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Anonymization Procedures

NEPS Starting Cohort 6 — Adults
Adult Education and Lifelong Learning

Scientific Use File Version 17.0.0

Research Data Documentation

The NEPS *Research Data Documentation Series* presents resources prepared to support the work with data from the National Educational Panel Study (NEPS).

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1 Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimization techniques applied before dissemination to the Scientific Use File (SUF) of Starting Cohort (SC) 6, version 17.0.0 (doi:10.5157/NEPS:SC6:17.0.0). For a quick reference to all variables and datafiles which are affected in detail and on which level you will find the full information, please skip forward to appendix section A.1. If you have inquiries or need further information not covered in this document please feel free to contact the research data center at fdz@lifbi.de. Please note the following general remarks:

- in all tables, the anonymization suffix (_O, _R, _D) was removed from the variable name to enhance readability and remove duplicates. To find a specific variable in the data file, add the corresponding suffix or use a wildcard.
- to ensure a data-consistent documentation, all tables in this document have been produced on basis of the SUF data. Variable labels in the data have been cut off at 80 characters, which inherits to this documentation.
- as additional documentation, a *Semantic Data Structure File* is available. This is the complete SUF where all cases have been removed. Feel free to use this as a first overview to the data in cases you do not have access to the real data (e.g. you are interested in data files which are available OnSite only). You are well advised to use this preparing your syntax *before* initiating your travel to our OnSite facility. You find it freely available on the documentation page to this SUF:

www.neps-data.de > Data Center > Data and Documentation > Starting Cohort Adults > Documentation

1.1 Specifications

To ensure the best possible confidentiality protection of individuals and individual micro data, the National Educational Panel Study complies with strict international standards. To achieve this, a *portfolio approach*, based on the ideas of Lane et al., 2008, has been established. This approach interlocks data security mechanism on five different levels, while the actual data modification (i.e. anonymization) is one of them. For further information, see the article by Koberg, 2016. Operationalizing this modification procedure, it can be abstracted to the following two criteria:

- the disseminated data was transferred to so called *de facto anonymous data*. Identifiable information is coarsened or cut off and kept securely to minimize the risk of statistical disclosure.

- the use of data is strictly confidential and for statistical purposes only. The closed contract only grants access to members of the scientific community. This contract has a vast amount of legal stipulations, one of them being a large fine which applies for the realization of re-identification on purpose. Therefore, the disseminated data is highly protected by law and allows a more flexible range of available data.

To pick up the latter, the NEPS has made a huge effort regarding legal regulations to offer as much analysis power of data as possible. This *paradigm of information esteem* reveals the fact that conducted measures of statistical disclosure control are few. Also, if there really was a need for modification, only non-perturbative methods were used.

1.2 Onion-shaped model

The NEPS grants the user three different modes of data access: (1) *OnSite*, which stands for the opportunity to use the secured infrastructure made available at the LfBi in Bamberg, (2) *RemoteNEPS*, which is a progressive remote access technology providing a virtual desktop, and finally (3) *Download*, indicating the possibility to fetch data via a secure web portal.

These given access modes have been originated to allow anonymization routines for a subtle differentiation of information. The three resulting levels of anonymization define as follows:

- data provided OnSite is generally not further anonymized. However, even those data was rendered *de facto anonymous*, for no disclosure risk to persist. All information contained remains completely sane. Although users have to deal with limited possibilities of data access (i.e. supervised import and export of their results), they are free to work with all data available in a secure environment.
- access via RemoteNEPS is considered equivalent to OnSite, hence most of the data stays complete.
- as Download is assumed to be the most hazardous access mode¹, some more anonymization techniques are done to the dataset.

Obviously this approach results in three different versions of all involved datasets. To enable a consistent structure, these data files always contain the entire set of variables; it is their content which differs through the three levels.

As normally there is no need to resign aggregated variables in the higher levels (i.e. OnSite or RemoteNEPS), those are already defined as a surplus to the original variable in the OnSite-version. Stepping down to RemoteNEPS, the content of related variables too sensitive for this level is overwritten with an exclusive missing code – an operation which we define as *purging*. Note that system missing values are not affected, allowing the user to differ between value existence and nonexistence. This still is a valuable additional information. The same logic applies to the transition from RemoteNEPS to Download.

¹ 'hazardous' in terms of: the downloaded content is no longer under physical control of the LfBi

1 Preamble

While there is no explicit documentation to this fact, it should remain clear that this procedure accumulates, i.e. purged content under RemoteNEPS is therefore neither included in RemoteNEPS nor in Download.

This *onion-shaped model* provides both ease of (1) use of different sensitivity models (e.g. preparing an analysis using the Download dataset and conducting it afterwards using the OnSite-data) and (2) documentation, for the subject of documentation is the most sensitive level (OnSite), with RemoteNEPS and Download levels being a subset of these data.

The fourth layer *master* depicted below contains every material which is needed during data processing by the NEPS, but is not meant for the scientific community to be usable.

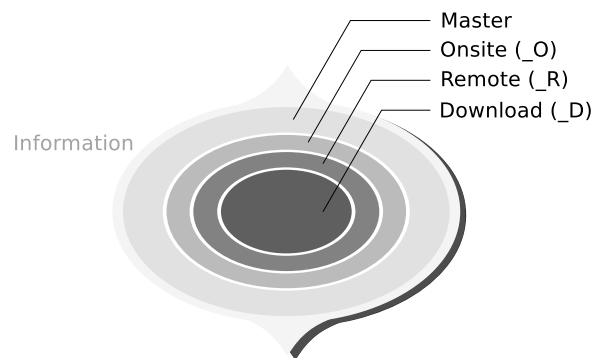


Figure 1: Onion-shaped model defining the different anonymization levels

Technically, this model realizes in a single letter suffixed to dataset and variable names. All datasets available OnSite only are marked with an additional **_O**, those available via RemoteNEPS with **_R** and Download files with **_D**. The same procedure applies when it comes to variable differentiation. A variable which is available unaltered OnSite only is suffixed with **_O**. In RemoteNEPS-access or Download, this variable is still present but purged. If there is an alternate version (e.g. with coarsened content) for RemoteNEPS (suffix **_R**) or Download (suffix **_D**), those can be used. As said before, these are already integrated in the OnSite version. See section 3 for some examples (especially for a practical explanation what is meant by *purging* here).

2 Conducted measures

Keeping the usability and the paradigm of information esteem in mind, only very few alterations are actually done to the dataset. Please note that all information is still available somewhere and that only RemoteNEPS and (mainly) the Download version are constraint in this matter. In fact, in this SUF, only 191 out of 3971 variables are modified in some way.

The following table gives an explanatory overview of all measures conducted. The remainder of this section gives a more detailed description of those topics.

Table 1: Availability of sensitive data

Topic	OnSite	RemoteNEPS	Download
String variables	anonymized	n/a	n/a
International ¹	full data	full data	collapsed
Regional (National)	restricted	restricted	restricted
Institutional context	full data	anonymized	n/a
Macro indicators	accessible	n/a	n/a
Others	full data	full data	aggregated

¹ international geographical information (e.g., nation states, national languages)

2.1 String variables

All variables containing actual text and whose type is therefore string are purged in the RemoteNEPS version. The information remains accessible OnSite. However, you should be aware that in the majority of cases, text entries have been recoded into derived variables (usually suffixed with _g1, _g2, etc.), which contain the information collected. Those variables are available in all three levels, only the actual text entry is available OnSite only. The text entries have been reviewed by staff to ensure that absolutely no reidentificational material is included. To indicate the availability of those variables OnSite only, the variable names have been suffixed with an additional _0.

Table 2: All string variables; those are only available onsite

file	variable	label
pTarget	t272800	Trade fair/congress: content
pTarget	t272801	Specialist lecture: content

(...)

2 Conducted measures

Table 2: (continued)

file	variable	label
pTarget	t272804	Self-study program: content
pTarget	t272805	Online learning: content
pTarget	t272806	Counseling services: content
pTarget	t406001	Other reason for migration Immigration status other
pTarget	t43202o	Characteristics of external ascription: other (open)
pTarget	t66507a	Goal orientation: work/health
pTarget	t731302	other school-leaving qualification mother
pTarget	t731304	Other professional qualification mother (open)
pTarget	t731305	other educational institution Mother (open)
pTarget	t731307	Other higher education qualification mother (open)
pTarget	t731309	other institution awarding higher education degrees Mother (open)
pTarget	t731352	other school-leaving qualification father
pTarget	t731354	Other professional qualification father (open)
pTarget	t731355	other educational institution Father (open)
pTarget	t731357	Other higher education qualification father (open)
pTarget	t731359	other institution awarding higher education degrees Father (open)
pTarget	th18021	Other learning material: open
pTarget	th18021_v1	Other learning material: open (temp. drop-out)
pTarget	th18047	Changed learning opportunities during school closure: other open
pTarget	th18047_v1	Changed learning opport. during school closure: other open (temp. drop-out)
pTarget	th18051	Information higher education institution: open
pTarget	th18051_v1	Information higher education institution: open (temp. drop-out)
pTarget	th24539	Text Selected occupation
pTarget	th32217	Other partial retirement model
pTarget	th32343	Other professional qualification Partner (open) (LAT)
pTarget	th32344	Other educational institution Partner (open) (LAT)
pTarget	th32345	Other higher education qualification Partner (open) (LAT)
pTarget	th32347	other institution awarding higher education degrees Partner (open) (LAT)
pTarget	th34398	Main employment episode
spChild	ts33211	Other employment status child (open)
spChild	ts33213	other type of school child
spChild	ts33215	other school-leaving qualification child
spChild	ts33217	Other training child
spChild	ts33219	other study institution child
spChild	ts33221	Other professional qualification child (open)
spChild	ts33222	Other educational institution Child (open)
spChild	ts33224	Other higher education qualification child (open)
spChild	ts33226	Other institution awarding higher education degrees child (open)

(...)

2 Conducted measures

Table 2: (continued)

file	variable	label
spCourses	t272044_w1	Type certificate
spCourses	t272044_w2	Type certificate
spCourses	t272044_w3	Type certificate
spCourses	t272044_w4	Type certificate
spCourses	t272044_w5	Type certificate
spFurtherEdu1	t272044	Type certificate
spFurtherEdu2	t272044	Type certificate
spGap	ts29102	other activity
spMilitary	ts21401	Other voluntary service (25108a)
spPartner	ts31213	other school-leaving qualification partner
spPartner	ts31215	Other professional qualification partner (open)
spPartner	ts31216	Other educational institution partner (open)
spPartner	ts31218	Other higher education qualification partner (open)
spPartner	ts31220	Other institution awarding higher education degree partner (open)
spSchool	t724806	1st Abitur subject, open
spSchool	t724807	2nd Abitur subject, open
spSchool	t724808	3rd Abitur subject, open
spSchool	t724809	4th Abitur subject, open
spSchool	t724810	5th Abitur subject, open
spSchool	ts11206	other type of school
spSchool	ts11212	other school-leaving qualification
spSchool	ts11217	other intended school-leaving qualification
spSchoolExtExam	ts11305	Awarded other school-leaving qualification
spVocExtExam	ts15305	Other external examination qualification
spVocTrain	ts15202	other training
spVocTrain	ts15220	other vocational qualification
spVocTrain	ts15222	other vocational qualification (open)
spVolunteerWork	t262950	Content Volunteering 1
spVolunteerWork	t262951	Content Volunteering 2
spVolunteerWork	t262952	Concrete activity (open)
spVolunteerWork	t262954	Volunteering area (open)
xTargetCORONA	th80002	Content media - digital
xTargetCORONA	tm00040	Childcare situation NEPS child - open
xTargetCORONA	tm00048	Childcare situation - open
xTargetCORONA	tm00056	Other learning material: open
xTargetCORONA	tm00085	Learning materials - open
xTargetCORONA	tm00097	Changed learning opportunities during school closure - other, open
xTargetCORONA	tm00109	Offered courses - other, open
xTargetCORONA	tm00115	Information higher education institution, open
xTargetCORONA	tm00140	Chances Future

2 Conducted measures

2.2 International: countries, languages, and nationalities

All information corresponding to international localization, nationality or languages is completely available only OnSite or via RemoteNEPS. Variables comprised in the Download SUF are aggregated into larger categories – mainly allocating continents and, in detail, states in Europe. For a complete recoding map of all countries/languages/nationalities, see appendix section A.2. This recoding rule was initially based on the methods used for the IAB ALWA study (Antoni et al., 2011) and the recommendations given by Müller et al., 1991. It has been updated and adjusted to better serve the data user's needs. Please note that this aggregated version is generated not during the anonymization process, but as an additional derived variable. Therefore, you do not find a variable suffixed _D, but two derived variables (suffixed _g1 and _g2), where only the first has an anonymization suffix (i.e. _g1R), indicating that the full information is available in RemoteNEPS only.

Table 3: All variables which are affected by country/language/nationality aggregation

file	variable	label
pTarget	t32601a_g1	Position generator: Country Nurse
pTarget	t32601b_g1	Position generator: Country Engineer
pTarget	t32601c_g1	Position generator: Country Warehouse/transport worker
pTarget	t32601d_g1	Position generator: Country Social worker
pTarget	t32601e_g1	Position generator: Country Salesperson
pTarget	t32601f_g1	Position generator: Country Police officer
pTarget	t32601g_g1	Position generator: Country Physician
pTarget	t32601h_g1	Position generator: Country Banker
pTarget	t32601k_g1	Position generator: Country Motor mechanic
pTarget	t32601l_g1	Position generator: Country Legal practitioner
pTarget	t32601m_g1	Position generator: Country Optician
pTarget	t32601n_g1	Position generator: Country Translator
pTarget	t32601o_g1	Position generator: Country Teacher at elementary school/Hauptschule/Realschule
pTarget	t405010_g1	Country of place of birth
pTarget	t405070_g1	Country of birth, mother
pTarget	t405100_g1	Country of birth father
pTarget	t405220_g1	Country of birth mother's mother
pTarget	t405230_g1	Country of birth mother's father
pTarget	t405240_g1	Country of birth father's mother
pTarget	t405250_g1	Country of birth father's father
pTarget	t407010_g1	Country of birth Partner
pTarget	t407070_g1	Country of birth Mother Partner
pTarget	t407100_g1	Country of birth Father Partner
pTarget	t431010_g1	Country of destination
pTarget	t751004_g1	Country of residence (abroad)
pTarget	t751015_g1	Country of secondary residence (abroad)

(...)

Table 3: (continued)

file	variable	label
spEmp	ts23239_g1	Country of workplace
spPartner	ts31205_g1	Country of birth Partner
spPartner	ts31208_g1	Country of birth Father Partner
spPartner	ts31210_g1	Country of birth Mother Partner
spResidence	th21103_g1	Country of place of residence
spSchool	ts1120s_g1	Country of school
spSchoolExtExam	ts11301_g1	Country of awarded school-leaving qualification
spVocExtExam	ts15303_g1	Country of external examination
spVocTrain	ts1521s_g1	Country of vocational training
pTarget	t412141_g1	Interaction language - best friend (ISO 639.2)
pTarget	t412171_g1	Language use - colleagues (ISO 639.2)
pTarget	t413000_g1	1st mother tongue (ISO 639.2)
pTarget	t413010_g1	2nd mother tongue (ISO 639.2)
pTarget	t413060_g1	Language of origin (ISO 639.2)
pTarget	t413100_g1	First language/language of origin Mother (ISO 639.2)
pTarget	t413120_g1	First language/language of origin Father (ISO 639.2)
pTarget	t413501_g1	Interaction language - household (ISO 639.2)
pTarget	t418001_g1	Language Reading - profession (ISO 639.2)
pTarget	t418011_g1	Language Reading - free time (ISO 639.2)
pTarget	t406100_g1	other nationality

2.3 Regional localization

For all variables which register a regional position – such as places of birth, work, school, or residence – the following variables have been generated (if possible):

- an indicator for West Germany and East Germany (including Berlin)
- the federal state for this location,
- the administrative region, and
- the administrative district,

the latter two only available in RemoteNEPS.

Regional localization more detailed is not directly available. If you have need to merge data using a regional key below the available level, please check out the corresponding website at:

→ www.neps-data.de > Data Center > Overview and Assistance > Regional Data

or contact the LIfBi RDC (fdz@lifbi.de), which may deal with this matter for you.

2 Conducted measures

Table 4: All regional variables which are only available in RemoteNEPS or OnSite.

file	variable	label
pTarget	t700101_g3	Municipality of birth (RS region)
pTarget	t700101_g4	Municipality of birth (RS administrative district)
pTarget	t751001_g3	Municipality of residence (administrative district)
pTarget	t751001_g4	Municipality of residence (district)
pTarget	t751011_g3	Municipality secondary residence (RS region)
pTarget	t751011_g4	Municipality secondary residence (RS administrative district)
spEmp	ts23237_g3	Location of workplace (RS region)
spEmp	ts23237_g4	Location of workplace (RS administrative district)
spResidence	th21111_g3	Place of residence (RS region)
spResidence	th21111_g4	Place of residence (RS administrative district)
spSchool	ts11202_g3	Municipality of school (RS region)
spSchool	ts11202_g4	Municipality of school (RS administrative district)
spVocPrep	ts13105_g2	Municipality of measure (federal state)
spVocPrep	ts13105_g3	Municipality of measure (RS region)
spVocPrep	ts13105_g4	Municipality of measure (RS administrative district)
spVocTrain	ts15207_g3	Municipality of training facility (RS region)
spVocTrain	ts15207_g4	Municipality of training facility (RS administrative district)

2.4 Macro indicators

Additional information including structural topography and macroeconomic measures was collected. You find those available OnSite only. The following data is available:

- Microm data, describing the surrounding of the targets residence
- RegioInfas (infas geodaten) data, describing the surrounding of the targets residence

2.5 Other variables

All other variables affected by anonymization and not classifiable in the previous groups are listed below. In the first table (table 5), you find all variables which were aggregated in the Download-SUF. An additional table below each entry displays the values of the variable, both as found in RemoteNEPS (if table column is empty, the variable is numeric and does not have a value label scheme) and in Download.

The second table (table 6) contains all variables which are not aggregated, but purged completely in the Download-version, that is, there is no aggregated version.

2 Conducted measures

Table 5: Other variables which were aggregated in the Download-SUF (aggregation is also stated)

[file] variable: label

[pTarget] t731406: Number of mother's employees (categorized)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pTarget] t731406_ha: Number of mother's employees (harmonized, categorized)

RemoteNEPS		Download
Fewer than 5 persons	1	less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 100 persons	4	20 and more
100 to less than 200 persons	5	
200 to less than 2.000 persons	6	
2.000 persons and more	7	

[pTarget] t731406_v1: Number of mother's employees (categorized)

RemoteNEPS		Download
Fewer than 5 persons	1	less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 100 persons	4	20 and more
100 to less than 200 persons	5	
200 to less than 2.000 persons	6	
2.000 persons and more	7	

[pTarget] t731456: Number of father's employees (categorized)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

(...)

Table 5: (continued)

[file] variable: label

[pTarget] t731456_ha: Number of father's employees (harmonized, categorized)

RemoteNEPS		Download
1 to less than 5	1	less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pTarget] t731456_v1: Number of father's employees (categorized)

RemoteNEPS		Download
Fewer than 5 persons	1	less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 100 persons	4	20 and more
100 to less than 200 persons	5	
200 to less than 2.000 persons	6	
2.000 persons and more	7	

[pTarget] th32355: Number of employees Partner (LAT) (categorized)

RemoteNEPS		Download
1 to less than 5 persons	1	1 to less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 50 persons	4	20 and more
50 to less than 100 persons	5	
100 to less than 200 persons	6	
200 to less than 250 persons	7	
250 to less than 500 persons	8	
500 to less than 1,000 persons	9	
1.000 to less than 2,000 persons	10	
2.000 persons and more	11	

(...)

Table 5: (continued)

[file] variable: label

[spEmp] ts23210: Number of employees (categorized)

RemoteNEPS		Download
less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 to less than 50
50 to less than 100	5	50 and more
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[spEmp] ts23210_ha: Number of employees (harmonized, categorized)

RemoteNEPS		Download
less than 5 persons	1	1 to less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 100 persons	4	20 and more
100 to less than 200 persons	5	
200 to less than 2.000 persons	6	
2.000 persons and more	7	

[spEmp] ts23210_v1: Number of employees (wave 1, categorized)

RemoteNEPS		Download
less than 5 persons	1	1 to less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 100 persons	4	20 and more
100 to less than 200 persons	5	
200 to less than 2.000 persons	6	
2.000 persons and more	7	

[spPartner] ts31229: Number of employees partner (categorized)

RemoteNEPS		Download
1 to less than 5 persons	1	less than 5
5 to less than 10 persons	2	5 to less than 10
10 to less than 20 persons	3	10 to less than 20
20 to less than 50 persons	4	20 to less than 50
50 to less than 100 persons	5	50 and more
100 to less than 200 persons	6	
200 to less than 250 persons	7	
250 to less than 500 persons	8	
500 to less than 1,000 persons	9	
1.000 to less than 2,000 persons	10	
2.000 persons and more	11	

2 Conducted measures

Table 6: Other variables which were purged in the Download-SUF

file	variable	label
FurtherEducation	tx28202	Course content
pTarget	t435030_g1	"Religion & religiousness: other religious community"
pTarget	t700101_g8	Municipality of birth (East/West Berlin)
pTarget	t751001_g8	Municipality of residence (East/West Berlin)
pTarget	t751011_g8	Municipality secondary residence (East/West Berlin)
spCourses	t272011_w1	Course content
spCourses	t272011_w2	Course content
spCourses	t272011_w3	Course content
spCourses	t272011_w4	Course content
spCourses	t272011_w5	Course content
spEmp	ts23237_g8	Location of workplace (East/West Berlin)
spFurtherEdu1	t272000	Course content
spResidence	th21111_g8	Place of residence (East/West Berlin)
spSchool	ts11202_g8	Municipality of school (East/West Berlin)
spVocPrep	ts13105_g8	Municipality of measure (East/West Berlin)
spVocTrain	ts15207_g8	Municipality of training facility (East/West Berlin)
xTargetCORONA	tm00002	Impact: coronavirus infection - myself
xTargetCORONA	tm00003	Impact: coronavirus infection - household
xTargetCORONA	tm00004	Impact: coronavirus infection - relative
xTargetCORONA	tm00005	Impact: coronavirus infection - friend/acquaintance
xTargetCORONA	tm00006	Impact: coronavirus infection - colleague
xTargetCORONA	tm00008	Impact: quarantine - myself
xTargetCORONA	tm00009	Impact: quarantine - household
xTargetCORONA	tm00010	Impact: quarantine - relative
xTargetCORONA	tm00011	Impact: quarantine - friend/acquaintance
xTargetCORONA	tm00012	Impact: quarantine - colleague

3 Examples

The following examples compare variables from some selected topics. On the left side, you see these variables as they can be found in the RemoteNEPS-SUF (i.e., this is the variant of the variable which contains the full information). On the right side, you find the same variables, but from the Download-version of the SUF, that is, the aggregated or purged variant of the variable. This illustrates the anonymization applied.

3 Examples

3.1 Number of employees

The first example is a variable collected during the interview of Starting Cohort 6 (Adults). The question further investigates the occupational periphery of employers, while here, this employer is the mother of the respondent. On the left, you see the complete information as found in the RemoteNEPS-SUF. This variable is collected using seven classes, where the last four are sparsely filled (variable t731406_R, table on the lower left). Because of this, those four codes have been recoded into one category («20 and more») and a new variable is generated (t731406_D, upper left). In the Download-SUF, you find this aggregated variable unaltered (upper right). The variable t731406_R rich in content was purged, though. You see that all meaningful codes have been recoded to »-53 Anonymized«. Note that the missing code »-54 Missing by design« is transported to the Download-SUF unmodified, so you already can derive the actual *statistical power* of this variable.

RemoteNEPS	Download																																																																																										
SC6_pTarget_R_5-1-0.dta (NEPS SUF, SC6 5.1.0 (remote); doi:10.5157/NEPS:SC6:5.1.0) t731406_D -- Number of mother's employees (categorized) <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid -98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 none</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 and more</td><td>28</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table> t731406_R -- Number of mother's employees <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid -98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 None</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 to 49</td><td>21</td></tr> <tr><td>5 50 to 99</td><td>3</td></tr> <tr><td>6 100 to 199</td><td>3</td></tr> <tr><td>7 200 to 249</td><td>1</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table>		Freq.	Valid -98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 none	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 and more	28	Total	37575	Missing .	15982	Total	53557		Freq.	Valid -98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 None	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 to 49	21	5 50 to 99	3	6 100 to 199	3	7 200 to 249	1	Total	37575	Missing .	15982	Total	53557	SC6_pTarget_D_5-1-0.dta (NEPS SUF, SC6 5.1.0 (download); doi:10.5157/NEPS:SC6:5.1.0) t731406_D -- Number of mother's employees (categorized) <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid -98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 none</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 and more</td><td>28</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table> t731406_R -- Number of mother's employees <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid -54 Missing by design</td><td>36700</td></tr> <tr><td>-53 Anonymized</td><td>875</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table>		Freq.	Valid -98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 none	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 and more	28	Total	37575	Missing .	15982	Total	53557		Freq.	Valid -54 Missing by design	36700	-53 Anonymized	875	Total	37575	Missing .	15982	Total	53557
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3 Examples

3.2 Countries (aggregated list)

To illustrate the anonymization of countries, first have a look at this variable from Starting Cohort 6 (Adults). The information (*»respondent's country of birth«*) was surveyed during the interview. The collected information was recoded during data processing to different derived variables. The first of those is variable `t405010_g1R`, which contains the complete list of countries (lower left, output is shortened to enhance readability). Also, a second variable `t405010_g2` was generated, using a more coarse list. This is helpful if some information was collected, but it is too inaccurate to identify the country (e.g., if someone states he was born in North America, you do not know if he meant U.S. or Canada). This second variable is transported to the Download-SUF unaltered (upper right), which means it in some way represents the anonymized version. The first variable `t405010_g1R` with the full information is purged in the Download-SUF.

RemoteNEPS		Download	
SC6_pTarget_R_5-1-0.dta (NEPS SUF, SC6 5.1.0 (remote); doi:10.5157/NEPS:SC6:5.1.0)		SC6_pTarget_D_5-1-0.dta (NEPS SUF, SC6 5.1.0 (download); doi:10.5157/NEPS:SC6:5.1.0)	
t405010_g2 -- Country of birthplace (categorized)		t405010_g2 -- Country of birthplace (categorized)	
-----		-----	
	Freq.		Freq.
-----		-----	
Valid		Valid	
-97 Refused	2	-97 Refused	2
-54 Missing by design	36417	-54 Missing by design	36417
-20 Foreign, but not codeable	5	-20 Foreign, but not codeable	5
1 Germany	15388	1 Germany	15388
2 Italy	52	2 Italy	52
3 Poland	244	3 Poland	244
4 Romania	98	4 Romania	98
5 Turkey	182	5 Turkey	182
6 Former Yugoslavia	113	6 Former Yugoslavia	113
7 Former Soviet Union	522	7 Former Soviet Union	522
8 Central and South America, Caribbean	42	8 Central and South America, Caribbean	42
9 Northern and Western Europe	154	9 Northern and Western Europe	154
10 North America	33	10 North America	33
12 Other Middle East and North Africa	73	12 Other Middle East and North Africa	73
13 Other Africa	30	13 Other Africa	30
14 Other Asia	74	14 Other Asia	74
15 Other Central and Eastern Europe	84	15 Other Central and Eastern Europe	84
16 Other Southern Europe	44	16 Other Southern Europe	44
Total	53557	Total	53557
-----		-----	
t405010_g1R -- Country of place of birth		t405010_g1R -- Country of place of birth	
-----		-----	
	Freq.		Freq.
-----		-----	
Valid		Valid	
-97 Refused	2	-54 Missing by design	36417
-54 Missing by design	36417	-53 Anonymized	17140
-20 Foreign, but not codeable	5	Total	53557
0 germany	15388	-----	
120 yugoslavia	30		
121 albania	4		
122 bosnia and herzegovina	22		
124 belgium	5		
:	:		
477 uzbekistan	6		
479 china	7		
482 malaysia	2		
499 other asia	1		
Total	53557		

3.3 Countries (binary variable)

In school cohorts, an aggregation of countries is coarsened to the binary information German/Non-German. To illustrate this, have a look at variables from Starting Cohort 2 (Kindergarten). The information (*»country of birth target child«*) was surveyed during the interview using a two-step procedure: first, the respondent is asked if the child was born in Germany or abroad (variable p406000, top left). This variable is not subject to anonymization and therefore does not have a suffix and is equally existent in both SUF-versions. If the child was born abroad, a second question regarding the specific country followed (variable p406010_g1R, lower left, output is reduced to enhance readability). This second question is purged in the Download-SUF (lower right). There is no need to generate an additional anonymized version of this second question, as the information is already present in the first shown variable (p406000).

RemoteNEPS	Download																																																																								
SC2_pParent_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0) p406000 -- Target child born in Germany? <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> p406010_g1R -- Country of birth target child <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>-20 Abroad, but not codeable</td><td>1</td></tr> <tr><td>0 germany</td><td>7658</td></tr> <tr><td>124 belgium</td><td>2</td></tr> <tr><td>125 bulgaria</td><td>5</td></tr> <tr><td>:</td><td>:</td></tr> <tr><td>475 syrian arab republic</td><td>2</td></tr> <tr><td>476 thailand</td><td>2</td></tr> <tr><td>479 china</td><td>4</td></tr> <tr><td>536 new zealand</td><td>1</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-98 Don't know	1	-20 Abroad, but not codeable	1	0 germany	7658	124 belgium	2	125 bulgaria	5	:	:	475 syrian arab republic	2	476 thailand	2	479 china	4	536 new zealand	1	Total	7832	Missing .	3545	Total	11377	SC2_pParent_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0) p406000 -- Target child born in Germany? <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> p406010_g1R -- Country of birth target child <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-53 Anonymized</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-53 Anonymized	7832	Missing .	3545	Total	11377
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3 Examples

3.5 Class size

Sometimes, variables are collected numerical. In the example below, the number of students in class was surveyed from the educator in Starting Cohort 2 (Kindergarten) without any further regulations. Thus, the resulting variable e227400_g1R (lower left) does not have a coding scheme. This variable is aggregated to the variable e227400_g1D containing six different class-sizes (upper left). You find this aggregated version in both SUF-versions, the full numerical variable is purged in the Download-SUF, though (lower right).

RemoteNEPS	Download																																																																																																						
SC2_pEducator_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0) e227400_g1D -- Class: number of students, total (coarsed) <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>1 Below 10</td><td>3</td></tr> <tr> <td>2 10 to 14</td><td>26</td></tr> <tr> <td>3 15 to 19</td><td>203</td></tr> <tr> <td>4 20 to 24</td><td>450</td></tr> <tr> <td>5 25 to 29</td><td>169</td></tr> <tr> <td>6 30 to 34</td><td>4</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table> e227400_g1R -- Class: number of students total <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>8</td><td>3</td></tr> <tr> <td>10</td><td>1</td></tr> <tr> <td>11</td><td>1</td></tr> <tr> <td>12</td><td>4</td></tr> <tr> <td>13</td><td>8</td></tr> <tr> <td>14</td><td>12</td></tr> <tr> <td>15</td><td>21</td></tr> <tr> <td>16</td><td>22</td></tr> <tr> <td>17</td><td>34</td></tr> <tr> <td>18</td><td>58</td></tr> <tr> <td>19</td><td>68</td></tr> <tr> <td>20</td><td>75</td></tr> <tr> <td>21</td><td>89</td></tr> <tr> <td>22</td><td>98</td></tr> <tr> <td>23</td><td>88</td></tr> <tr> <td>24</td><td>100</td></tr> <tr> <td>25</td><td>83</td></tr> <tr> <td>26</td><td>39</td></tr> <tr> <td>27</td><td>27</td></tr> <tr> <td>28</td><td>14</td></tr> <tr> <td>29</td><td>6</td></tr> <tr> <td>30</td><td>3</td></tr> <tr> <td>31</td><td>1</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	8	3	10	1	11	1	12	4	13	8	14	12	15	21	16	22	17	34	18	58	19	68	20	75	21	89	22	98	23	88	24	100	25	83	26	39	27	27	28	14	29	6	30	3	31	1	Total	2668	SC2_pEducator_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0) e227400_g1D -- Class: number of students, total (coarsed) <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>1 Below 10</td><td>3</td></tr> <tr> <td>2 10 to 14</td><td>26</td></tr> <tr> <td>3 15 to 19</td><td>203</td></tr> <tr> <td>4 20 to 24</td><td>450</td></tr> <tr> <td>5 25 to 29</td><td>169</td></tr> <tr> <td>6 30 to 34</td><td>4</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table> e227400_g1R -- Class: number of students total <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -54 Missing by design</td><td>1803</td></tr> <tr> <td>-53 Anonymized</td><td>865</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -54 Missing by design	1803	-53 Anonymized	865	Total	2668
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A Appendix

A.1 Complete overview

The following table lists all variables which are affected by anonymization methods. For all variables, full information is available OnSite, although for many of them, you already find this complete information in the RemoteNEPS-version. Only for those variables marked with an asterisk, the full information is only present OnSite. For most of the variables, an aggregated or generated version is available, which still transports some information to the Download-version. Please see the previous chapters for more information.

Table 7: Complete overview of all restricted variables

file	variable	label (*only available OnSite)
pTarget	t32601a_g1	Position generator: Country Nurse
pTarget	t32601b_g1	Position generator: Country Engineer
pTarget	t32601c_g1	Position generator: Country Warehouse/transport worker
pTarget	t32601d_g1	Position generator: Country Social worker
pTarget	t32601e_g1	Position generator: Country Salesperson
pTarget	t32601f_g1	Position generator: Country Police officer
pTarget	t32601g_g1	Position generator: Country Physician
pTarget	t32601h_g1	Position generator: Country Banker
pTarget	t32601k_g1	Position generator: Country Motor mechanic
pTarget	t32601l_g1	Position generator: Country Legal practitioner
pTarget	t32601m_g1	Position generator: Country Optician
pTarget	t32601n_g1	Position generator: Country Translator
pTarget	t32601o_g1	Position generator: Country Teacher at elementary school/Hauptschule/Realschule
pTarget	t405010_g1	Country of place of birth
pTarget	t405070_g1	Country of birth, mother
pTarget	t405100_g1	Country of birth father
pTarget	t405220_g1	Country of birth mother's mother
pTarget	t405230_g1	Country of birth mother's father
pTarget	t405240_g1	Country of birth father's mother
pTarget	t405250_g1	Country of birth father's father
pTarget	t407010_g1	Country of birth Partner
pTarget	t407070_g1	Country of birth Mother Partner
pTarget	t407100_g1	Country of birth Father Partner
pTarget	t431010_g1	Country of destination
pTarget	t751004_g1	Country of residence (abroad)
pTarget	t751015_g1	Country of secondary residence (abroad)
spEmp	ts23239_g1	Country of workplace
spPartner	ts31205_g1	Country of birth Partner
spPartner	ts31208_g1	Country of birth Father Partner
spPartner	ts31210_g1	Country of birth Mother Partner
spResidence	th21103_g1	Country of place of residence
spSchool	ts1120s_g1	Country of school

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
spSchoolExtExam	ts11301_g1	Country of awarded school-leaving qualification	
spVocExtExam	ts15303_g1	Country of external examination	
spVocTrain	ts1521s_g1	Country of vocational training	
pTarget	t412141_g1	Interaction language - best friend (ISO 639.2)	
pTarget	t412171_g1	Language use - colleagues (ISO 639.2)	
pTarget	t413000_g1	1st mother tongue (ISO 639.2)	
pTarget	t413010_g1	2nd mother tongue (ISO 639.2)	
pTarget	t413060_g1	Language of origin (ISO 639.2)	
pTarget	t413100_g1	First language/language of origin Mother (ISO 639.2)	
pTarget	t413120_g1	First language/language of origin Father (ISO 639.2)	
pTarget	t413501_g1	Interaction language - household (ISO 639.2)	
pTarget	t418001_g1	Language Reading - profession (ISO 639.2)	
pTarget	t418011_g1	Language Reading - free time (ISO 639.2)	
pTarget	t406100_g1	other nationality	
pTarget	t272800	Trade fair/congress: content	*
pTarget	t272801	Specialist lecture: content	*
pTarget	t272804	Self-study program: content	*
pTarget	t272805	Online learning: content	*
pTarget	t272806	Counseling services: content	*
pTarget	t406001	Other reason for migration Immigration status other	*
pTarget	t432020	Characteristics of external ascription: other (open)	*
pTarget	t66507a	Goal orientation: work/health	*
pTarget	t731302	other school-leaving qualification mother	*
pTarget	t731304	Other professional qualification mother (open)	*
pTarget	t731305	other educational institution Mother (open)	*
pTarget	t731307	Other higher education qualification mother (open)	*
pTarget	t731309	other institution awarding higher education degrees Mother (open)	*
pTarget	t731352	other school-leaving qualification father	*
pTarget	t731354	Other professional qualification father (open)	*
pTarget	t731355	other educational institution Father (open)	*
pTarget	t731357	Other higher education qualification father (open)	*
pTarget	t731359	other institution awarding higher education degrees Father (open)	*
pTarget	th18021	Other learning material: open	*
pTarget	th18021_v1	Other learning material: open (temp. drop-out)	*
pTarget	th18047	Changed learning opportunities during school closure: other open	*
pTarget	th18047_v1	Changed learning opport. during school closure: other open (temp. drop-out)	*
pTarget	th18051	Information higher education institution: open	*
pTarget	th18051_v1	Information higher education institution: open (temp. drop-out)	*
pTarget	th24539	Text Selected occupation	*
pTarget	th32217	Other partial retirement model	*
pTarget	th32343	Other professional qualification Partner (open) (LAT)	*
pTarget	th32344	Other educational institution Partner (open) (LAT)	*
pTarget	th32345	Other higher education qualification Partner (open) (LAT)	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pTarget	th32347	other institution awarding higher education degrees Partner (open) (LAT)	*
pTarget	th34398	Main employment episode	*
spChild	ts33211	Other employment status child (open)	*
spChild	ts33213	other type of school child	*
spChild	ts33215	other school-leaving qualification child	*
spChild	ts33217	Other training child	*
spChild	ts33219	other study institution child	*
spChild	ts33221	Other professional qualification child (open)	*
spChild	ts33222	Other educational institution Child (open)	*
spChild	ts33224	Other higher education qualification child (open)	*
spChild	ts33226	Other institution awarding higher education degrees child (open)	*
spCourses	t272044_w1	Type certificate	*
spCourses	t272044_w2	Type certificate	*
spCourses	t272044_w3	Type certificate	*
spCourses	t272044_w4	Type certificate	*
spCourses	t272044_w5	Type certificate	*
spFurtherEdu1	t272044	Type certificate	*
spFurtherEdu2	t272044	Type certificate	*
spGap	ts29102	other activity	*
spMilitary	ts21401	Other voluntary service (25108a)	*
spPartner	ts31213	other school-leaving qualification partner	*
spPartner	ts31215	Other professional qualification partner (open)	*
spPartner	ts31216	Other educational institution partner (open)	*
spPartner	ts31218	Other higher education qualification partner (open)	*
spPartner	ts31220	Other institution awarding higher education degree partner (open)	*
spSchool	t724806	1st Abitur subject, open	*
spSchool	t724807	2nd Abitur subject, open	*
spSchool	t724808	3rd Abitur subject, open	*
spSchool	t724809	4th Abitur subject, open	*
spSchool	t724810	5th Abitur subject, open	*
spSchool	ts11206	other type of school	*
spSchool	ts11212	other school-leaving qualification	*
spSchool	ts11217	other intended school-leaving qualification	*
spSchoolExtExam	ts11305	Awarded other school-leaving qualification	*
spVocExtExam	ts15305	Other external examination qualification	*
spVocTrain	ts15202	other training	*
spVocTrain	ts15220	other vocational qualification	*
spVocTrain	ts15222	other vocational qualification (open)	*
spVolunteerWork	t262950	Content Volunteering 1	*
spVolunteerWork	t262951	Content Volunteering 2	*
spVolunteerWork	t262952	Concrete activity (open)	*
spVolunteerWork	t262954	Volunteering area (open)	*
xTargetCORONA	th80002	Content media - digital	*
xTargetCORONA	tm00040	Childcare situation NEPS child - open	*
xTargetCORONA	tm00048	Childcare situation - open	*
xTargetCORONA	tm00056	Other learning material: open	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
xTargetCORONA	tm00085	Learning materials - open	*
xTargetCORONA	tm00097	Changed learning opportunities during school closure - other, open	*
xTargetCORONA	tm00109	Offered courses - other, open	*
xTargetCORONA	tm00115	Information higher education institution, open	*
xTargetCORONA	tm00140	Chances Future	*
pTarget	t700101_g3	Municipality of birth (RS region)	
pTarget	t700101_g4	Municipality of birth (RS administrative district)	
pTarget	t751001_g3	Municipality of residence (administrative district)	
pTarget	t751001_g4	Municipality of residence (district)	
pTarget	t751011_g3	Municipality secondary residence (RS region)	
pTarget	t751011_g4	Municipality secondary residence (RS administrative district)	
spEmp	ts23237_g3	Location of workplace (RS region)	
spEmp	ts23237_g4	Location of workplace (RS administrative district)	
spResidence	th21111_g3	Place of residence (RS region)	
spResidence	th21111_g4	Place of residence (RS administrative district)	
spSchool	ts11202_g3	Municipality of school (RS region)	
spSchool	ts11202_g4	Municipality of school (RS administrative district)	
spVocPrep	ts13105_g2	Municipality of measure (federal state)	
spVocPrep	ts13105_g3	Municipality of measure (RS region)	
spVocPrep	ts13105_g4	Municipality of measure (RS administrative district)	
spVocTrain	ts15207_g3	Municipality of training facility (RS region)	
spVocTrain	ts15207_g4	Municipality of training facility (RS administrative district)	
pTarget	t731406	Number of mother's employees	
pTarget	t731406_ha	Number of mother's employees (harmonized)	
pTarget	t731406_v1	Number of mother's employees	
pTarget	t731456	Number of father's employees	
pTarget	t731456_ha	Number of father's employees (harmonized)	
pTarget	t731456_v1	Number of father's employees	
pTarget	th32355	Number of employees Partner (LAT)	
spEmp	ts23210	Number of employees	
spEmp	ts23210_ha	Number of employees (harmonized)	
spEmp	ts23210_v1	Number of employees (wave 1)	
spPartner	ts31229	Number of employees partner	
FurtherEducation	tx28202	Course content	
pTarget	t435030_g1	"Religion & religiousness: other religious community"	
pTarget	t700101_g8	Municipality of birth (East/West Berlin)	
pTarget	t751001_g8	Municipality of residence (East/West Berlin)	
pTarget	t751011_g8	Municipality secondary residence (East/West Berlin)	
spCourses	t272011_w1	Course content	
spCourses	t272011_w2	Course content	
spCourses	t272011_w3	Course content	
spCourses	t272011_w4	Course content	
spCourses	t272011_w5	Course content	
spEmp	ts23237_g8	Location of workplace (East/West Berlin)	
spFurtherEdu1	t272000	Course content	
spResidence	th21111_g8	Place of residence (East/West Berlin)	
spSchool	ts11202_g8	Municipality of school (East/West Berlin)	

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
spVocPrep	ts13105_g8	Municipality of measure (East/West Berlin)
spVocTrain	ts15207_g8	Municipality of training facility (East/West Berlin)
xTargetCORONA	tm00002	Impact: coronavirus infection - myself
xTargetCORONA	tm00003	Impact: coronavirus infection - household
xTargetCORONA	tm00004	Impact: coronavirus infection - relative
xTargetCORONA	tm00005	Impact: coronavirus infection - friend/acquaintance
xTargetCORONA	tm00006	Impact: coronavirus infection - colleague
xTargetCORONA	tm00008	Impact: quarantine - myself
xTargetCORONA	tm00009	Impact: quarantine - household
xTargetCORONA	tm00010	Impact: quarantine - relative
xTargetCORONA	tm00011	Impact: quarantine - friend/acquaintance
xTargetCORONA	tm00012	Impact: quarantine - colleague
pTargetMicrom		*
pTargetRegioInfas		*

A.2 Recoding of countries/languages/nationalities

The following tables summarize the complete recoding procedure of countries and languages/-nationalities. Each category of the aggregated version (bold) is followed by all entries which have been subsumed to it. All entries are sorted according to their numeric code.

Table 8: Complete recoding map of all countries

country	
-23	parent not known
-21	Germany and foreign country, not codeable
-20	Foreign country, but not codeable [9005] Kurdish areas, [9991] German-speaking country abroad, [9992] English-speaking country abroad, [9993] Spanish-speaking country abroad
1	Germany [0] Germany
2	Italy [137] Italy
3	Poland [152] Poland
4	Romania [154] Romania
5	Turkey [163] Turkey
6	Former Yugoslavia [120] Yugoslavia, [122] Bosnia and Herzegovina, [130] Croatia, [131] Slovenia, [132] Serbia and Montenegro, [138] Yugoslavia, Federal Republic of, [140] Montenegro, [144] Macedonia, [150] Kosovo, [170] Serbia
7	Former Soviet Union [127] Estonia, [139] Latvia, [142] Lithuania, [146] Moldova, Republic of, [159] Soviet Union, [160] Russian Federation, [166] Ukraine, [169] Belarus, [422] Armenia, [425] Azerbaijan, [430] Georgia, [444] Kazakhstan, [450] Kyrgyzstan, [470] Tajikistan, [471] Turkmenistan, [477] Uzbekistan
8	Central and South America, Caribbean [320] Antigua and Barbuda, [322] Barbados, [323] Argentina, [324] Bahamas, [326] Bolivia, Plurinational State of, [327] Brazil, [328] Guyana, [330] Belize, [332] Chile, [333] Dominica, [334] Costa Rica, [335] Dominican Republic, [336] Ecuador, [337] El Salvador, [340] Grenada, [345] Guatemala, [346] Haiti, [347] Honduras, [349] Colombia, [351] Cuba, [353] Mexico, [354] Nicaragua, [355] Jamaica, [357] Panama, [359] Paraguay, [361] Peru, [364] Suriname, [365] Uruguay, [366] Saint Lucia, [367] Venezuela, Bolivarian Republic of, [369] Saint Vincent and the Grenadines, [370] Saint Kitts and Nevis, [371] Trinidad and Tobago
9	Northern and Western Europe [124] Belgium, [126] Denmark, [128] Finland, [129] France, [135] Ireland, [136] Iceland, [141] Liechtenstein, [143] Luxembourg, [147] Monaco, [148] Netherlands, [149] Norway, [151] Austria, [157] Sweden, [158] Switzerland, [168] United Kingdom, [193] Norwegian dependent territories in Europe, [195] British dependent territories in Europe, [196] Danish dependent territories in Europe, [295] British dependent territories in Africa, [298] French dependent territories in Africa, [392] Dutch dependent territories in America, [395] British dependent territories in America, [396] Danish dependent territories in America, [398] French dependent territories in America, [495] British dependent territories in Asia, [593] Norwegian dependent territories in Australia, Oceania, Antarctica, [595] British dependent territories in Australia, Oceania, Antarctica, [598] French dependent territories in Australia, Oceania, Antarctica
10	North America

(...)

Table 8: (continued)

country	
	[348] Canada, [368] United States, [391] US dependent territories in America, [591] US dependent territories in Australia, Oceania, Antarctica
11	Oceania/Polynesia [523] Australia, [524] Solomon Islands, [526] Fiji, [527] Cook Islands, [530] Kiribati, [531] Nauru, [532] Vanuatu, [533] Niue, [536] New Zealand, [537] Palau, [538] Papua New Guinea, [540] Tuvalu, [541] Tonga, [543] Samoa, [544] Marshall Islands, [545] Micronesia, Federated States of, [590] New Zealand's dependent territories in Australia, Oceania, Antarctica, [594] Australian dependent territories in Australia, Oceania, Antarctica
12	Other Middle East and North Africa [221] Algeria, [248] Libya, [252] Morocco, [285] Tunisia, [287] Egypt, [421] Yemen, [424] Bahrain, [438] Iraq, [439] Iran, Islamic Republic of, [441] Israel, [445] Jordan, [447] Qatar, [448] Kuwait, [451] Lebanon, [456] Oman, [469] United Arab Emirates, [472] Saudi Arabia, [475] Syrian Arab Republic, [499] other Asia
13	Other Africa [223] Angola, [224] Eritrea, [225] Ethiopia, [226] Lesotho, [227] Botswana, [229] Benin, [230] Djibouti, [231] Côte d'Ivoire, [232] Nigeria, [233] Zimbabwe, [236] Gabon, [237] Gambia, [238] Ghana, [239] Mauritania, [242] Cape Verde, [243] Kenya, [244] Comoros, [245] Congo, [246] Congo, the Democratic Republic of the, [247] Liberia, [249] Madagascar, [251] Mali, [253] Mauritius, [254] Mozambique, [255] Niger, [256] Malawi, [257] Zambia, [258] Burkina Faso, [259] Guinea-Bissau, [261] Guinea, [262] Cameroon, [263] South Africa, [265] Rwanda, [267] Namibia, [268] Sao Tome and Principe, [269] Senegal, [271] Seychelles, [272] Sierra Leone, [273] Somalia, [274] Equatorial Guinea, [276] Sudan, [281] Swaziland, [282] Tanzania, United Republic of, [283] Togo, [284] Chad, [286] Uganda, [289] Central African Republic, [291] Burundi
14	Other Asia [423] Afghanistan, [426] Bhutan, [427] Myanmar, [429] Brunei Darussalam, [431] Sri Lanka, [432] Vietnam, [434] Korea, Democratic People's Republic of, [436] India, [437] Indonesia, [442] Japan, [446] Cambodia, [449] Lao People's Democratic Republic of, [454] Maldives, [457] Mongolia, [458] Nepal, [460] Bangladesh, [461] Pakistan, [462] Philippines, [465] Taiwan, Province of China, [467] Korea, Republic of, [474] Singapore, [476] Thailand, [479] China, [482] Malaysia, [483] Timor-Leste, Democratic Republic of
15	Other Central and Eastern Europe [125] Bulgaria, [155] Slovakia, [162] Czechoslovakia, [164] Czech Republic, [165] Hungary
16	Other Southern Europe [121] Albania, [123] Andorra, [134] Greece, [145] Malta, [153] Portugal, [156] San Marino, [161] Spain, [167] Holy See (Vatican City State), [181] Cyprus, [297] Spanish dependent territories in Africa
17	Other [996] unknown foreign countries

Table 9: Complete recoding map of all languages/nationalities

language/nationality	
1	Arabic [1011801] Arabic
2	Bosnian [1021519] Bosnian
3	Bulgarian [1022112] Bulgarian
4	German [1070518] German, [1140419] Low German; Low Saxon; German, Low; Saxon, Low
5	English [1051407] English
6	French [1061805] French
7	Greek [1071803] Greek, Ancient (to 1453), [1071805] Greek, Modern (1453-)
8	Italian [1092001] Italian
9	Croatian [1081822] Croatian
10	Kurdish [1112118] Kurdish
11	Polish [1161512] Polish
12	Portuguese [1161518] Portuguese
13	Russian [1182119] Russian
14	Romanian [1182113] Romanian; Moldavian; Moldovan
15	Serbian [1191816] Serbian
16	Spanish [1191601] Spanish; Castilian
17	Turkish [1202118] Turkish
18	Vietnamese [1220905] Vietnamese
19	Asian languages [1010305] Achinese, [1011111] Akkadian, [1011803] Official Aramaic (700-300 BCE); Imperial Aramaic (700-300 BCE), [1011913] Assamese, [1012205] Avestan, [1012301] Awadhi, [1020112] Baluchi, [1020114] Balinese, [1020514] Bengali, [1020815] Bhojpuri, [1020908] Bihari languages, [1020911] Bikol, [1021801] Braj, [1022011] Batak languages, [1022101] Buriat, [1022107] Buginese, [1022118] Burmese

(...)

Table 9: (continued)

	language/nationality
	, [1030502] Cebuano, [1030807] Chagatai, [1030809] Chinese, [1030811] Chuukese, [1031303] Chamic languages, [1040125] Land Dayak languages, [1040922] Divehi; Dhivehi; Maldivian, [1041509] Dogri, [1042615] Dzongkha, [1051224] Elamite, [1060912] Filipino; Pilipino, [1070125] Gayo, [1071514] Gondi, [1072110] Gujarati, [1080502] Hebrew, [1080912] Hiligaynon, [1080913] Himachali languages; Western Pahari languages, [1080914] Hindi, [1080920] Hittite, [1081314] Hmong; Mong, [1090201] Iban, [1091215] Iloko, [1091404] Indonesian, [1100122] Javanese, [1101614] Japanese, [1101618] Judeo-Persian, [1101802] Judeo-Arabic, [1110101] Kara-Kalpak, [1110103] Kachin; Jingpho, [1110114] Kannada, [1110118] Karen languages, [1110119] Kashmiri, [1110123] Kawi, [1110126] Kazakh, [1110801] Khasi, [1110813] Central Khmer, [1110815] Khotanese; Sakan, [1110918] Kirghiz; Kyrgyz, [1111511] Konkani, [1111518] Korean, [1111821] Kurukh, [1112113] Kumyk, [1120108] Lahnda, [1120115] Lao, [1120526] Lezghian, [1122119] Lushai, [1130104] Madurese, [1130107] Magahi, [1130109] Maithili, [1130111] Makasar, [1130112] Malayalam, [1130118] Marathi, [1130125] Malay, [1130418] Mandarin, [1130914] Minangkabau, [1131403] Manchu, [1131409] Manipuri, [1131415] Manobo languages, [1131514] Mongolian, [1132114] Munda languages, [1132318] Marwari, [1140516] Nepali, [1140523] Nepal Bhasa; Newari, [1140901] Nias, [1151809] Oriya, [1151919] Ossetian; Ossetic, [1152001] Turkish, Ottoman (1500-1928), [1160107] Pangasinan, [1160113] Pampanga; Kapampangan, [1160114] Panjabi; Punjabi, [1160515] Persian, Old (ca.600-400 B.C.), [1160518] Persian, [1160814] Phoenician, [1161209] Pali, [1161514] Pohnpeian, [1161801] Prakrit languages, [1162119] Pushto; Pashto, [1180110] Rajasthani, [1190108] Yakut, [1190113] Samaritan Aramaic, [1190114] Sanskrit, [1190119] Sasak, [1190120] Santali, [1190512] Selkup, [1190814] Shan, [1190914] Sinhala; Sinhalese, [1191404] Sindhi, [1191507] Sogdian, [1192114] Sundanese, [1192124] Sumerian, [1192503] Classical Syriac, [1200113] Tamil, [1200120] Tatar, [1200512] Telugu, [1200520] Tetum, [1200711] Tajik, [1200712] Tagalog, [1200801] Thai, [1200902] Tibetan, [1202111] Turkmen, [1202522] Tuvinian, [1210701] Ugaritic, [1210907] Uighur; Uyghur, [1211804] Urdu, [1212602] Uzbek, [1230118] Waray, [1250116] Yapese, [1260801] Zhuang; Chuang
20	African languages [1010118] Afar, [1010308] Acoli, [1010401] Adangme, [1010608] Afrihili, [1010618] Afrikaans, [1011101] Akan, [1011308] Amharic, [1020104] Banda languages, [1020109] Bamileke languages, [1020113] Bambara, [1020119] Basa, [1020510] Beja; Bedawiyet, [1020513] Bemba, [1020518] Berber languages, [1020914] Bini; Edo, [1021420] Bantu (Other), [1031516] Coptic, [1040914] Dinka, [1042101] Duala, [1042521] Dyula, [1050609] Efik, [1050725] Egyptian (Ancient), [1051101] Ekajuk, [1052305] Ewe, [1052315] Ewondo, [1060114] Fang, [1060120] Fanti, [1061514] Fon, [1062112] Fulah, [1070101] Ga, [1070201] Gbaya, [1070526] Geez, [1071802] Grebo, [1080121] Hausa, [1080518] Herero, [1090215] Igbo, [1091015] Ijo languages, [1091405] Indo-European languages, [1110102] Kabyle, [1110113] Kamba, [1110121] Kanuri, [1110911] Kikuyu; Gikuyu, [1110914] Kinyarwanda, [1111302] Kimbundu, [1111514] Kongo, [1111605] Kpelle, [1111815] Kru languages, [1112101] Kuanyama; Kwanyama, [1120113] Lamba, [1120914] Lingala, [1121512] Mongo, [1121526] Lozi, [1122101] Luba-Lulua, [1122102] Luba-Katanga, [1122107] Ganda, [1122114] Lunda, [1122115] Luo (Kenya and Tanzania), [1130114] Mandingo, [1130119] Masai, [1130514] Mende, [1131207] Malagasy, [1131519] Mossi, [1140212] Ndebele, South; South Ndebele, [1140405] Ndebele, North; North Ndebele, [1140415] Ndonga, [1141915] Pedi; Sepedi; Northern Sotho, [1142501] Chichewa; Chewa; Nyanja, [1142513] Nyamwezi, [1142514] Nyankole, [1142515] Nyoro, [1142609] Nzima, [1151813] Oromo, [1182114] Rundi, [1190104] Sandawe, [1190107] Sango, [1190904] Sidamo, [1191201] Slavic languages, [1191401] Shona, [1191411] Soninke, [1191513] Somali, [1191514] Songhai languages, [1191520] Sotho, Southern, [1191818] Serer, [1191923] Swati, [1192111] Sukuma, [1192119] Susu, [1192301] Swahili, [1200513] Timne, [1200907] Tigre, [1200918] Tigrinya, [1200922] Tiv, [1201308] Tamashek, [1201507] Tonga (Nyasa), [1201914] Tswana, [1201915] Tsonga, [1202113] Tumbuka, [1202309] Twi, [1211302] Umbundu, [1220109] Vai, [1220514] Venda, [1230112] Walamo, [1231512] Wolof, [1240815] Xhosa, [1250115] Yao, [1251518] Yoruba, [1260514] Zenaga, [1261404] Zande languages, [1262112] Zulu

(...)

Table 9: (continued)

	language/nationality
21	Other languages [1010211] Abkhazian, [1011202] Albanian, [1011205] Aleut, [1011207] Algonquian languages, [1011407] English, Old (ca.450-1100), [1011601] Apache languages, [1011807] Aragonese, [1011813] Armenian, [1011814] Mapudungun; Mapuche, [1011816] Arapaho, [1011823] Arawak, [1012008] Athapaskan languages, [1012119] Australian languages, [1012201] Avaric, [1012513] Aymara, [1012605] Azerbaijani, [1020111] Bashkir, [1020117] Basque, [1020512] Belarusian, [1020919] Bislama, [1021201] Siksika, [1021805] Breton, [1030104] Caddo, [1030118] Galibi Carib, [1030120] Catalan; Valencian, [1030121] Caucasian languages, [1030801] Chamorro, [1030802] Chibcha, [1030805] Chechen, [1030813] Mari, [1030814] Chinook jargon, [1030815] Choctaw, [1030816] Chipewyan; Dene Suline, [1030818] Cherokee, [1030821] Church Slavonic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic, [1030822] Chuvash, [1030825] Cheyenne, [1031518] Cornish, [1031519] Corsican, [1031605] Creoles and pidgins, English based, [1031805] Cree, [1031816] Creoles and pidgins, [1032605] Czech, [1040111] Dakota, [1040114] Danish, [1040512] Delaware, [1040718] Dogrib, [1042113] Dutch, Middle (ca.1050-1350), [1042120] Dutch; Flemish, [1051413] English, Middle (1100-1500), [1051615] Esperanto, [1051920] Estonian, [1060115] Faroese, [1060910] Fijian, [1060914] Finnish, [1061813] French, Middle (ca.1400-1600), [1061815] French, Old (842-ca.1400), [1061825] Western Frisian, [1062118] Friulian, [1070515] Georgian, [1070912] Gilbertese, [1071201] Gaelic; Scottish Gaelic, [1071205] Irish, [1071207] Galician, [1071222] Manx, [1071308] German, Middle High (ca.1050-1500), [1071508] German, Old High (ca.750-1050), [1071518] Gorontalo, [1071520] Gothic, [1071814] Guarani, [1072309] Gwich'in, [1080109] Haida, [1080120] Haitian; Haitian Creole, [1080123] Hawaiian, [1081315] Hiri Motu, [1082114] Hungarian, [1082116] Hupa, [1090305] Icelandic, [1090415] Ido, [1091121] Inuktitut, [1091205] Interlingue; Occidental, [1091401] Interlingua (International Auxiliary Language Association), [1091611] Inupiaq, [1091815] Iroquoian languages, [1110112] Kalaallisut; Greenlandic, [1111513] Komi, [1111519] Kosraean, [1112120] Kutenai, [1120104] Ladino, [1120120] Latin, [1120122] Latvian, [1120913] Limburgan; Limburger; Limburgish, [1120920] Lithuanian, [1122026] Luxembourgish; Letzeburgesch, [1122109] Luiseno, [1130103] Macedonian, [1130108] Marshallese, [1130115] Maori, [1130701] Irish, Middle (900-1200), [1130903] Mi'kmaq; Micmac, [1131220] Maltese, [1131508] Mohawk, [1132119] Creek, [1132514] Mayan languages, [1140108] Nahuatl languages, [1140121] Nauru, [1140122] Navajo; Navaho, [1140903] Niger-Kordofanian languages, [1140921] Niuean, [1141415] Norwegian Nynorsk; Nynorsk, Norwegian, [1141502] Bokmål, Norwegian; Norwegian Bokmål, [1141514] Norse, Old, [1141518] Norwegian, [1150309] Occitan (post 1500); Provençal, [1151009] Ojibwa, [1151901] Osage, [1152015] Otomian languages, [1160112] Pahlavi, [1160116] Papiamentu, [1160121] Palauan, [1161815] Provençal, Old (to 1500), [1172105] Quechua, [1180116] Rapanui, [1180118] Rarotongan; Cook Islands Maori, [1181508] Romansh, [1181513] Romany, [1190112] Salishan languages, [1190315] Scots, [1190701] Irish, Old (to 900), [1190915] Siouan languages, [1191215] Slovak, [1191222] Slovenian, [1191305] Northern Sami, [1191309] Sami languages, [1191315] Samoan, [1191804] Sardinian, [1192305] Swedish, [1200108] Tahitian, [1200518] Tereno, [1201112] Tokelau, [1201209] Tlingit, [1201514] Tonga (Tonga Islands), [1201609] Tok Pisin, [1201909] Tsimshian, [1202120] Altaic languages, [1202212] Tuvalu, [1211118] Ukrainian, [1221512] Volapük, [1221520] Votic, [1230111] Wakashan languages, [1230119] Washo, [1230512] Welsh, [1230514] Sorbian languages, [1231214] Walloon, [1250904] Yiddish, [1251611] Yupik languages, [1260116] Zapotec, [1262114] Zuni, [1262601] Zaza; Dimili; Dimli; Kirdki; Kirmanjki; Zazaki

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