_03 should be answered when cereals\_consumption = 1, should be less than cereals\_02
        4. cereals\_04 should be answered when cereals\_consumption = 1, should be less than cereals\_02
        5. cereals\_05 should be answered when cereals\_consumption = 1, should be between 0 and 5000
     2. for each of the six farine\_tubercules’s
        1. farines\_01 should be answered when farines\_tubercules\_consumption = 1, should be between 0 and 30
        2. farines\_02 should be answered when farines\_tubercules\_consumption = 1, should be between 0 and 10000
        3. farines\_03 should be answered when farines\_tubercules\_consumption = 1, should be less than farines\_02
        4. farines\_04 should be answered when farines\_tubercules\_consumption = 1, should be less than farines\_02
        5. farines\_05 should be answered when farines\_tubercules\_consumption = 1, should be between 0 and 5000
     3. for each of the six legume’s
        1. legumes\_01 should be answered when legumes\_consumption = 1, should be between 0 and 30
        2. legumes\_02 should be answered when legumes\_consumption = 1, should be between 0 and 10000
        3. legumes\_03 should be answered when legumes\_consumption = 1, should be less than legumes\_02
        4. legumes\_04 should be answered when legumes\_consumption = 1, should be less than legumes\_02
        5. legumes\_05 should be answered when legumes\_consumption = 1, should be between 0 and 5000
     4. for each of the five leguminsues’s
        1. legumineuses\_01 should be answered when legumineuses\_consumption = 1, should be between 0 and 30
        2. legumineuses\_02 should be answered when legumineuses\_consumption = 1, should be between 0 and 10000
        3. leguminesues\_03 should be answered when legumineuses\_consumption = 1, should be less than legumineuses\_02
        4. leguminesus\_04 should be answered when legumineuses\_consumption = 1, should be less than legumineuses\_02
        5. leguminesus\_05 should be answered when legumineuses\_consumption = 1, should be between 0 and 5000
     5. aquatique\_01 should be answered when acquatique\_consumption = 1, should be between 0 and 30
     6. aquatique\_02 should be answered when acquatique\_consumption = 1, should be between 0 and 10000
     7. aquatique\_03 should be answered when acquatique\_consumption = 1, should be less than aquatique\_02
     8. aquatique\_04 should be answered when acquatique\_consumption = 1, should be less than aquatique\_02
     9. aquatique\_05 should be answered when acquatique\_consumption = 1, should be between 0 and 5000
     10. autre\_culture should be answered when autre\_culture\_yesno = 1, should be text
     11. o\_culture\_01 should be answered when autre\_culture\_yesno = 1, should be between 0 and 30
     12. o\_culture\_02 should be answered when autre\_culture\_yesno = 1, should be between 0 and 10000
     13. o\_culture\_03 should be answered when autre\_culture\_yesno = 1, should be less that o\_culture\_02
     14. o\_culture\_04 should be answered when autre\_culture\_yesno = 1, should be less than o\_culture\_02
     15. o\_culture\_05 should be answered when autre\_culture\_yesno = 1, should be between 0 and 5000
  5. food consumption section
     1. food02 should be answered when food01 is greater than 0
     2. food03 should be answered when food01 is greater than 0
     3. food05 should be answered when food03 = 1
     4. food06 should be answered when food03 = 1
     5. food07 should be answered when food03 = 1
     6. food08 should be answered when food03 = 1
     7. food09 should be answered when food03 = 1
     8. food11 should be answered when food01 is greater than 0
     9. food12 should be answered when food01 is greater than 0
  6. household income section
     1. agri\_income\_02 should be answered when agri\_income\_01 = 1
     2. agri\_income\_02\_o should be answered when agri\_income\_02 = 3, should be text
     3. agri\_income\_03 should be answered when agri\_income\_01 = 1, should be between 0 and 365
     4. agri\_income\_04 should be answered when agri\_income\_01 = 1
     5. agri\_income\_05 should be answered when agri\_income\_01 = 1, should be between 0 and 10000000
     6. agri\_income\_06 should be answered when agri\_income\_01 = 1, should be between 0 and 10000000
     7. species\_o when species\_autre = 1, should be text
     8. agri\_income\_09 should be answered when agri\_income\_08 is greater than 0
     9. agri\_income\_09\_o should be answered when agri\_income\_09 = 7, text
     10. agri\_income\_10 should be answered when agri\_income\_08 is greater than 0, should be between 0 and 1000000
     11. agri\_income\_07\_o should be answered when species\_autre = 1, should be between 0 and 500
     12. agri\_income\_08\_o should be answered when species\_autre = 1, should be between 0 and 500
     13. agri\_income\_09\_o\_o should be answered when agri\_income\_08\_o is greater than 0
     14. agri\_income\_09\_o\_o\_o should be answered when agri\_income\_09\_o\_o = 7, should be text
     15. agri\_income\_10\_o should be answered when agri\_income\_08\_o is greater than 0, should be between 0 and 1000000
     16. animal\_sales\_t should be answered when animal\_sales\_o = 1, should be text
     17. agri\_income\_13\_autre should be answered when agri\_income\_13 = 4, should be text
     18. agri\_income\_11\_o should be answered when animal\_sales\_o = 1, should be between 0 and 500
     19. agri\_income\_12\_o should be answered when animal\_sales\_o = 1, should be between 0 and 1000000000
     20. agri\_income\_13\_o should be answered when animal\_sales\_o = 1
     21. agri\_income\_14\_ o should be answered animal\_sales\_o = 1, should be between 0 and 1000000000
     22. agri\_income\_13\_o\_t should be answered when agri\_income\_13\_o = 4, should be text
     23. agri\_income\_16 should be answered when agri\_income\_15 = 1, should be between 0 and 50
     24. agri\_income\_18 should be answered when agri\_income\_15 = 1
     25. agri\_income\_18\_o should be answered when agri\_income\_18 = 3, should be text
     26. agri\_income\_19 should be answered when agri\_income\_15 = 1, should be between 0 and 100000000
     27. agri\_income\_20\_o should be answered when agri\_income\_20\_t = 1, should be text
     28. agri\_income\_21\_h\_o should be answered when agri\_income\_20\_t = 1, should be between 0 and 50
     29. agri\_income\_21\_f\_o should be answered when agri\_income\_20\_t = 1, should be between 0 and 50
     30. agri\_income\_22\_o should be answered when agri\_income\_20\_t = 1, should be between 0 and 12
     31. agri\_income\_23\_o should be answered when agri\_income\_20\_t = 1, should be between 0 and 1000000000
     32. agri\_income\_26 should be answered when agri\_income\_25 = 1, should be between 0 and 50
     33. agri\_income\_28 should be answered when agri\_income\_25 = 1
     34. agri\_income\_28\_o should be answered when agri\_income\_28 = 3, should be text
     35. agri\_income\_29 should be answered when agri\_income\_25 = 1, should be between 0 and 10000000
     36. agri\_income\_31 should be answered when agri\_income\_30 = 1
     37. agri\_income\_31\_o should be answered when agri\_income\_31 = 6, should be text
     38. agri\_income\_32 should be answered when agri\_income\_30 = 1
     39. agri\_income\_33 should be answered when agri\_income\_30 = 1 and agri\_income\_32 = 1, should be between 0 and 100000000
     40. agri\_income\_name should be answered when agri\_income\_34 = 1
     41. agri\_income\_35 should be answered when agri\_income\_34 = 1
     42. agri\_income\_36 should be answered when agri\_income\_34 = 1, should be between 0 and 100000000
     43. agri\_income\_37 should be answered when agri\_income\_34 = 1, should be text
     44. agri\_income\_38 should be answered when agri\_income\_34 = 1, should be less than agri\_income\_36
     45. agri\_income\_39 should be answered when agri\_income\_34 = 1, should be less than agri\_income\_36, agri\_income\_36 – agri\_income\_38 should be greater than agri\_income\_39
     46. agri\_loan\_name should be answered when agri\_income\_40 = 1
     47. agri\_income\_41 should be answered when agri\_income\_40 = 1, should between 0 and 10000000
     48. agri\_income\_42 should be answered when agri\_income\_40 = 1, should be less than agri\_income\_41
     49. agri\_income\_43 should be answered when agri\_income\_40 = 1, should be less than agri\_income\_42
     50. agri\_income\_46\_o should be answered when agri\_income\_46 = 99 – error? should be 4, should be text
     51. expenses\_goods\_o should be answered when expenses\_goods\_t = 1
  7. standard of living section
     1. living\_01\_o should be answered when living\_01 = 99, should be text
     2. living\_03 should be answered when living\_02 = 1
     3. living\_03\_o should be answered when living\_03 = 99, should be text
     4. living\_04\_o should be answered when living\_04 = 99, should be text
     5. living\_05\_o should be answered when living\_05 = 99, should be text
     6. living\_06\_o should be answered when living\_06 = 99, should be text
  8. public goods games
     1. montant\_07 should be answered when montant\_05 is less than 200
     2. montant\_08 should be answered when montant\_05 is less than 200
     3. face\_06 should be answered when face\_04 is less than 200
     4. face\_07 should be answered when face\_04 is less than 200
  9. enumeration observations
     1. enum\_02 should be answered when enum\_01 = 1, should be between 0 and 15
     2. enum\_03\_o should be answered when enum\_03 = 99, should be text
     3. enum\_04\_o should be answered when enum\_04 = 99, should be text
     4. enum\_05\_o should be answered when enum\_05 = 99, should be text
     5. eum\_07 should be answered when enum\_06 = 3 or enum\_06 = 4 or enum\_07 = 5, should be text