CODEBOOK AND SQL CODES FOR SIMPLE DERIVED VARIABLES (PIAAC CYCLE 2)

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Introduction

Different type of derived variables

This document does not display formula for all variables derived from the raw questions of the background questionnaire. In the context of the Programme for the International Assessment of Adult Competencies (PIAAC), it is important to understand the distinction between background questionnaire variables derived after data collection and those derived during the interview process:

- **Variables Derived During the Interview**: These are the variables that are automatically generated during the data collection process. They include responses to the questionnaire, such as demographic information (e.g., age, gender, education level) and cognitive assessments (e.g., literacy, numeracy, and problem-solving skills). These variables are collected in real-time as the interviewer administers the survey through face-to-face or computer-assisted personal interviews (CAPI).
- **Variables Derived After Data Collection**: These are the variables that are not immediately derived during the interview but are created later, sometimes by linking the survey data with external datasets or applying statistical techniques. This type of derived variables may include indicators of employment status over time, income levels, or educational attainment, which are often generated after the initial data collection through data cleaning, matching, or merging with other datasets.

While this document presents the formulas for the simplest derived variables of the former type, the formulas for the variables derived during the interview can be found in the HTML version of the background questionnaires available on the PIAAC website (https://www.oecd.org/en/data/datasets/piaac-2nd-cycle-database.html). Variables derived after data collection with more complex tools, such as psychometric models or imputation methods are described in the technical report (https://www.oecd.org/en/about/programmes/piaac/piaac-publications.html).

Disposition codes and missing codes

Among variables derived after data collection, disposition codes play a critical role in understanding how data is treated post-interview. Disposition codes are used to categorise the outcome of the interview process, such as whether the respondent completed the interview, refused participation, or if there were any issues with the data collection. These codes are not part of the background questionnaire data but are necessary for ensuring the quality and validity of the dataset by providing insight into the interview process and helping researchers interpret the data accurately.

Attention point: Final Disposition Codes

In the context of the PIAAC database, the variable **DISP_DS** refers to the "**Final Disposition Code for the Doorstep Interview**". A value greater than 0 (**DISP_DS > 0**) assigned to this variable indicates that there was some form of **successful or partial interaction** with the respondent during the doorstep interview process. This means that the interview was initiated, partially completed, or there was positive engagement with the respondent, although the interview may not have been fully finished.

To fully grasp how missing or incomplete data is handled within the PIAAC dataset, it is also important to understand the non-response codes used throughout the survey. These codes help classify the different types of non-responses and data gaps, providing further context on how survey participants engaged with the interview process. In the formulas presented in this document, specific negative values are used to indicate non-response or missing data. Please note that these values are encoded differently in the datasets from which the value labels are derived.

Code	Meaning	Context
-22	**Not reached / Not administered**	The question was not presented to the respondent due to non-contact, survey termination, or routing rules.
-33	**Refused to answer**	The respondent explicitly refused to provide an answer, even though the question was asked.
-55	**Don't know**	The respondent did not know the answer to the question or was unsure.
-66	**No answer / No response**	The respondent provided no answer to the question, leaving it blank or unaddressed.
-77	**Not applicable**	The question is not applicable to the respondent based on routing or eligibility criteria.
-88	**Non-respondent / Ineligible**	The respondent was unable or unwilling to participate, or was deemed ineligible for the survey (e.g., age, residency). No valid data was collected.
-99	**Missing / Not Available**	The data for this variable is missing, unavailable, or not applicable for this respondent. It is typically used as a placeholder for cases where no data could be collected or processed.

Background variables

Variable Label

Country where highest qualification obtained (9 regions)

Value Labels

Scale: discrete (categorical)

1	"Arab States"
2	"South and West Asia"
3	"Latin America and the Caribbean"
4	"Sub-Saharan Africa"
5	"East Asia and the Pacific (poorer countries)"
6	"Central Asia"
7	"East Asia and the Pacific (richer countries)"
8	"Central and Eastern Europe"
9	"North America and Western Europe"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

CNT_H

SQL code

```
*/
set CTRYQUAL = case
     when CNT_H in (12, 48, 262, 818, 368, 400, 414, 422, 434, 478, 504, 275, 512, 634, 682, 736, 728,
729, 760, 788, 784, 887) then 1 /*"Arab States"*/
     when CNT_H in (4, 50, 64, 356, 364, 462, 524, 586, 144) then 2 /*"South and West Asia"*/
     when CNT_H in (660, 28, 32, 533, 44, 52, 84, 60, 68, 76, 92, 136, 152, 170, 188, 192, 212, 214,
218, 222, 308, 320, 328, 332, 340, 388, 484, 500, 530, 531, 534, 535, 558, 591, 600, 604, 652 , 659,
662, 663,  670, 740, 780, 796, 858, 862, 630, 474) then 3 /*"Latin America and the Caribbean"*/
     when CNT_H in (24, 204, 72, 854, 108, 120, 132, 140, 174, 178, 384, 180, 226, 232, 231, 266, 270,
288, 324, 624, 404, 426, 430, 450, 454, 466, 480, 508, 516, 562, 566, 646, 678, 686, 690, 694, 706, 710,
748, 768, 800, 834, 894, 716, 148, 175) then 4 /*"Sub-Saharan Africa"*/
     when CNT_H in (96, 116, 156, 184, 408, 242, 360, 296, 418, 446, 458, 584, 583, 104, 520, 598,
608, 882, 90, 764, 626, 776, 798, 548, 704, 344) then 5 /*"East Asia and the Pacific (poorer
countries)"*/
     when CNT_H in (51, 31, 268, 398, 417, 496, 762, 795, 860) then 6 /*"Central Asia"*/
     when CNT_H in (36, 392, 554, 410, 702, 540) then 7 /*"East Asia and the Pacific (richer countries)"
*/
     when CNT_H in (8, 112, 70, 100, 191, 203, 233, 348, 428, 440, 499, 616, 498, 642, 643, 688, 703,
705, 807, 792, 804) then 8 /*"Central and Eastern Europe"*/
```

```
    when CNT_H in (20, 40, 56, 124, 196, 208, 246, 250, 276, 300, 352, 372, 376, 380, 442, 470, 492,
528, 578, 620, 674, 724, 752, 756, 826, 840) then 9 /*"North America and Western Europe"*/
    when CNT_H in (258, 312, 999) then -99
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

CTRYRGN

Variable Label

Country region (9 regions)

Value Labels

Scale: discrete (categorical)

1	"Arab States"
2	"South and West Asia"
3	"Latin America and the Caribbean"
4	"Sub-Saharan Africa"
5	"East Asia and the Pacific (poorer countries)"
6	"Central Asia"
7	"East Asia and the Pacific (richer countries)"
8	"Central and Eastern Europe"
9	"North America and Western Europe"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

CNTRYID

SQL code

```
*/
set CTRYRGN = case
    when CNTRYID in (40, 56, 124, 208, 246, 250, 276, 191, 348, 372, 376, 380, 528, 578, 620, 724,
752, 756, 826, 840) then 9
    when CNTRYID in (203, 233, 428, 440, 616, 703) then 8
    when CNTRYID in (392, 410, 554, 702) then 7
    when CNTRYID = 152 then 3
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

GENDER

Variable Label
Person gender (BQ or Doorstep Interview)

Value Labels
Scale: ordinal (categorical)

1	"Male"
2	"Female"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
A2_N02, DI_Q02

SQL code
```
*/
set GENDER = A2_N02
/*

 *** For respondents taking the doorstep interview ***
*/
set GENDER = DI_Q02
/*
```

GENDER_R

Variable Label
Person gender

Value Labels
Scale: ordinal (categorical)

1	"Male"
2	"Female"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
A2_N02, DI_Q02

SQL code
```
*/
set GENDER_R = case
     when A2_N02 < 0 and DI_Q02 < 0 then CI_GENDER
```

```
      when DISP_CIBQ =7 and DISP_DS in (1, 90) then DI_Q02
      else A2_N02
   end
/*
```

GENDER_BQDI

Variable Label

Person gender (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1   "Male"
2   "Female"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

A2_N02, DI_Q02

SQL code

```
*/
set GENDER_BQDI = case
        when (A2_N02 = 1 or DI_Q02 = 1) then 1
        when (A2_N02 = 2 or DI_Q02 = 2) then 2
        when (A2_N02 = -22 or DI_Q02 = -22) then -22
        when (A2_N02 = -33 or DI_Q02 = -33) then -33
     else -99
        end
/*
```

DOBMM

Variable Label

Date of birth month

Value Labels

Scale: ordinal (categorical)

1 "January"

2 "February"

3 "March"

4 "April"

5 "May"

6 "June"

7 "July"

8 "August"

9 "September"

10 "October"

11 "November"

12 "December"

.N "Not stated or inferred"

Reference variables

A2_Q01b

SQL code

```
*/
set DOBMM = case
    when A2_Q01b <= 0 then -99
    else A2_Q01b
    end
/*
```

DOBYY

Variable Label

Date of birth year

Value Labels

Scale: continuous

.N "Not stated or inferred"

Reference variables

A2_Q01a

SQL code

```
*/
set DOBYY = case
    when A2_Q01a <= 0 then -99
```

```
      else A2_Q01a
      end
/*
```

CALCAGE

Variable Label

Person age

Value Labels

Scale: continuous

.N   "Not stated or inferred"

Reference variables

CURYEAR, CURMONTH, A2_Q01a, A2_Q01b, CI_AGE

SQL code

```
*/
set CALCAGE = case
when (CURYEAR > 0 and CURMONTH > 0 and A2_Q01a > 0 and A2_Q01b > 0) then FLOOR (((CURYEAR
* 12 + CURMONTH) - (A2_Q01a * 12 + A2_Q01b)) / 12)
when (CURYEAR > 0 and CURMONTH > 0 and A2_Q01a > 0 and A2_Q01b < 0) then FLOOR (((CURYEAR
* 12 + CURMONTH) - (A2_Q01a * 12 + 6)) / 12)
    else CI_AGE
  end
/*
```

AGE_BQDI

Variable Label

Age in 10 year bands (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1   "15-25 years old"
2   "26-35 years old"
3   "36-45 years old"
4   "46-55 years old"
5   "56-65 years old"
6   "66 and older"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

A2_D01b, DI_Q03

SQL code

```
*/
set AGE_BQDI = case
        when ((A2_D01b between 15 and 25) or (DI_Q03 = 1)) then 1
        when ((A2_D01b between 26 and 35) or (DI_Q03 = 2)) then 2
        when ((A2_D01b between 36 and 45) or (DI_Q03 = 3)) then 3
        when ((A2_D01b between 46 and 55) or (DI_Q03 = 4)) then 4
        when ((A2_D01b between 56 and 65) or (DI_Q03 = 5)) then 5
        when ((A2_D01b >= 66) or (DI_Q03 = 6)) then 6
        when (A2_D01b = -22 or DI_Q03 = -22) then -22
        when (A2_D01b = -33 or DI_Q03 = -33) then -33
    else -99
        end
/*
```

EDU_BQDI

Variable Label

Educational attainment in broad categories matching BQ and DI

Value Labels

Scale: ordinal (categorical)

1   "ISCED 0 approximately"

2   "ISCED 1 approximately"

3   "ISCED 2 approximately"

4   "ISCED 3 approximately"

5   "ISCED 4 or higher approximately"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q01, DI_Q04 = 1

SQL code

```
*/
set EDU_BQDI = case
        when ((B2_Q01 = 0) or (DI_Q04 = 1 or DI_Q04 = 2)) then 1
        when ((B2_Q01 = 1) or (DI_Q04 = 3)) then 2
        when ((B2_Q01 between 2 and 6) or (DI_Q04 = 4)) then 3
        when ((B2_Q01 between 7 and 18) or (DI_Q04 = 5)) then 4
        when ((B2_Q01 between 19 and 30) or (DI_Q04 = 6)) then 5
```

```
        when ((B2_Q01 = -22) or (DI_Q04 = -22)) then -22
        when ((B2_Q01 = -33) or (DI_Q04 = -33)) then -33
    else -99
        end
/*
```

EDU_BQDI_C

Variable Label

Educational attainment in broad categories matching BQ and DI (4 categories)

Value Labels

Scale: ordinal (categorical)

1   "ISCED 1 and below approximately"

2   "ISCED 2 approximately"

3   "ISCED 3 approximately"

4   "ISCED 4 or higher approximately"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EDU_BQDI

SQL code

```
*/
set     EDU_BQDI_C = case
                        when EDU_BQDI = 1 then 1
                        when EDU_BQDI = 2 then 1
                        when EDU_BQDI = 3 then 2
                        when EDU_BQDI = 4 then 3
                        when EDU_BQDI = 5 then 4
                        else EDU_BQDI
                        end
/*
```

SUBJSTATUS_BQDI

Variable Label

Subjective status (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1 "Full-time employed (self-employed, employed)"

2 "Part-time employed (self-employed, employed)"

3 "Unemployed"

4 "Pupil, student"

5 "Apprentice, intern"

6 "In retirement or early retirement"

7 "Permanently disabled"

8 "In compulsory military or community service"

9 "Fulfilling domestic tasks or looking after"

10 "Other"

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

Reference variables

C2_Q07, DI_Q05

SQL code

```
*/
set SUBJSTATUS_BQDI = case
        when (C2_Q07 = 1 or DI_Q05 = 1) then 1
        when (C2_Q07 = 2 or DI_Q05 = 2) then 2
        when (C2_Q07 = 3 or DI_Q05 = 3) then 3
        when (C2_Q07 = 4 or DI_Q05 = 4) then 4
        when (C2_Q07 = 5 or DI_Q05 = 5) then 5
        when (C2_Q07 = 6 or DI_Q05 = 6) then 6
        when (C2_Q07 = 7 or DI_Q05 = 7) then 7
        when C2_Q07 = 8 then 8
        when (C2_Q07 = 9 or DI_Q05 = 8) then 9
        when C2_Q07 = 10 then 10
        when (C2_Q07 = -22 or DI_Q05 = -22) then -22
        when (C2_Q07 = -33 or DI_Q05 = -33) then -33
    else -99
        end
/*
```

BIRTHCNTRY_BQDI

Variable Label

Country of birth (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1   "Country of interview"

2   "Other country"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip"

Reference variables

A2_Q03a, DI_Q06a

SQL code

```
*/
set BIRTHCNTRY_BQDI = case
        when (A2_Q03a = 1 or DI_Q06a = 1) then 1
        when (A2_Q03a = 2 or DI_Q06a = 2) then 2
        when (A2_Q03a = -22 or DI_Q06a = -22) then -22
        when (A2_Q03a = -33 or DI_Q06a = -33) then -33
    else -99
        end
/*
```

IMYRS_BQDI

Variable Label

Years in country (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1   "Less than 1 year"

2   "1 to 2 years"

3   "3 to 5 years"

4   "More than 5 years"

.   "Not administered"

.A   "Native born"

.N   "Not stated or inferred"

Reference variables

IMYRS, DI_Q06b, BIRTHCNTRY_BQDI

SQL code

```
*/
set IMYRS_BQDI = case
```

```
            when ((IMYRS < 1 and IMYRS not in (-88,-99,-66,-55,-22,-33)) or (DI_Q06b = 1)) then 1
            when ((IMYRS between 1 and 2) or (DI_Q06b = 2)) then 2
            when ((IMYRS between 3 and 5) or (DI_Q06b = 3)) then 3
            when ((IMYRS > 5) or (DI_Q06b = 4)) then 4
            when BIRTHCNTRY_BQDI = 1 then -55
            when (IMYRS = -99 or (DI_Q06b = -22 or DI_Q06b = -33)) then -33
        else -99
            end
/*
```

FIRLGRGN

Variable Label

Source region of first language learned at home in childhood and still understand (9 regions)

Value Labels

Scale: discrete (categorical)

1	"Arab States"
2	"South and West Asia"
3	"Latin America and the Caribbean"
4	"Sub-Saharan Africa"
5	"East Asia and the Pacific (poorer countries)"
6	"Central Asia"
7	"East Asia and the Pacific (richer countries)"
8	"Central and Eastern Europe"
9	"North America and Western Europe"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

LNG_L1

SQL code

```
*/
set FIRLGRGN = case
    when LNG_L1 in ('ara', 'kab', 'akk', 'ber', 'din', 'egy', 'ssa', 'syr', 'cop', 'nub', 'jrb', 'syc') then 1
    when LNG_L1 in ('asm', 'awa', 'bal', 'ben', 'bho', 'doi', 'guj', 'hin', 'kan', 'kas', 'kok', 'kur', 'lah', 'mag',
'mai','mal', 'mar', 'mwr', 'nep', 'ori', 'fas', 'raj', 'sat', 'snd', 'tam', 'tel', 'urd','dzo', 'inc', 'ira', 'pan', 'pus',
'sin', 'dzo', 'inc', 'nwc', 'pal', 'peo') then 2
    when LNG_L1 in ('grn', 'que', 'car', 'cpe', 'cpf', 'cpp', 'crp', 'hat', 'pap', 'arn', 'aym', 'cai', 'myn', 'sai',
'srn') then 3
    when LNG_L1 in ('afr', 'aka', 'amh', 'bem', 'luo', 'ewe', 'ful', 'lug', 'hau', 'ibo', 'kam', 'kau', 'kmb',
'kon', 'mlg', 'man', 'orm', 'run', 'sna', 'som', 'suk', 'tso', 'tsn', 'umb', 'wol', 'xho', 'yor', 'zul', 'aar', 'ada',
'bai', 'bam', 'bas', 'bin', 'bnt', 'byn', 'dua', 'fat', 'fon', 'gaa', 'gba', 'kik', 'kin', 'kpe', 'kro', 'lin', 'loz', 'lua',
```

'men', 'nde', 'nic', 'nya', 'sag', 'snk', 'sot', 'srr', 'sus', 'swa', 'tem', 'tig', 'tir', 'twi', 'ach', 'dyu', 'efi', 'nzi', 'ewo', 'fan', 'lub', 'mos', 'nbl', 'nso', 'nyo') then 4

    when LNG_L1 in ('ban', 'bik', 'mya', 'ceb', 'zho', 'hil', 'hmn', 'ind', 'jav', 'lao', 'msa', 'min', 'shn', 'tgl', 'tha', 'vie', 'bod', 'btk', 'chk', 'fil', 'ilo', 'kac', 'kar', 'khm', 'kho', 'map', 'mdr', 'mri', 'pag', 'pam', 'pau', 'phi', 'sit', 'tai', 'tet', 'ton', 'uig', 'war', 'zha', 'hmo', 'fij', 'mak', 'bis', 'gil', 'iii', 'mad', 'mah', 'mkh', 'mno', 'niu', 'paa', 'pon', 'rar', 'smo', 'sun', 'tah', 'tkl', 'tpi', 'tvl', 'cha') then 5

    when LNG_L1 in ('hye', 'aze', 'kat', 'kaz', 'mon', 'tuk', 'uzb', 'abk', 'abk', 'cau', 'kir', 'tgk', 'new') then 6

    when LNG_L1 in ('jpn', 'kor', 'aus') then 7

    when LNG_L1 in ('sqi', 'bel', 'bul', 'hrv', 'ces', 'est', 'hun', 'lav', 'lit', 'pol', 'rus', 'srp', 'slk', 'tat', 'tur', 'ukr', 'bos', 'che', 'chv', 'csb', 'dar', 'fur', 'inh', 'kom', 'mkd', 'oss', 'rom', 'ron', 'sla', 'slv', 'udm', 'zza', 'krl', 'grc', 'glv', 'bak', 'bat', 'kum', 'lez', 'mdf', 'rup', 'sah') then 8

    when LNG_L1 in ('bre', 'cat', 'dan', 'nld', 'eng', 'fin', 'fra', 'glg', 'deu', 'heb', 'gle', 'ita', 'mlt', 'nor', 'por', 'scn', 'swe', 'alg', 'ath', 'bla', 'cel', 'chp', 'cre', 'cym', 'dak', 'den', 'dgr', 'ell', 'eus', 'fao', 'fry', 'gem', 'gla', 'gsw', 'gwi', 'iku', 'iro', 'isl', 'kal', 'mic', 'moh', 'nds', 'non', 'oji', 'oci', 'roa', 'roh', 'sal', 'sco', 'smi', 'spa', 'srd', 'tli', 'wak', 'wln', 'lat', 'sio', 'kal', 'ast', 'cor', 'cos', 'dum', 'frr', 'frs', 'ipk', 'lim', 'ltz', 'nai', 'nap', 'nav', 'sam', 'sma', 'sme', 'tsi', 'ltz') then 9

    when LNG_L1 in ('afa', 'arc', 'ine', 'mis', 'mul', 'sem', 'sgn', 'und', 'yid', 'zxx', 'epo', 'cus', 'ile', 'jpr', 'lad', 'uga') then '-99'

    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'

    when LNG_L1 = '' then '-99'

    when LNG_L1 = '-66' then '-66'

    when LNG_L1 = '-22' then '-22'

    when LNG_L1 = '-33' then '-33'

    when LNG_L1 = '-88' then '-88'

    when LNG_L1 = '-99' then '-99'

    else '-99'

    end

/*

FLGRGN_UN

Variable Label

Source geographical region of first language learned at home in childhood and still understand (UN classification)

Value Labels

Scale: discrete (categorical)

1	"Africa"
2	"Americas"
3	"Asia"
4	"Europe"
5	"Oceania"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
LNG_L1

SQL code
*/

```
set FLGRGN_UN = case
    when LNG_L1 in ('aar', 'ach', 'ada', 'afh', 'afr', 'aka', 'bad', 'bai', 'bam', 'bas', 'bej', 'bem', 'ber', 'bin',
'bnt', 'byn', 'cop', 'cus', 'din', 'dua', 'dyu', 'efi', 'egy', 'eka', 'ewe', 'ewo', 'fan', 'fat', 'fon', 'ful', 'gaa', 'gba',
'gez', 'grb', 'hau', 'her', 'ibo', 'ijo', 'kab', 'kam', 'kau', 'khi', 'kik', 'kin', 'kmb', 'kon', 'kpe', 'kro', 'kua', 'lam',
'lin', 'lol', 'loz', 'lua', 'lub', 'lug', 'lun', 'luo', 'man', 'mas', 'men', 'mos', 'nbl', 'nde', 'ndo', 'nic', 'nko', 'nso',
'nub', 'nya', 'nym', 'nyn', 'nyo', 'nzi', 'orm', 'run', 'sad', 'sag', 'sid', 'sna', 'snk', 'som', 'son', 'sot', 'srr', 'ssa',
'ssw', 'suk', 'sus', 'swa', 'tem', 'tig', 'tir', 'tiv', 'tmh', 'tog', 'tsn', 'tso', 'tum', 'twi', 'umb', 'vai', 'ven', 'wal',
'wol', 'xho', 'yao', 'yor', 'zen', 'zgh', 'znd', 'zul') then 1
    when LNG_L1 in ('ale', 'alg', 'apa', 'arn', 'arp', 'arw', 'ath', 'aym', 'bla', 'cad', 'cai', 'car', 'chb', 'chn',
'cho', 'chp', 'chr', 'chy', 'cpe', 'cpf', 'cpp', 'cre', 'dak', 'del', 'den', 'dgr', 'grn', 'gwi', 'hai', 'hat', 'haw', 'hup',
'iku', 'ipk', 'iro', 'kal', 'kut', 'lui', 'mic', 'moh', 'mus', 'myn', 'nah', 'nai', 'nav', 'oji', 'osa', 'oto', 'pap', 'que',
'rap', 'sai', 'sal', 'sio', 'srn', 'ter', 'tli', 'tsi', 'tup', 'wak', 'was', 'ypk', 'zap', 'zun') then 2
    when LNG_L1 in ('abk', 'ace', 'ady', 'ain', 'akk', 'alt', 'amh', 'ang', 'ara', 'asm', 'ava', 'ave', 'awa', 'aze',
'bak', 'bal', 'ban', 'ben', 'bho', 'bih', 'bik', 'bod', 'bra', 'btk', 'bua', 'bug', 'cau', 'ceb', 'cha', 'che', 'chg',
'chm', 'chv', 'cmc', 'crh', 'dar', 'day', 'div', 'doi', 'dra', 'dzo', 'elx', 'fas', 'per', 'fil', 'gay', 'gon', 'gor', 'guj',
'heb', 'hil', 'him', 'hin', 'hit', 'hmn', 'hye', 'arm', 'iba', 'iii', 'ilo', 'inc', 'ind', 'inh', 'ira', 'jav', 'jpn', 'jpr', 'jrb',
'kaa', 'kac', 'kan', 'kar', 'kas', 'kat', 'geo', 'kaw', 'kaz', 'kbd', 'kha', 'khm', 'kho', 'kir', 'kok', 'kom', 'kor', 'krc',
'kru', 'kum', 'kur', 'lah', 'lao', 'lez', 'lus', 'mad', 'mag', 'mai', 'mak', 'mal', 'mar', 'mdf','min', 'mkh', 'mlg',
'mnc', 'mni', 'mno', 'mon', 'msa', 'may', 'mun', 'mur', 'mya', 'bur', 'myv', 'nep', 'new', 'nia', 'nog', 'nwc',
'ori', 'oss', 'ota', 'pag', 'pal', 'pam', 'pan', 'peo', 'phi', 'phn', 'pli', 'pra', 'pus', 'raj', 'sah', 'sam', 'san', 'sas',
'sat', 'sel', 'shn', 'sin', 'sit', 'snd', 'sog', 'sun', 'sux', 'syc', 'syr', 'tai', 'tam', 'tat', 'tel', 'tet', 'tgk', 'tgl', 'tha',
'tuk', 'tur', 'tut', 'tyv', 'udm', 'uga', 'uig', 'urd', 'uzb', 'vie', 'war', 'xal', 'zha', 'zho', 'chi', 'zza') then 3
    when LNG_L1 in ('ang', 'arg', 'ast', 'bat', 'bel', 'bos', 'bre', 'bul', 'cat', 'cel', 'ces', 'cze', 'chu', 'cnr',
'cor', 'cos', 'csb', 'cym', 'wel', 'dan', 'deu', 'ger', 'dsb', 'dum', 'ell', 'gre', 'eng', 'enm', 'est', 'eus', 'baq',
'fao', 'fin', 'fiu', 'fra', 'fre', 'frm', 'fro', 'frr', 'frs', 'fry', 'fur', 'gem', 'gla', 'gle', 'glg', 'glv', 'gmh', 'goh', 'got',
'grc', 'gsw', 'hrv', 'hsb', 'hun', 'isl', 'ice', 'ita', 'krl', 'lad', 'lat', 'lav', 'lim', 'lit', 'ltz', 'mga', 'mkd', 'mac', 'mlt',
'mwl', 'nap', 'nds', 'nld', 'dut', 'nno', 'nob', 'nor', 'oci', 'pol', 'pro', 'roa', 'roh', 'rom', 'ron', 'rum',
'rup', 'rus', 'scn', 'sco', 'sga', 'sla', 'slk', 'slo', 'slv', 'sma', 'sme', 'smi', 'smj', 'smn', 'sms', 'spa', 'sqi', 'alb',
'srd', 'srp', 'swe', 'ukr', 'vot', 'wen', 'wln') then 4
    when LNG_L1 in ('aus', 'bis', 'chk', 'fij', 'gil', 'hmo', 'kos', 'mah', 'map', 'mdr', 'mri', 'mao', 'nau', 'niu',
'paa', 'pau', 'pon', 'rar', 'smo', 'tah', 'tkl', 'ton', 'tpi', 'tvl', 'yap') then 5
    when LNG_L1 in ('afa', 'arc', 'art', 'crp', 'epo', 'ido', 'ile', 'ina', 'ine', 'jbo', 'mis', 'mul', 'qaa', 'qtz',
'sem', 'sgn', 'tlh', 'und', 'vol', 'yid', 'zbl', 'zxx') then '-99'
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when LNG_L1 = '' then -99
    when LNG_L1 = '-66' then -66
    when LNG_L1 = '-22' then -22
    when LNG_L1 = '-33' then -33
    when LNG_L1 = '-88' then -88
    when LNG_L1 = '-99' then -99
    else -99
    end
/*
```

SLGRGN_UN

Variable Label

Source geographical region of second language learned at home in childhood and still understand (5 regions)

Value Labels

Scale: discrete (categorical)

1	"Africa"
2	"Americas"
3	"Asia"
4	"Europe"
5	"Oceania"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

LNG_L2

SQL code

```
*/
set SLGRGN_UN = case
        when LNG_L2 in ('aar', 'ach', 'ada', 'afh', 'afr', 'aka', 'bad', 'bai', 'bam', 'bas', 'bej', 'bem', 'ber',
'bin', 'bnt', 'byn', 'cop', 'cus', 'din', 'dua', 'dyu', 'efi', 'egy', 'eka', 'ewe', 'ewo', 'fan', 'fat', 'fon',  'ful', 'gaa',
'gba', 'gez', 'grb', 'hau', 'her', 'ibo', 'ijo', 'kab', 'kam', 'kau', 'khi', 'kik', 'kin', 'kmb', 'kon', 'kpe', 'kro', 'kua',
'lam', 'lin', 'lol', 'loz', 'lua', 'lub', 'lug', 'lun', 'luo', 'man', 'mas', 'men', 'mos', 'nbl', 'nde', 'ndo', 'nic', 'nko',
'nso', 'nub', 'nya', 'nym', 'nyn', 'nyo', 'nzi', 'orm', 'run', 'sad', 'sag', 'sid', 'sna', 'snk', 'som', 'son', 'sot',
'srr', 'ssa', 'ssw', 'suk', 'sus', 'swa', 'tem', 'tig', 'tir', 'tiv', 'tmh', 'tog', 'tsn', 'tso', 'tum', 'twi', 'umb', 'vai',
'ven', 'wal', 'wol', 'xho', 'yao', 'yor', 'zen', 'zgh', 'znd', 'zul') then 1
        when LNG_L2 in ('ale', 'alg', 'apa', 'arn', 'arp', 'arw', 'ath', 'aym', 'bla', 'cad', 'cai', 'car', 'chb',
'chn', 'cho', 'chp', 'chr', 'chy', 'cpe', 'cpf', 'cpp', 'cre', 'dak', 'del', 'den', 'dgr', 'grn', 'gwi', 'hai', 'hat', 'haw',
'hup', 'iku', 'ipk', 'iro', 'kal', 'kut', 'lui', 'mic', 'moh', 'mus', 'myn', 'nah', 'nai', 'nav', 'oji', 'osa', 'oto', 'pap',
'que', 'rap', 'sai', 'sal', 'sio', 'srn', 'ter', 'tli', 'tsi', 'tup', 'wak', 'was', 'ypk', 'zap', 'zun') then 2
        when LNG_L2 in ('abk', 'ace', 'ady', 'ain', 'akk', 'alt', 'amh', 'ang', 'ara',  'asm', 'ava', 'ave', 'awa',
'aze', 'bak', 'bal', 'ban', 'ben', 'bho', 'bih', 'bik', 'bod', 'bra', 'btk', 'bua', 'bug', 'cau', 'ceb', 'cha', 'che',
'chg', 'chm', 'chv', 'cmc', 'crh', 'dar', 'day', 'div', 'doi', 'dra', 'dzo', 'elx', 'fas', 'per', 'fil', 'gay', 'gon', 'gor',
'guj', 'heb', 'hil', 'him', 'hin', 'hit', 'hmn', 'hye', 'arm', 'iba', 'iii', 'ilo', 'inc', 'ind', 'inh', 'ira', 'jav', 'jpn', 'jpr',
'jrb', 'kaa', 'kac', 'kan', 'kar', 'kas', 'kat', 'geo', 'kaw', 'kaz', 'kbd', 'kha', 'khm', 'kho', 'kir', 'kok', 'kom', 'kor',
'krc', 'kru', 'kum', 'kur', 'lah', 'lao', 'lez', 'lus', 'mad', 'mag', 'mai', 'mak', 'mal', 'mar', 'mdf','min', 'mkh',
'mlg', 'mnc', 'mni', 'mno', 'mon', 'msa', 'may', 'mun', 'mur', 'mya', 'bur', 'myv', 'nep', 'new', 'nia', 'nog',
'nwc', 'ori', 'oss', 'ota', 'pag', 'pal', 'pam', 'pan', 'peo', 'phi', 'phn', 'pli', 'pra', 'pus', 'raj', 'sah', 'sam', 'san',
'sas', 'sat', 'sel', 'shn', 'sin', 'sit', 'snd', 'sog', 'sun', 'sux', 'syc', 'syr', 'tai', 'tam', 'tat', 'tel', 'tet', 'tgk', 'tgl',
'tha', 'tuk', 'tur', 'tut', 'tyv', 'udm', 'uga', 'uig', 'urd', 'uzb', 'vie', 'war', 'xal', 'zha', 'zho', 'chi', 'zza') then 3
        when LNG_L2 in ('ang', 'arg', 'ast', 'bat', 'bel', 'bos', 'bre', 'bul', 'cat', 'cel', 'ces', 'cze', 'chu', 'cnr',
'cor', 'cos', 'csb', 'cym', 'wel', 'dan', 'deu', 'ger', 'dsb', 'dum', 'ell', 'gre', 'eng', 'enm', 'est', 'eus', 'baq',
```

'fao', 'fin', 'fiu', 'fra', 'fre', 'frm', 'fro', 'frr', 'frs', 'fry', 'fur', 'gem', 'gla', 'gle', 'glg', 'glv', 'gmh', 'goh', 'got', 'grc', 'gsw', 'hrv', 'hsb', 'hun', 'isl', 'ice', 'ita', 'krl', 'lad', 'lat', 'lav', 'lim', 'lit', 'ltz', 'mga', 'mkd', 'mac', 'mlt', 'mwl', 'nap', 'nds', 'nld', 'dut', 'nno', 'nob', 'non', 'nor', 'oci', 'pol', 'pro', 'roa', 'roh', 'rom', 'ron', 'rum', 'rup', 'rus', 'scn', 'sco', 'sga', 'sla', 'slk', 'slo', 'slv', 'sma', 'sme', 'smi', 'smj', 'smn', 'sms', 'spa', 'sqi', 'alb', 'srd', 'srp', 'swe', 'ukr', 'vot', 'wen', 'wln') then 4

       when LNG_L2 in ('aus', 'bis', 'chk', 'fij', 'gil', 'hmo', 'kos', 'mah', 'map', 'mdr', 'mri', 'mao', 'nau', 'niu', 'paa', 'pau', 'pon', 'rar', 'smo', 'tah', 'tkl', 'ton', 'tpi', 'tvl', 'yap') then 5

       when LNG_L2 in ('afa', 'arc', 'art', 'crp', 'epo', 'ido', 'ile', 'ina', 'ine', 'jbo', 'mis', 'mul', 'qaa', 'qtz', 'sem', 'sgn', 'tlh', 'und', 'vol', 'yid', 'zbl', 'zxx') then '-99'

    when DISP_CIBQ = -88 or DISP_DS > 0 then -88

    when LNG_L2 = '' then -99

    when LNG_L2 = '-66' then -66

    when LNG_L2 = '-22' then -22

    when LNG_L2 = '-33' then -33

    when LNG_L2 = '-88' then -88

    when LNG_L2 = '-99' then -99

    else -99

    end

/*

SECLGRGN

Variable Label

Source region of second language learned at home in childhood and still understand (9 regions)

Value Labels

Scale: discrete (categorical)

1   "Arab States"

2   "South and West Asia"

3   "Latin America and the Caribbean"

4   "Sub-Saharan Africa"

5   "East Asia and the Pacific (poorer countries)"

6   "Central Asia"

7   "East Asia and the Pacific (richer countries)"

8   "Central and Eastern Europe"

9   "North America and Western Europe"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

LNG_L2

SQL code

*/

```
set SECLGRGN = case
    when LNG_L2 in ('ara', 'kab', 'akk', 'ber', 'cop', 'din', 'nub', 'syr', 'egy', 'jrb', 'syc') then 1
    when LNG_L2 in ('asm', 'awa', 'bal', 'ben', 'bho', 'doi', 'guj', 'hin', 'kan', 'kas', 'kok', 'kur', 'lah', 'mag',
'mai', 'mal', 'mar', 'mwr', 'nep', 'ori', 'fas', 'raj', 'sat', 'snd', 'tam', 'tel', 'urd', 'pan', 'pus', 'sin', 'ira', 'dzo',
'inc', 'nwc', 'pal', 'peo') then 2
    when LNG_L2 in ('grn', 'que', 'cpe', 'cpp', 'crp', 'pap', 'cpf', 'hat', 'car', 'arn', 'aym', 'cai', 'myn', 'sai',
'srn') then 3
    when LNG_L2 in ('aar', 'afr', 'aka', 'amh', 'bas', 'bem', 'luo', 'ewe', 'ful', 'lug', 'hau', 'ibo', 'kin', 'kam',
'kau', 'kmb', 'kon', 'mlg', 'man', 'orm', 'run', 'sna', 'som', 'suk', 'tso', 'tsn', 'umb', 'wol', 'xho', 'yor', 'zul',
'ach', 'ada', 'bam', 'bin', 'bnt', 'dyu', 'efi', 'fat', 'kik', 'lin', 'men', 'nic', 'nzi', 'sag', 'snk', 'srr', 'sus', 'swa',
'tig', 'tir', 'twi', 'bai', 'bas', 'byn', 'dua', 'gaa', 'kin', 'kro', 'sot', 'fon', 'gba', 'kpe', 'loz', 'lua', 'nde','nya',
'tem', 'ewo', 'fan', 'lub', 'mos', 'nbl', 'nso', 'nyo') then 4
    when LNG_L2 in ('ban', 'bik', 'mya', 'ceb', 'zho', 'hil', 'hmn', 'ind', 'jav', 'lao', 'msa', 'min', 'mri', 'shn',
'tgl', 'tha', 'vie', 'btk', 'fij', 'fil', 'hmo', 'ilo', 'kar', 'khm', 'pau', 'phi', 'tai', 'zha', 'bod', 'chk', 'kac', 'mri',
'pag', 'pam', 'sit', 'tet', 'ton', 'uig', 'war', 'mdr', 'hmo', 'fij', 'mak', 'bis', 'gil', 'iii', 'mad', 'mah', 'mkh', 'mno',
'niu', 'paa', 'pon', 'rar', 'smo', 'sun', 'tah', 'tkl', 'tpi', 'tvl', 'cha') then 5
    when LNG_L2 in ('hye', 'aze', 'kat', 'kaz', 'mon', 'tuk', 'uzb', 'abk', 'cau', 'kir', 'tgk', 'new') then 6
    when LNG_L2 in ('jpn', 'kor', 'aus') then 7
    when LNG_L2 in ('sqi', 'bel', 'bul', 'hrv', 'ces', 'est', 'hun', 'lav', 'lit', 'pol', 'rus', 'srp', 'slk', 'tat', 'tur',
'ukr', 'bos', 'csb', 'fur', 'krl', 'mkd', 'rom', 'ron', 'sla', 'slv', 'che', 'chv', 'dar', 'inh', 'kom', 'oss', 'udm', 'zza',
'bak', 'bat', 'kum', 'lez', 'mdf', 'rup', 'sah') then 8
    when LNG_L2 in ('bre', 'cat', 'dan', 'nld', 'eng', 'fin', 'fra', 'glg', 'deu', 'heb', 'gle', 'ita', 'mlt', 'nor',
'por', 'scn', 'swe', 'ath', 'chp', 'cre', 'cym', 'den', 'dgr', 'ell', 'eus', 'fao', 'fry', 'gla', 'glv', 'grc', 'gsw', 'gwi',
'iku', 'iro', 'isl', 'lat', 'oji', 'oci', 'roa', 'sco', 'sio', 'smi', 'spa', 'srd', 'tli', 'wln', 'dak', 'gem', 'kal', 'moh', 'sal',
'wak', 'alg', 'bla', 'cel', 'non', 'nds', 'kal', 'mic', 'roh', 'ast', 'cor', 'cos', 'dum', 'frr', 'frs', 'ipk', 'lim', 'ltz', 'nai',
'nap', 'nav', 'sam', 'sma', 'sme', 'tsi', 'ltz') then 9
    when LNG_L2 in ('afa', 'arc', 'epo', 'ine', 'mul', 'sem', 'sgn', 'und', 'yid', 'zxx', 'mis', 'cus', 'ile', 'jpr',
'lad', 'uga') then '-99'
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when LNG_L2 = '' then -99
    when LNG_L2 = '-66' then -66
    when LNG_L2 = '-22' then -22
    when LNG_L2 = '-33' then -33
    when LNG_L2 = '-88' then -88
    when LNG_L2 = '-99' then -99
    else -99
    end
/*
```

Variable Label

Source geographical region of language spoken most often at home (UN classification)

Value Labels

Scale: discrete (categorical)

1   "Africa"

2   "Americas"

3   "Asia"

4   "Europe"

5   "Oceania"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

LNG_HOME

SQL code

```
*/
when LNG_HOME in ('aar', 'ach', 'ada', 'afh', 'afr', 'aka', 'bad', 'bai', 'bam', 'bas', 'bej', 'bem', 'ber', 'bin',
'bnt', 'byn', 'cop', 'cus', 'din', 'dua', 'dyu', 'efi', 'egy', 'eka', 'ewe', 'ewo', 'fan', 'fat', 'fon',  'ful', 'gaa', 'gba',
'gez', 'grb', 'hau', 'her', 'ibo', 'ijo', 'kab', 'kam', 'kau', 'khi', 'kik', 'kin', 'kmb', 'kon', 'kpe', 'kro', 'kua', 'lam',
'lin', 'lol', 'loz', 'lua', 'lub', 'lug', 'lun', 'luo', 'man', 'mas', 'men', 'mos', 'nbl', 'nde', 'ndo', 'nic', 'nko', 'nso',
'nub', 'nya', 'nym', 'nyn', 'nyo', 'nzi', 'orm', 'run', 'sad', 'sag', 'sid', 'sna', 'snk', 'som', 'son', 'sot', 'srr', 'ssa',
'ssw', 'suk', 'sus', 'swa', 'tem', 'tig', 'tir', 'tiv', 'tmh', 'tog', 'tsn', 'tso', 'tum', 'twi', 'umb', 'vai', 'ven', 'wal',
'wol', 'xho', 'yao', 'yor', 'zen', 'zgh', 'znd', 'zul') then 1
     when LNG_HOME in ('ale', 'alg', 'apa', 'arn', 'arp', 'arw', 'ath', 'aym', 'bla', 'cad', 'cai', 'car', 'chb',
'chn', 'cho', 'chp', 'chr', 'chy', 'cpe', 'cpf', 'cpp', 'cre', 'dak', 'del', 'den', 'dgr', 'grn', 'gwi', 'hai', 'hat', 'haw',
'hup', 'iku', 'ipk', 'iro', 'kal', 'kut', 'lui', 'mic', 'moh', 'mus', 'myn', 'nah', 'nai', 'nav', 'oji', 'osa', 'oto', 'pap',
'que', 'rap', 'sai', 'sal', 'sio', 'srn', 'ter', 'tli', 'tsi', 'tup', 'wak', 'was', 'ypk', 'zap', 'zun') then 2
     when LNG_HOME in ('abk', 'ace', 'ady', 'ain', 'akk', 'alt', 'amh', 'ang', 'ara',  'asm', 'ava', 'ave', 'awa',
'aze', 'bak', 'bal', 'ban', 'ben', 'bho', 'bih', 'bik', 'bod', 'bra', 'btk', 'bua', 'bug', 'cau', 'ceb', 'cha', 'che',
'chg', 'chm', 'chv', 'cmc', 'crh', 'dar', 'day', 'div', 'doi', 'dra', 'dzo', 'elx', 'fas', 'per', 'fil', 'gay', 'gon', 'gor',
'guj', 'heb', 'hil', 'him', 'hin', 'hit', 'hmn', 'hye', 'arm', 'iba', 'iii', 'ilo', 'inc', 'ind', 'inh', 'ira', 'jav', 'jpn', 'jpr',
'jrb', 'kaa', 'kac', 'kan', 'kar', 'kas', 'kat', 'geo', 'kaw', 'kaz', 'kbd', 'kha', 'khm', 'kho', 'kir', 'kok', 'kom', 'kor',
'krc', 'kru', 'kum', 'kur', 'lah', 'lao', 'lez', 'lus', 'mad', 'mag', 'mai', 'mak', 'mal', 'mar', 'mdf','min', 'mkh',
'mlg', 'mnc', 'mni', 'mno', 'mon', 'msa', 'may', 'mun', 'mur', 'mya', 'bur', 'myv', 'nep', 'new', 'nia', 'nog',
'nwc', 'ori', 'oss', 'ota', 'pag', 'pal', 'pam', 'pan', 'peo', 'phi', 'phn', 'pli', 'pra', 'pus', 'raj', 'sah', 'sam', 'san',
'sas', 'sat', 'sel', 'shn', 'sin', 'sit', 'snd', 'sog', 'sun', 'sux', 'syc', 'syr', 'tai', 'tam', 'tat', 'tel', 'tet', 'tgk', 'tgl',
'tha', 'tuk', 'tur', 'tut', 'tyv', 'udm', 'uga', 'uig', 'urd', 'uzb', 'vie', 'war', 'xal', 'zha', 'zho', 'chi', 'zza') then 3
     when LNG_HOME in ('ang', 'arg', 'ast', 'bat', 'bel', 'bos', 'bre', 'bul', 'cat', 'cel', 'ces', 'cze', 'chu', 'cnr',
'cor', 'cos', 'csb', 'cym', 'wel', 'dan', 'deu', 'ger', 'dsb', 'dum', 'ell', 'gre', 'eng', 'enm', 'est', 'eus', 'baq',
'fao', 'fin', 'fiu', 'fra', 'fre', 'frm', 'fro', 'frr', 'frs', 'fry', 'fur', 'gem', 'gla', 'gle', 'glg', 'glv', 'gmh', 'goh', 'got',
'grc', 'gsw', 'hrv', 'hsb', 'hun', 'isl', 'ice', 'ita', 'krl', 'lad', 'lat', 'lav', 'lim', 'lit', 'ltz', 'mga', 'mkd', 'mac', 'mlt',
```

'mwl', 'nap', 'nds', 'nld', 'dut', 'nno', 'nob', 'non', 'nor', 'oci', 'pol', 'pro', 'roa', 'roh', 'rom', 'ron', 'rum', 'rup', 'rus', 'scn', 'sco', 'sga', 'sla', 'slk', 'slo', 'slv', 'sma', 'sme', 'smi', 'smj', 'smn', 'sms', 'spa', 'sqi', 'alb', 'srd', 'srp', 'swe', 'ukr', 'vot', 'wen', 'wln') then 4
    when LNG_HOME in ('aus', 'bis', 'chk', 'fij', 'gil', 'hmo', 'kos', 'mah', 'map', 'mdr', 'mri', 'mao', 'nau', 'niu', 'paa', 'pau', 'pon', 'rar', 'smo', 'tah', 'tkl', 'ton', 'tpi', 'tvl', 'yap') then 5
    when LNG_HOME in ('afa', 'arc', 'art', 'crp', 'epo', 'ido', 'ile', 'ina', 'ine', 'jbo', 'mis', 'mul', 'qaa', 'qtz', 'sem', 'sgn', 'tlh', 'und', 'vol', 'yid', 'zbl', 'zxx') then '-99'
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when LNG_HOME = '' then -99
    when LNG_HOME = '-66' then -66
    when LNG_HOME = '-22' then -22
    when LNG_HOME = '-33' then -33
    when LNG_HOME = '-88' then -88
    when LNG_HOME = '-99' then -99
    else -99
    end
/*

CQRGN_UN

Variable Label

Country where highest qualification obtained (region according to UN classification)

Value Labels

Scale: discrete (categorical)

1   "Africa"
2   "Americas"
3   "Asia"
4   "Europe"
5   "Oceania"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

CNT_H

SQL code

*/
set CQRGN_UN = case
    when CNT_H in (12, 24, 204, 72, 86, 854, 108, 132, 120, 140, 148, 174, 178, 180, 384, 192, 531, 262, 818, 226, 232, 748, 231, 260, 266, 270, 288, 324, 624, 404, 426, 430, 434, 450, 454, 466, 478, 480, 175, 504, 508, 516, 562, 566, 646, 654, 678, 686, 690, 694, 706, 710, 728, 729, 834, 768, 788, 800, 894, 716) then 1

when CNT_H in (660, 28, 32, 533, 44, 52, 84, 60, 68, 531, 535, 74, 76, 124, 136, 152, 170, 188, 212, 214, 218, 222, 238, 304, 308, 320, 328, 332, 340, 388, 474, 484, 500, 558, 591, 600, 604, 630, 652, 659, 662, 663, 666, 670, 534, 239, 740, 780, 796, 840, 858, 862, 92, 850) then 2
when CNT_H in (4, 31, 48, 50, 64, 96, 116, 156, 196, 268, 344, 356, 360, 364, 368, 376, 392, 400, 398, 408, 410, 414, 417, 418, 422, 446, 458, 462, 496, 104, 524, 512, 586, 275, 608, 634, 682, 702, 144, 760, 158, 762, 764, 626, 792, 795, 784, 860, 704, 887) then 3
when CNT_H in (248, 8, 20, 51, 40, 112, 56, 70, 100, 191, 203, 208, 233, 234, 246, 250, 276, 292, 300, 831, 336, 348, 352, 372, 833, 380, 832, 428, 438, 440, 442, 470, 498, 492, 499, 528, 807, 578, 616, 620, 642, 643, 674, 688, 703, 705, 724, 744, 752, 756, 804, 826) then 4
when CNT_H in (16, 36, 162, 166, 184, 242, 316, 334, 296, 584, 583, 520, 540, 554, 570, 574, 580, 585, 598, 612, 882, 90, 772, 776, 798, 581, 548, 876) then 5
when CNT_H in (254, 258, 312, 638) then -99
when DISP_CIBQ = -88 or DISP_DS > 0 then -88
when CNT_H = -88 then -99
else -99
end
/*

NATIVELANG

Variable Label

Test language same as native language

Value Labels

Scale: discrete (categorical)

0   "Test language not same as native language"

1   "Test language same as native language"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

LNG_CI, LNG_L1, LNG_L2

SQL code

```
*/
set NATIVELANG = case
        when (LNG_L1 not in ('', '-66', '-77', '-88', '-99') and LNG_CI = LNG_L1) or (LNG_L2 not in ('', '-66', '-77', '-88', '-99') and LNG_CI= LNG_L2) then 1
        when (LNG_L1 not in ('', '-66', '-77', '-88', '-99') and LNG_CI not in ('-99') and LNG_CI <> LNG_L1) and LNG_CI <> LNG_L2 then 0
        when (LNG_L2 not in ('','-66', '-77', '-88', '-99') and LNG_CI not in ('-99') and LNG_CI <> LNG_L2) and LNG_CI <> LNG_L1 then 0
        when LNG_L1 in ('', '-66', '-77', '-88', '-99') and LNG_L2 = '-77' then -77
        when LNG_L1 in ('', '-66', '-77', '-88', '-99') and LNG_L2 = '-88' then -88
        when LNG_L2 in ('', '-66', '-77', '-88', '-99') and LNG_L1 = '-99' then -77
        when LNG_L2 in ('', '-66', '-77', '-88', '-99') and LNG_L1 = '-88' then -88
```

```
        when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      else -99
  end
/*
```

NATBILANG

Variable Label

Has learned as a child and still understands at least two languages including test language

Value Labels

Scale: binary (categorical)

0	"Monolingual or at least bilingual not including test language"
1	"At least bilingual including test language"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

LNG_CI, LNG_L1, LNG_L2

SQL code

```
*/
set NATBILANG = case
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') and LNG_L2 not in ('','-66','-22','-33','-88','-99')
and LNG_L1 <> LNG_L2 and (LNG_CI = LNG_L1 OR LNG_CI = LNG_L2) then 1
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') then 0
    when LNG_L2 not in ('','-66','-22','-33','-88','-99') then 0
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') and LNG_L2 not in ('','-66','-22','-33','-88','-99')
then 0
    when LNG_L1 = '-22' and LNG_L2 in ('','-66','-22','-33','-88','-99') then -22
    when LNG_L2 = '-22' and LNG_L1 in ('','-66','-22','-33','-88','-99') then -22
    when LNG_L1 = '-33' and LNG_L2 in ('','-66','-22','-33','-88','-99') then -33
    when LNG_L2 = '-33' and LNG_L1 in ('','-66','-22','-33','-88','-99') then -33
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

FORBILANG

Variable Label

Has learned as a child and still understands at least two languages not including test language

Value Labels

Scale: binary (categorical)

0   "Monolingual or at least bilingual including test language"

1   "At least bilingual not including test language"

.   "Undefined missing data"

.N   "Not stated or inferred"

Reference variables

LNG_CI, LNG_L1, LNG_L2

SQL code

```
*/
set FORBILANG = case
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') and LNG_L2 not in ('','-66','-22','-33','-88','-99')
and LNG_CI not in ('-99') and LNG_L1 <> LNG_L2 and LNG_CI <> LNG_L1 and LNG_CI <> LNG_L2 then
1
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') then 0
    when LNG_L2 not in ('','-66','-22','-33','-88','-99') then 0
    when LNG_L1 not in ('','-66','-22','-33','-88','-99') and LNG_L2 not in ('','-66','-22','-33','-88','-99')
then 0
    when LNG_L1 = '-22' and LNG_L2 in ('','-66','-22','-33','-88','-99') then -22
    when LNG_L2 = '-22' and LNG_L1 in ('','-66','-22','-33','-88','-99') then -22
    when LNG_L1 = '-33' and LNG_L2 in ('','-66','-22','-33','-88','-99') then -33
    when LNG_L2 = '-33' and LNG_L1 in ('','-66','-22','-33','-88','-99') then -33
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else -99
    end
/*
```

BORNLANG

Variable Label

Interactions between place of birth and language status

Value Labels

Scale: discrete (categorical)

1   "Native-born and native-language"

2   "Native-born and foreign-language"

3   "Foreign-born and native-language"

3   "Foreign-born and foreign-language"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

A2_Q03a, NATIVELANG

```
*/
set BORNLANG = case
    when A2_Q03a = 1 and NATIVELANG = 1 then 1
    when A2_Q03a = 1 and NATIVELANG = 0 then 2
    when A2_Q03a = 2 and NATIVELANG = 1 then 3
    when A2_Q03a = 2 and NATIVELANG = 0 then 4
    when A2_Q03a = -22 and NATIVELANG = -22 then -22
    when A2_Q03a = -33 and NATIVELANG = -33 then -33
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

FORBORNLANG

Variable Label

Interactions between foreign-born and language status (2 categories)

Value Labels

Scale: binary (categorical)

0   "Either native-born or native-language"

1   "Foreign-born and foreign-language"

.   "Undefined missing data"

.N   "Not stated or inferred"

Reference variables

BORNLANG

SQL code

```
*/
set FORBORNLANG = case
    when BORNLANG = 4 then 1
    when BORNLANG in (1,2,3) then 0
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

HOMLANG

Variable Label

Test language same as language spoken most often at home

Value Labels

Scale: binary (categorical)

0   "Test language not same as home language"

1   "Test language same as home language"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

LNG_HOME, LNG_CI

SQL code

```
*/
set HOMLANG = case
     when LNG_HOME not in ('','-66','-22','-33','-88','-99') and LNG_HOME = LNG_CI then 1
     when LNG_HOME not in ('','-66','-22','-33','-88','-99') and LNG_CI not in ('','-66','-22','-33','-88','-
99') and LNG_HOME <> LNG_CI then 0
     when LNG_HOME = '-22' then -22
     when LNG_HOME = '-33' then -33
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     else -99
     end
/*
```

HOMLGRGN

Variable Label

Source region of language spoken most often at home (9 regions)

Value Labels

Scale: discrete (categorical)

1   "Arab States"

2   "South and West Asia"

3   "Latin America and the Caribbean"

4   "Sub-Saharan Africa"

5   "East Asia and the Pacific (poorer countries)"

6   "Central Asia"

7   "East Asia and the Pacific (richer countries)"

8   "Central and Eastern Europe"

9   "North America and Western Europe"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
LNG_HOME

SQL code

```
*/
set HOMLGRGN = case
    when LNG_HOME in ('ara', 'kab', 'akk', 'ber', 'din', 'ssa', 'syr', 'cop', 'nub', 'egy', 'jrb', 'syc') then 1
    when LNG_HOME in ('asm', 'awa', 'bal', 'ben', 'bho', 'doi', 'guj', 'hin', 'kan', 'kas', 'kok', 'kur', 'lah',
'mag', 'mai', 'mal', 'mar', 'mwr', 'nep', 'ori', 'fas', 'raj', 'sat', 'snd', 'tam', 'tel', 'urd', 'ira', 'pan', 'pus', 'sin',
'nwc', 'pal', 'peo') then 2
    when LNG_HOME in ('grn', 'que', 'cpe', 'cpf', 'cpp', 'crp', 'hat', 'pap', 'car', 'arn', 'aym', 'cai', 'myn',
'sai', 'srn') then 3
    when LNG_HOME in ('aar', 'afr', 'aka', 'amh', 'bem', 'luo', 'ewe', 'ful', 'lug', 'hau', 'ibo', 'kam', 'kau',
'kmb', 'kon', 'mlg', 'man', 'orm', 'run', 'sna', 'som', 'suk', 'tso', 'tsn', 'umb', 'wol', 'xho', 'yor', 'zul', 'bai',
'bam', 'bas', 'bin', 'byn', 'dua', 'gaa', 'kin', 'kro', 'lin', 'nic', 'sag', 'snk', 'sot', 'sus', 'srr', 'swa', 'tig', 'tir',
'twi', 'ada', 'bnt', 'fat', 'kik', 'men', 'ach', 'dyu', 'efi', 'nzi', 'fon', 'gba', 'kpe', 'loz', 'lua', 'nde','nya', 'tem',
'ewo', 'fan', 'lub', 'mos', 'nbl', 'nso', 'nyo') then 4
    when LNG_HOME in ('bik', 'mya', 'ceb', 'zho', 'hil', 'hmn', 'ind', 'jav', 'lao', 'msa', 'min', 'shn', 'tgl',
'tha', 'vie', 'ban', 'bod', 'chk', 'fil', 'ilo', 'kac', 'kar', 'khm', 'kos', 'mak', 'map',  'mri', 'pag', 'pam', 'pau',
'phi', 'sit', 'tai', 'tet', 'ton', 'uig', 'war', 'zha', 'btk', 'mdr', 'bis', 'gil', 'iii', 'mad', 'mah', 'mkh', 'mno', 'niu',
'paa', 'pon', 'rar', 'smo', 'sun', 'tah', 'tkl', 'tpi', 'tvl', 'cha') then 5
    when LNG_HOME in ('hye', 'aze', 'kat', 'kaz', 'mon', 'tuk', 'uzb', 'abk', 'cau', 'kir', 'tgk', 'new') then 6
    when LNG_HOME in ('jpn', 'kor', 'aus') then 7
    when LNG_HOME in ('sqi', 'bel', 'bul', 'hrv', 'ces', 'est', 'hun', 'lav', 'lit', 'pol', 'rus', 'srp', 'slk', 'tat',
'tur', 'ukr', 'bos', 'che', 'csb', 'fur', 'mkd', 'rom', 'ron', 'sla', 'slv', 'chv', 'dar', 'inh', 'kom', 'oss', 'udm', 'zza',
'krl', 'bak', 'bat', 'kum', 'lez', 'mdf', 'rup', 'sah') then 8
    when LNG_HOME in ('bre', 'cat', 'dan', 'nld', 'eng', 'fin', 'fra', 'glg', 'deu', 'heb', 'gle', 'ita', 'mlt', 'nor',
'por', 'scn', 'swe', 'ath', 'cel', 'cre', 'cym', 'den', 'dgr', 'ell', 'eus', 'fao', 'fry', 'gem', 'gla', 'gsw', 'iku', 'isl',
'nds', 'non', 'oji', 'oci', 'roa', 'sco', 'smi', 'spa', 'srd', 'wln', 'alg', 'wak', 'bla', 'chp', 'dak', 'grc', 'glv', 'gwi',
'iro', 'tli', 'sal', 'kal', 'mic', 'moh', 'roh', 'lat', 'sio', 'kal', 'ast', 'cor', 'cos', 'dum', 'frr', 'frs', 'ipk', 'lim', 'ltz',
'nai', 'nap', 'nav', 'sam', 'sma', 'sme', 'tsi', 'ltz') then 9
    when LNG_HOME in ('afa', 'arc', 'epo', 'ine', 'mul', 'sem', 'sgn', 'und', 'yid', 'zxx', 'mis', 'cus', 'ile',
'jpr', 'lad', 'uga') then -99
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when LNG_HOME = '' then -99
    when LNG_HOME = '-66' then -66
    when LNG_HOME = '-22' then -22
    when LNG_HOME = '-33' then -33
    when LNG_HOME = '-88' then -88
    when LNG_HOME = '-99' then -99
    else -99
    end
```

/*

Attention point: International Standard Classifications

In PIAAC, **ISCO** (*International Standard Classification of Occupations*) and **ISCED** (*International Standard Classification of Education*) are manually coded from respondents' open-ended answers. Participants describe their job title and main tasks, which are then classified according to ISCO-08 at the four-digit level.

Similarly, they report their highest level of education, which is mapped to ISCED-2011. Trained coders follow standardised international guidelines, often using national reference lists and expert judgment to ensure accuracy. Despite some automated tools, the process remains largely manual due to the complexity and variability of responses, as job titles and education systems differ across countries.

ISCO1_FATH

Variable Label

Occupational classification of respondent's father's or male guardian's job when respondent was 14 at 1-digit level

Value Labels

Scale: discrete (categorical)
"0"   "Armed forces"
"1"   "Legislators, senior officials and managers"
"2"   "Professionals"
"3"   "Technicians and associate professionals"
"4"   "Clerks"
"5"   "Service workers and shop and market sales workers"
"6"   "Skilled agricultural and fishery workers"
"7"   "Craft and related trades workers"
"8"   "Plant and machine operators and assemblers"
"9"   "Elementary occupations"
.   "Not administered"
.U   "Father did not hold a paying job when respondent was aged 14"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

J2_Q05d, ISCO08_F

SQL code

*/

```
set ISCO1_FATH = case
    when J2_Q05d= 2 then '-55'
    when ISCO08_F = '-66' then '-66'
    when ISCO08_F = '-22' then '-22'
    when ISCO08_F = '-33' then '-33'
```

```
    when ISCO08_F = '-88' then '-88'
    when ISCO08_F = '-99' then '-99'
    when ISCO08_F not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_F,1,1)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

ISCO2_FATH

Variable Label

Occupational classification of respondent's father's or male guardian's job when respondent was 14 at 2-digit level

Value Labels

Scale: discrete (categorical)

"0"   "Armed forces occupations"
"01"   "Commissioned armed forces officers"
"02"   "Non-commissioned armed forces officers"
"03"   "Armed forces occupations, other ranks"
"1"   "Managers"
"11"   "Chief executives, senior officials and legislators"
"12"   "Administrative and commercial managers"
"13"   "Production and specialised services managers"
"14"   "Hospitality, retail and other services managers"
"2"   "Professionals"
"21"   "Science and engineering professionals"
"22"   "Health professionals"
"23"   "Teaching professionals"
"24"   "Business and administration professionals"
"25"   "Information and communications technology professionals"
"26"   "Legal, social and cultural professionals"
"3"   "Technicians and associate professionals"
"31"   "Science and engineering associate professionals"
"32"   "Health associate professionals"
"33"   "Business and administration associate professionals"
"34"   "Legal, social, cultural and related associate professionals"
"35"   "Information and communications technicians"
"4"   "Clerical support workers"
"41"   "General and keyboard clerks"
"42"   "Customer services clerks"
"43"   "Numerical and material recording clerks"
"44"   "Other clerical support workers"
"5"   "Service and sales workers"
"51"   "Personal service workers"
"52"   "Sales workers"
"53"   "Personal care workers"
"54"   "Protective services workers"

"6"   "Skilled agricultural, forestry and fishery workers"
"61"   "Market-oriented skilled agricultural workers"
"62"   "Market-oriented skilled forestry, fishery and hunting workers"
"63"   "Subsistence farmers, fishers, hunters and gatherers"
"7"   "Craft and related trades workers"
"71"   "Building and related trades workers, excluding electricians"
"72"   "Metal, machinery and related trades workers"
"73"   "Handicraft and printing workers"
"74"   "Electrical and electronic trades workers"
"75"   "Food processing, wood working, garment and other craft and related trades workers"
"8"   "Plant and machine operators, and assemblers"
"81"   "Stationary plant and machine operators"
"82"   "Assemblers"
"83"   "Drivers and mobile plant operators"
"9"   "Elementary occupations"
"91"   "Cleaners and helpers"
"92"   "Agricultural, forestry and fishery labourers"
"93"   "Labourers in mining, construction, manufacturing and transport"
"94"   "Food preparation assistants"
"95"   "Street and related sales and service workers"
"96"   "Refuse workers and other elementary workers"
.   "Not administered"
.U   "Father did not hold a paying job when respondent was aged 14"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

J2_Q05d, ISCO08_F

SQL code
```
*/
set ISCO2_FATH = case
    when J2_Q05d = 2 then '-55'
    when ISCO08_F = '-66' then '-66'
    when ISCO08_F = '-22' then '-22'
    when ISCO08_F = '-33' then '-33'
    when ISCO08_F = '-88' then '-88'
    when ISCO08_F = '-99' then '-99'
    when ISCO08_F not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_F,1,2)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

ISCO1_MOTH

Variable Label

Occupational classification of respondent's mother's or female guardian's job when respondents was 14 at 1-digit level

Value labels

Scale: discrete (categorical)

"0"	"Armed forces"
"1"	"Legislators, senior officials and managers"
"2"	"Professionals"
"3"	"Technicians and associate professionals"
"4"	"Clerks"
"5"	"Service workers and shop and market sales workers"
"6"	"Skilled agricultural and fishery workers"
"7"	"Craft and related trades workers"
"8"	"Plant and machine operators and assemblers"
"9"	"Elementary occupations"
.	"Not administered"
.U	"Mother did not hold a paying job when respondent was aged 14"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

ISCO1_MOTH, J2_Q04d, ISCO08_M

SQL code

```
*/
set ISCO1_MOTH = case
     when J2_Q04d = 2 then '-55'
     when ISCO08_M = '-66' then '-66'
     when ISCO08_M = '-22' then '-22'
     when ISCO08_M = '-33' then '-33'
     when ISCO08_M = '-88' then '-88'
     when ISCO08_M = '-99' then '-99'
     when ISCO08_M not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_M,1,1)
     when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
     else '-99'
     end
/*
```

ISCO2_MOTH

Variable Label

Occupational classification of respondent's mother's or female guardian's job when respondents was 14 at 2-digit level

Value labels

Scale: discrete (categorical)

"0"   "Armed forces occupations"
"01"   "Commissioned armed forces officers"
"02"   "Non-commissioned armed forces officers"
"03"   "Armed forces occupations, other ranks"
"1"   "Managers"
"11"   "Chief executives, senior officials and legislators"
"12"   "Administrative and commercial managers"
"13"   "Production and specialised services managers"
"14"   "Hospitality, retail and other services managers"
"2"   "Professionals"
"21"   "Science and engineering professionals"
"22"   "Health professionals"
"23"   "Teaching professionals"
"24"   "Business and administration professionals"
"25"   "Information and communications technology professionals"
"26"   "Legal, social and cultural professionals"
"3"   "Technicians and associate professionals"
"31"   "Science and engineering associate professionals"
"32"   "Health associate professionals"
"33"   "Business and administration associate professionals"
"34"   "Legal, social, cultural and related associate professionals"
"35"   "Information and communications technicians"
"4"   "Clerical support workers"
"41"   "General and keyboard clerks"
"42"   "Customer services clerks"
"43"   "Numerical and material recording clerks"
"44"   "Other clerical support workers"
"5"   "Service and sales workers"
"51"   "Personal service workers"
"52"   "Sales workers"
"53"   "Personal care workers"
"54"   "Protective services workers"
"6"   "Skilled agricultural, forestry and fishery workers"
"61"   "Market-oriented skilled agricultural workers"
"62"   "Market-oriented skilled forestry, fishery and hunting workers"
"63"   "Subsistence farmers, fishers, hunters and gatherers"

"7"   "Craft and related trades workers"
"71"   "Building and related trades workers, excluding electricians"
"72"   "Metal, machinery and related trades workers"
"73"   "Handicraft and printing workers"
"74"   "Electrical and electronic trades workers"
"75"   "Food processing, wood working, garment and other craft and related trades workers
"8"   "Plant and machine operators, and assemblers"
"81"   "Stationary plant and machine operators"
"82"   "Assemblers"
"83"   "Drivers and mobile plant operators"
"9"   "Elementary occupations"
"91"   "Cleaners and helpers"
"92"   "Agricultural, forestry and fishery labourers"
"93"   "Labourers in mining, construction, manufacturing and transport"
"94"   "Food preparation assistants"
"95"   "Street and related sales and service workers"
"96"   "Refuse workers and other elementary workers"
.   "Not administered"
.U   "Mother did not hold a paying job when respondent was aged 14"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables
J2_Q04d, ISCO08_M

SQL code
```
*/
set ISCO2_MOTH = case
     when J2_Q04d = 2 then '-55'
     when ISCO08_M = '-66' then '-66'
     when ISCO08_M = '-22' then '-22'
     when ISCO08_M = '-33' then '-33'
     when ISCO08_M = '-88' then '-88'
     when ISCO08_M = '-99' then '-99'
     when ISCO08_M not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_M,1,2)
     when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
     else '-99'
     end
/*
```

ISCOSKIL4_FATH

Variable Label

Occupational classification of respondent's father's or male guardian's job (4 skill categories) at respondent age 14

Scale: discrete (categorical)

1   "Skilled occupations"

2   "Semi-skilled white-collar occupations"

3   "Semi-skilled blue-collar occupations"

4   "Elementary occupations"

.   "Not administered"

.A   "Father did not hold a paying job when respondent was aged 14"

.N   "Not stated or inferred"

.U   "Unknown''

Reference variables

ISCOSKIL4_FATH, J2_Q05d, ISCO1_FATH

SQL code

```
*/
set ISCOSKIL4_FATH = case
    when J2_Q05d = 2 then -55
    when ISCO1_FATH in (1,2,3) then 1
    when ISCO1_FATH in (4,5) then 2
    when ISCO1_FATH in (6,7,8) then 3
    when ISCO1_FATH in (9) then 4
    when ISCO1_FATH in (0) then -99
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -66
    end
/*
```

ISCOSKIL4_MOTH

Variable Label

Occupational classification of respondent's mother's or female guardian's job (4 skill categories) at respondent age 14

Value labels

Scale: discrete (categorical)

1   "Skilled occupations"

2   "Semi-skilled white-collar occupations"

3   "Semi-skilled blue-collar occupations"

4   "Elementary occupations"

.   "Not administered"

.A   "Mother did not hold a paying job when respondent was aged 14"

.N   "Not stated or inferred"

.U   "Unknown''

Reference variables

ISCOSKIL4_MOTH, J2_Q04d, ISCO1_MOTH

SQL code

```
*/
set ISCOSKIL4_MOTH = case
     when ISCO1_MOTH in (1,2,3) then 1
     when ISCO1_MOTH in (4,5) then 2
     when ISCO1_MOTH in (6,7,8) then 3
     when ISCO1_MOTH in (9) then 4
     when ISCO1_MOTH in (0) then -99
     when J2_Q04d = 2 then -55
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     else -66
     end
/*
```

PAREDC2

Variable Label

Highest of mother or father's level of education

Value Labels

Scale: ordinal (categorical)

1   "Neither parent has attained upper secondary"

2   "At least one parent has attained secondary and post-secondary, non-tertiary"

3   "At least one parent has attained tertiary"

.   "Not administered"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

J2_Q05c, J2_Q04c

SQL code

```
*/
set PAREDC2 = case
     when J2_Q05c = -22 or J2_Q04c = -22 then -22
     when J2_Q05c = -33 or J2_Q04c = -33 then -33
     when J2_Q05c = -99 or J2_Q04c = -99 then -99
     when J2_Q05c <= -99 and J2_Q04c <= -99 then -99
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     else (select case when J2_Q05c > J2_Q04c THEN J2_Q05c ELSE J2_Q04c END AS max_value)
     end
```

/*

DOORSTEP

Variable Label

Doorstep Interview administered to respondent

Value Labels

Scale: binary (categorical)

1   "Yes"

2   "No"

.   "Not administered"

Reference variables

DISP_DS

SQL code

```
*/
set DOORSTEP = case
        when DISP_DS = 1 OR DISP_DS = 3 THEN 1
      else 2
  end
/*
```

IMYRS

Variable Label

Years in country

Value Labels

Scale: continuous

.   "Not administered"

.A   "Native born"

.N   "Not stated or inferred"

Reference variables

DISP_CIBQ, DISP_DS, A2_Q03a, A2_Q03c1

SQL code

```
*/
set IMYRS = case
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when A2_Q03a = 1 then -55
    when IMYRS > 65 then -99
    when A2_Q03c1 = -88 or A2_Q03c1 < 0 or IMYRS < 0 then -99
    else IMYRS
    end
/*
```

IMYRS_C

Variable Label

Years in country (categorised, 4 categories)

Value Labels

Scale: ordinal (categorical)

1	"0-5 years"
2	"6-10 years"
3	"11-15 years"
4	"16 years or more"
.	"Not administered"
.N	"Not stated or inferred"

Reference variables

IMYRS

SQL code

```
*/
set IMYRS_C = case
    when IMYRS between 0 and 5 then 1
    when IMYRS between 6 and 10 then 2
    when IMYRS between 11 and 15 then 3
    when IMYRS between 16 and 95 then 4
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (IMYRS = -88)) then -99
    when IMYRS = -77 then -99
    when IMYRS = -55 then -55
    else -99
    end
/*
```

IMYRS_BQDI

Variable Label

Years in country (combining BQ and DI)

Value Labels

Scale: ordinal (categorical)

1	"Less than 1 year"
2	"1 to 2 years"
3	"3 to 5 years"
4	"More than 5 years"
.	"Not administered"
.A	"Native born"
.N	"Not stated or inferred"

Reference variables

IMYRS, DI_Q06b, BIRTHCNTRY_BQDI

SQL code

```
*/
set IMYRS_BQDI = case
        when ((IMYRS < 1 and IMYRS not in (-88,-99,-66,-55,-22,-33)) or (DI_Q06b = 1)) then 1
        when ((IMYRS between 1 and 2) or (DI_Q06b = 2)) then 2
        when ((IMYRS between 3 and 5) or (DI_Q06b = 3)) then 3
        when ((IMYRS > 5) or (DI_Q06b = 4)) then 4
        when BIRTHCNTRY_BQDI = 1 then -55
        when (IMYRS = -99 or (DI_Q06b = -22 or DI_Q06b = -33)) then -33
    else -99
        end
/*
```

IMYRCAT

Variable Label

Years in country (2-category)

Value Labels

Scale: ordinal (categorical)

1	"In host country 5 or fewer years"
2	"In host country more than 5 years"
3	"Non-immigrants"
.	"Not administered"
.N	"Not stated or inferred"

Reference variables

A2_Q03a, IMYRS

SQL code

```
*/
set IMYRCAT = case
    when A2_Q03a = 1 then 3
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when IMYRS < 0 then -99
    when IMYRS < 6 then 1
    when IMYRS > 5 then 2
    else -99
    end
/*
```

AGEG5LFS

Variable Label

Age groups in 5-year intervals based on LFS groupings

Value Labels

Scale: ordinal (categorical)

1	"Aged 16-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"
7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55-59"
10	"Aged 60-65"
.	"Not administered"
.A	"Less than 16"
.B	"Greater than 65"
.N	"Not stated or inferred"

Reference variables

AGE_R

SQL code

```
*/
set AGEG5LFS = case
    when AGE_R >= 16 and AGE_R <= 19 then 1
    when AGE_R > 19 and AGE_R <= 24 then 2
    when AGE_R > 24 and AGE_R <= 29 then 3
    when AGE_R > 29 and AGE_R <= 34 then 4
    when AGE_R > 34 and AGE_R <= 39 then 5
    when AGE_R > 39 and AGE_R <= 44 then 6
    when AGE_R > 44 and AGE_R <= 49 then 7
    when AGE_R > 49 and AGE_R <= 54 then 8
    when AGE_R > 54 and AGE_R <= 59 then 9
    when AGE_R > 59 and AGE_R <= 65 then 10
    when AGE_R > 0 and AGE_R < 16 then -66
    when AGE_R > 65 then -55
    else -99
    end
/*
```

AGEG10LFS

Age groups in 10 year bands.

Scale: ordinal (categorical)

1	"24 or less"
2	"25-34"
3	"35-44"
4	"45-54"
5	"55 plus"
.	"Not administered"
.A	"Less than 16"
.B	"Greater than 65"
.N	"Not stated or inferred"

AGE5GLFS

```
*/
set AGEG10LFS = case
    when AGEG5LFS = 1 then 1
    when AGEG5LFS = 2 then 1
    when AGEG5LFS = 3 then 2
    when AGEG5LFS = 4 then 2
    when AGEG5LFS = 5 then 3
    when AGEG5LFS = 6 then 3
    when AGEG5LFS = 7 then 4
    when AGEG5LFS = 8 then 4
    when AGEG5LFS = 9 then 5
    when AGEG5LFS = 10 then 5
    when ((DISP_CIBQ > 0) and (AGEG5LFS = -88)) then -99
    when AGEG5LFS = -77 then -99
    else -99
    end
/*
```

AGE_R

Person age

Scale: continuous

.	"Not administered"
.N	"Not stated or inferred"

DI_Q03, CI_AGE

SQL code
```
*/
set AGE_R = case
    when DI_Q03 =1 and (CI_AGE >= 0 and (CI_AGE not between 16 and 25) and CI_AGE < 16) then 16
    when DI_Q03 =1 and (CI_AGE >= 0 and (CI_AGE not between 16 and 25) and CI_AGE > 25) then 25
    when DI_Q03 =2 and (CI_AGE >= 0 and (CI_AGE not between 26 and 35) and CI_AGE < 26) then 26
    when DI_Q03 =2 and (CI_AGE >= 0 and (CI_AGE not between 26 and 35) and CI_AGE > 35) then 35
    when DI_Q03 =3 and (CI_AGE >= 0 and (CI_AGE not between 36 and 45) and CI_AGE < 36) then 36
    when DI_Q03 =3 and (CI_AGE >= 0 and (CI_AGE not between 36 and 45) and CI_AGE > 45) then 45
    when DI_Q03 =4 and (CI_AGE >= 0 and (CI_AGE not between 46 and 55) and CI_AGE < 46) then 46
    when DI_Q03 =4 and (CI_AGE >= 0 and (CI_AGE not between 46 and 55) and CI_AGE > 55) then 55
    when DI_Q03 =5 and (CI_AGE >= 0 and (CI_AGE not between 56 and 65) and CI_AGE < 56) then 56
    when DI_Q03 =5 and (CI_AGE >= 0 and (CI_AGE not between 56 and 65) and CI_AGE > 65) then 65
    when DI_Q03 =6 and (CI_AGE >= 0 and (CI_AGE not between 66 and 75) and CI_AGE < 66) then 66
    when DI_Q03 =6 and (CI_AGE >= 0 and (CI_AGE not between 66 and 75) and CI_AGE > 75) then 75
    ELSE AGE_R
  end
/*
```

AGE_R_ORG

Variable Label
Person age from BQ and doorstep interview

Value Labels
Scale: continuous
.N   "Not stated or inferred"

Reference variables
AGE_R

SQL code
```
*/
set AGE_R_ORG = AGE_R
/*
```

BRGN_UN

Variable Label
Country of birth (UN geographical regions)

Value Labels
Scale: discrete (categorical)
1   "Africa"
2   "Americas"
3   "Asia"

4	"Europe"
5	"Oceania"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
CNT_BRTH

SQL code

```
*/
set BRGN_UN = case
    when CNT_BRTH in (12, 24, 204, 72, 86, 854, 108, 132, 120, 140, 148, 174, 178, 180, 384, 262,
818, 226, 232, 748, 231, 260, 266, 270, 288, 324, 624, 404, 426, 430, 434, 450, 454, 466, 478, 480, 175,
504, 508, 516, 562, 566, 646, 654, 678, 686, 690, 694, 706, 710, 728, 729, 834, 768, 788, 800, 894,
716) then 1
    when CNT_BRTH in (660, 28, 32, 533, 44, 52, 84, 60, 68, 535, 74, 76, 124, 136, 152, 170, 188, 192,
212, 214, 218, 222, 238, 304, 308, 320, 328, 332, 340, 388, 474, 484, 500, 531, 558, 591, 600, 604, 630,
652, 659, 662, 663, 666, 670, 534, 239, 740, 780, 796, 840, 858, 862, 92, 850) then 2
    when CNT_BRTH in (4, 31, 48, 50, 51, 64, 96, 116, 156, 196, 268, 344, 356, 360, 364, 368, 376,
392, 400, 398, 408, 410, 414, 417, 418, 422, 446, 458, 462, 496, 104, 524, 512, 586, 275, 608, 634, 682,
702, 144, 760, 158, 762, 764, 626, 792, 795, 784, 860, 704, 887) then 3
    when CNT_BRTH in (248, 8, 20, 40, 112, 56, 70, 100, 191, 203, 208, 233, 234, 246, 250, 276, 292,
300, 831, 336, 348, 352, 372, 833, 380, 832, 428, 438, 440, 442, 470, 498, 492, 499, 528, 807, 578, 616,
620, 642, 643, 674, 688, 703, 705, 724, 744, 752, 756, 804, 826) then 4
    when CNT_BRTH in (16, 36, 162, 166, 184, 242, 316, 334, 296, 584, 583, 520, 540, 554, 570, 574,
580, 585, 598, 612, 882, 90, 772, 776, 798, 581, 548, 876) then 5
    when CNT_BRTH in (254, 258, 312, 638) then -99
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when CNT_BRTH = -88 then -99
    else -99
    end
/*
```

BIRTHRGN

Variable Label
Country of birth (9 regions)

Value Labels
Scale: discrete (categorical)

1	"Arab States"
2	"South and West Asia"
3	"Latin America and the Caribbean"
4	"Sub-Saharan Africa"
5	"East Asia and the Pacific (poorer countries)"

6   "Central Asia"

7   "East Asia and the Pacific (richer countries)"

8   "Central and Eastern Europe"

9   "North America and Western Europe"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
CNT_BRTH

SQL code

```
*/
set BIRTHRGN = case
    when CNT_BRTH <= 0 then CNT_BRTH
    when CNT_BRTH in (12, 48, 262, 818, 368, 400, 414, 422, 434, 478, 504, 275, 512, 634, 682, 728,
729 , 736, 760, 788, 784, 887, 732) then 1
    when CNT_BRTH in (4, 50, 64, 356, 364, 462, 524, 586, 144) then 2
    when CNT_BRTH in (660, 28, 32, 533, 44, 52, 84, 60, 68, 76, 92, 136, 152, 170, 188, 192, 212, 214,
218, 222, 308, 320, 328, 332, 340, 388, 484, 500, 530 ,531, 534, 535, 558, 591, 600, 604, 652 , 659,
662, 663,  670, 740, 780, 796, 858, 862, 630, 654, 474) then 3
    when CNT_BRTH in (24, 204, 72, 854, 108, 120, 132, 140, 174, 178, 384, 180, 226, 232, 231, 266,
270, 288, 324, 624, 404, 426, 430, 450, 454, 466, 480, 508, 516, 562, 566, 646, 678, 686, 690, 694, 706,
710, 748, 768, 800, 834, 894, 716, 148, 175) then 4
    when CNT_BRTH in (96, 116, 156, 184, 408, 242, 360, 296, 418, 446, 458, 584, 583, 104, 520, 598,
608, 882, 90, 764, 626, 776, 798, 548, 704, 344, 585) then 5
    when CNT_BRTH in (51, 31, 268, 398, 417, 496, 762, 795, 860) then 6
    when CNT_BRTH in (36, 392, 554, 410, 702, 540) then 7
    when CNT_BRTH in (8, 112, 70, 100, 191, 203, 233, 348, 428, 440, 499, 616, 498, 642, 643, 688,
703, 705, 807, 792, 804) then 8
    when CNT_BRTH in (20, 40, 56, 124, 196, 208, 246, 250, 276, 300, 352, 372, 376, 380, 442, 470,
492, 528, 578, 620, 674, 724, 752, 756, 826, 840, 234, 248, 292, 304, 438, 666, 831, 832, 833) then 9
    when CNT_BRTH in (254, 258, 312, 638) then -99
    when CNT_BRTH = -88 then -88
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

CRGN_UN

Variable Label

Country region (UN geographical regions)

Value Labels

1   "Africa"

2   "Americas"

3   "Asia"

4   "Europe"

5   "Oceania"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

CNTRYID

SQL code

```
*/
set CRGN_UN = case
    when CNTRYID in (124, 152, 840) then 2
    when CNTRYID in (376, 392, 410, 702) then 3
    when CNTRYID in (40, 56, 756, 203, 208, 233, 246, 250, 276, 191, 348, 372, 380, 440, 428, 528,
578, 616, 620, 703, 724, 752, 826) then 4
    when CNTRYID = 554 then 5
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

IMPARC2

Variable Label

Parents' immigration status

Value Labels

Scale: discrete (categorical)

1   "Both parents foreign-born"

2   "One parent foreign-born"

3   "Both parents native-born"

.   "Not administered"
.N   "Not stated or inferred"

Reference variables
A2_Q03d, A2_Q03e

SQL code
```
*/
set IMPARC2 = case
    when A2_Q03d = 2 and A2_Q03e = 2 then1
    when A2_Q03d = 2 or A2_Q03e = 2 then 2
    when A2_Q03d = 1 and A2_Q03e = 1 then 3
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

IMGENC2

Variable Label
First and second generation immigrants

Value Labels
Scale: discrete (categorical)
1   "1st generation immigrants"
2   "2nd generation immigrants"
3   "Non 1st or 2nd generation immigrants"
.   "Not administered"
.A   "Non-immigrant and one foreign-born parent"
.N   "Not stated or inferred"

Reference variables
A2_Q03a, IMPARC2

SQL code
```
*/
set IMGENC2 = case
    when A2_Q03a = 2 and IMPARC2 = 1 then 1
    when A2_Q03a = 2 and IMPARC2 = 2 then 1
    when A2_Q03a = 1 and IMPARC2 = 1 then 2
    when A2_Q03a = 1 and IMPARC2 = 3 then 3
    when A2_Q03a = 2 and IMPARC2 = 3 then 3
    when A2_Q03a = 1 and IMPARC2 = 2 then -55
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

ICTEVER

Variable Label

Ever used a digital device like a computer, smartphone, tablet

Value Labels

Scale: binary (categorical)

0	"Has never used a smartphone, tablet, laptop or computer"
1	"Has used a smartphone, tablet, laptop or computer"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

F2_Q04, G2_Q04

SQL code

```
*/
set    ICTEVER = case
        when F2_Q04 = 1 OR G2_Q04 = 1 then 1
        when F2_Q04 = 2 AND G2_Q04 = 2 then 0
        when F2_Q04 = -22 AND G2_Q04 = -22 then -22
        when F2_Q04 = -33 AND G2_Q04 = -33 then -33
        else ICTEVER
end
/*
```

COMPFREQ

Variable Label

Frequency of use of a computer/laptop in everyday life

Value Labels

Scale: discrete (categorical)

1	"Never"
2	"Less than once a month"
3	"Less than once a week but at least once"
4	"At least once a week but not every day"
5	"Every day"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

G2_Q04, G2_Q05c

```
*/
set     COMPFREQ = case
                when G2_Q04 = 2 then 1
                else G2_Q05c
end
/*
```

SMARTPHONEFREQ

Variable Label

Frequency of use of a smartphone in everyday life

Value Labels

Scale: discrete (categorical)

1	"Never"
2	"Less than once a month"
3	"Less than once a week but at least once"
4	"At least once a week but not every day"
5	"Every day"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

G2_Q04, G2_Q05a

SQL code

```
*/
set     SMARTPHONEFREQ = case
                when G2_Q04 = 2 then 1
                else G2_Q05a
end
/*
```

TABLETFREQ

Variable Label

Frequency of use of a tablet in everyday life

Value Labels

Scale: discrete (categorical)

1	"Never"
2	"Less than once a month"
3	"Less than once a week but at least once"
4	"At least once a week but not every day"
5	"Every day"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

G2_Q04, G2_Q05b

SQL code

```
*/
set     TABLETFREQ = case
                    when G2_Q04 = 2 then 1
                    else G2_Q05b
                    end
/*
```

PARTNER

Variable Label

Living with spouse or partner

Scale: discrete (categorical)

0   "Not living with spouse or partner"

1   "Living with spouse or partner"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
J2_Q01, J2_Q02a

SQL code
*/

```
set    PARTNER = case
        when J2_Q01 = 1 OR J2_Q02a = 2 then 0
        when J2_Q02a = 1 then 1
        when J2_Q02a = -22 then -22
        when J2_Q02a = -33 then -33
        else PARTNER
        end
```
/*

A2_Q03c1_C

Variable Label

Background - Age of immigration (categorised, 9 categories)

Value Labels

Scale: ordinal (categorical)

1   "Aged 0-5"

2   "Aged 6-10"

3   "Aged 11-15"

4   "Aged 16-20"

5   "Aged 21-25"

6   "Aged 26-30"

7   "Aged 31-35"

8   "Aged 36-40"

9   "Aged 41 or older"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

SQL code
```
*/
set A2_Q03c1_C = case
      when A2_Q03c1 between 0 and 5 then 1
      when A2_Q03c1 between 6 and 10 then 2
      when A2_Q03c1 between 11 and 15 then 3
      when A2_Q03c1 between 16 and 20 then 4
      when A2_Q03c1 between 21 and 25 then 5
      when A2_Q03c1 between 26 and 30 then 6
      when A2_Q03c1 between 31 and 35 then 7
      when A2_Q03c1 between 36 and 40 then 8
      when A2_Q03c1 between 41 and 95 then 9
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      when ((DISP_CIBQ >0) and (A2_Q03c1 = -88)) then -99
      when A2_Q03c1 = -77 then -99
      else A2_Q03c1
      end
/*
```

J2_Q01_C

Variable Label

Background - People in household (top-coded at 6)

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

J2_Q01

SQL code
```
*/
set J2_Q01_C = case
      when J2_Q01 >6  then 6
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      when ((DISP_CIBQ >0) and (J2_Q01 = -88)) then -99
      when J2_Q01 = -77 then -99
      else J2_Q01
      end
```

/*

J2_Q03b_C

Variable Label

Background - Number of children (top-coded at 4)

Value Labels

Scale: continuous

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

Reference variables

J2_Q03b

SQL code

```
*/
set J2_Q03b_C = case
    when J2_Q03b >4 then 4
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ >0) and (J2_Q03b = -88)) then -99
    when J2_Q03b = -77 then -99
    else J2_Q03b
    end
/*
```

J2_Q03c_C

Variable Label

Background - Age of the child (categorised, 4 categories)

Value Labels

Scale: ordinal (categorical)

1 "Aged 0-2"

2 "Aged 3-5"

3 "Aged 6-12"

4 "Aged 13 or older"

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

SQL code

```
*/
set J2_Q03c_C = case
    when J2_Q03c between 0 and 2 then 1
    when J2_Q03c between 3 and 5 then 2
    when J2_Q03c between 6 and 12 then 3
    when J2_Q03c between 13 and 95 then 4
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (J2_Q03c = -88)) then -99
    when J2_Q03c = -77 then -99
    else J2_Q03c
    end
/*
```

J2_Q03d1_C

Variable Label

Background - Age of the youngest child (categorised, 4 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-2"
2	"Aged 3-5"
3	"Aged 6-12"
4	"Aged 13 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

J2_Q03d1

SQL code

```
*/
set J2_Q03d1_C = case
    when J2_Q03d1 between 0 and 2 then 1
    when J2_Q03d1 between 3 and 5 then 2
    when J2_Q03d1 between 6 and 12 then 3
    when J2_Q03d1 between 13 and 95 then 4
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ >0) and (J2_Q03d1 = -88)) then -99
    when J2_Q03d1 = -77 then -99
    else J2_Q03d1
```

```
        end
/*
```

J2_Q03d2_C

Variable Label

Background - Age of the oldest child (categorised, 4 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-2"
2	"Aged 3-5"
3	"Aged 6-12"
4	"Aged 13 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

J2_Q03d2

SQL code

```
*/
set J2_Q03d2_C = case
    when J2_Q03d2 between 0 and 2 then 1
    when J2_Q03d2 between 3 and 5 then 2
    when J2_Q03d2 between 6 and 12 then 3
    when J2_Q03d2 between 13 and 95 then 4
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ >0) and (J2_Q03d2 = -88)) then -99
    when J2_Q03d2 = -77 then -99
    else J2_Q03d2
    end
/*
```

J2_Q09a_C

Variable Label

Background - At age 14 - Number of siblings (top-coded at 4)

Value Labels

Scale: continuous

.	"Not administered"
.R	"Refused"
.D	"Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''"

Reference variables

J2_Q09a

SQL code

```
*/
set J2_Q09a_C = case
     when J2_Q09a > 4 then 4
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     when ((DISP_CIBQ >0) and (J2_Q09a = -88)) then -99
     when J2_Q09a = -77 then -99
     else J2_Q09a
     end
/*
```

CHILDNR

Variable Label

Number of children

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''"

Reference variables

J2_Q03a, J2_Q03b

SQL code

```
*/
set    CHILDNR = case
        when J2_Q03a = 2 then 0
        else J2_Q03b
        end
/*
```

Education/training variables

YRSQUALC2_C

Variable Label

Years of formal education (categorised)

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

YRSQUALC2

SQL code

```
*/
set     YRSQUALC2_C = case
        when YRSQUALC2 between 0 and 7 then 7
        else YRSQUALC2
end
/*
```

EDCAT8_TC1

Variable Label

Highest level of formal education obtained (8 categories, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1   "Primary or less (ISCED 1 or less)"
2   "Lower secondary (ISCED 2, ISCED 3C short)"
3   "Upper secondary (ISCED 3A-B, C long)"
4   "Post-secondary, non-tertiary (ISCED 4A-B-C)"
5   "Tertiary – professional degree (ISCED 5B)"
6   "Tertiary – bachelor degree (ISCED 5A)"
7   "Tertiary – master degree (ISCED 5A)"
8   "Tertiary – research degree (ISCED 6)"
.   "Not administered"
.N   "Not stated or inferred"

Reference variables

B2_Q01_TC1

```
*/
set   EDCAT8_TC1 = case
            when DISP_CIBQ = -88 or DISP_DS > 0 then -88
            when B2_Q01_TC1 = -88 then -99
            when B2_Q01_TC1 in (1,2) then 1
            when B2_Q01_TC1 in (3,4) then 2
            when B2_Q01_TC1 in (5,6,7) then 3
            when B2_Q01_TC1 in (8,9,10) then 4
            when B2_Q01_TC1 = 11 then 5
            when B2_Q01_TC1 = 12 then 6
            when B2_Q01_TC1 = 13 then 7
            when B2_Q01_TC1 = 14 then 8
            else -99
            end
/*
```

EDCAT7_TC1

Variable Label

Highest level of formal education obtained (7 categories, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1	"Primary or less (ISCED 1 or less)"
2	"Lower secondary (ISCED 2, ISCED 3C short)"
3	"Upper secondary (ISCED 3A-B, C long)"
4	"Post-secondary, non-tertiary (ISCED 4A-B-C)"
5	"Tertiary – professional degree (ISCED 5B)"
6	"Tertiary – bachelor degree (ISCED 5A)"
7	"Tertiary – master/research degree (ISCED 5A-6)"
.	"Not administered"
.N	"Not stated or inferred"

Reference variables

EDCAT8_TC1

SQL code

```
*/
set     EDCAT7_TC1 = case
            when EDCAT8_TC1 = 1 then 1
            when EDCAT8_TC1 = 2 then 2
            when EDCAT8_TC1 = 3 then 3
            when EDCAT8_TC1 = 4 then 4
            when EDCAT8_TC1 = 5 then 5
            when EDCAT8_TC1 = 6 then 6
            when EDCAT8_TC1 = 7 then 7
            when EDCAT8_TC1 = 8 then 7
```

```
            when DISP_CIBQ = -88 or DISP_DS > 0 then -88
            else -99
            end
/*
```

EDCAT6_TC1

Variable Label

Highest level of formal education obtained (6 categories, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1	"Lower secondary or less (ISCED 1, 2, 3C short)"
2	"Upper secondary (ISCED 3A-B, C long)"
3	"Post-secondary, non-tertiary (ISCED 4A-B-C)"
4	"Tertiary – professional degree (ISCED 5B)"
5	"Tertiary – bachelor degree (ISCED 5A)"
6	"Tertiary – master/research degree (ISCED 5A-6)"
.	"Not administered"
.N	"Not stated or inferred"

Reference variables

EDCAT7_TC1

SQL code

```
*/
set     EDCAT6_TC1 = case
            when EDCAT7_TC1 = 1 then 1
            when EDCAT7_TC1 = 2 then 1
            when EDCAT7_TC1 = 3 then 2
            when EDCAT7_TC1 = 4 then 3
            when EDCAT7_TC1 = 5 then 4
            when EDCAT7_TC1 = 6 then 5
            when EDCAT7_TC1 = 7 then 6
            when DISP_CIBQ = -88 or DISP_DS > 0 then -88
            else -99
            end
/*
```

EDFIELD

Variable Label

Field (Area) of study of highest qualification

Value Labels

Scale: ordinal (categorical)

1   Economics, Business and Administration

2   Law

3   Health

4   Welfare

5   Social and Behavioral Sciences

6   Journalism and Information

7   Information and Communication Technology

8   Natural Sciences, Mathematics and Statistics

9   Engineering and Manufacturing

10   Construction

11   Agriculture, Forestry, Fisheries and Environmental Studies

12   Personal and Community Services

13   Security and Transport

14   Education and Teacher Training

15   Humanities, Languages and Arts

16   No main area of study or emphasis, it was a general education programme

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
B2_Q01, B2_Q04a

SQL code
```
*/
set     EDFIELD = case

                when B2_Q01 in (6, 9, 11, 13) then 16
                else B2_Q04a
                end
/*
```

EDCURFIELD

Variable Label

Field (Area) of study of current qualification

Value Labels

Scale: ordinal (categorical)

1   Economics, Business and Administration

2   Law

3   Health

4   Welfare

5   Social and Behavioral Sciences

6   Journalism and Information

7   Information and Communication Technology

8   Natural Sciences, Mathematics and Statistics

9   Engineering and Manufacturing

10   Construction

11   Agriculture, Forestry, Fisheries and Environmental Studies

12   Personal and Community Services

13   Security and Transport

14   Education and Teacher Training

15   Humanities, Languages and Arts

16   No main area of study or emphasis, it was a general education programme

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
B2_Q05b, B2_Q05c

SQL code
```
*/
set     EDCURFIELD = case
         when B2_Q05b in (6, 9, 11, 13) then 16
         else B2_Q05c
end
/*
```

VETC2

Variable Label
Respondent's highest level of education is vocationally oriented

Value Labels
Scale: binary (categorical)

0   "No"

1   "Yes"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EDA_PISCED, B2_Q01

SQL code

```
*/
set     VETC2 = case
            when EDA_PISCED in (1294, 2324, 2334, 2344, 2434, 2444, 3504, 3603, 3703) then 1
            when B2_Q01 < 0 then B2_Q01
            else 0
            end
/*
```

EP_VET

Variable Label

Edu pathway: VET at any level before highest qualification

Value Labels

Scale: binary (categorical)

0   "No VET in educational pathway"

1   "VET in educational pathway"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q01, B2_Q02b01, B2_Q02B05, B2_Q02B08, B2_Q02B10, B2_Q02B12, B2_Q02B15, B2_Q02B17, B2_Q02B20, B2_Q02B29, B2_Q02B30

SQL code

```
*/
set EP_VET = case
            when (B2_Q02B05 = 1 or B2_Q02B08 = 1 or B2_Q02B10 = 1 or B2_Q02B12 = 1 or B2_Q02B15
= 1 or B2_Q02B17 = 1 or B2_Q02B20 = 1 or B2_Q02B29 = 1 or B2_Q02B30 = 1) then 1
            when DISP_CIBQ = -88 or DISP_DS > 0 then -88
            when (B2_Q01 < 5 or B2_Q01 = -99) then -99
            when B2_Q02b01 = -66 then -66
            else 0
            end
/*
```

EP_ISC4

Variable Label

Edupath: ISCED 4 completed before highest qualification

Value Labels

Scale: binary (categorical)

0   "ISCED 5/6/7/8 attained without ISCED 4"
1   "ISCED 5/6/7/8 attained with ISCED 4 in pathway"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

EDA_ISCED, B2_Q02B14, B2_Q02B15, B2_Q02B16, B2_Q02B17, B2_Q02B18

SQL code

```
*/
set EP_ISC4 = case
        when ((EDA_ISCED1 = 5 or EDA_ISCED1 = 6 or EDA_ISCED1 = 7 or EDA_ISCED1 = 8) and
(B2_Q02B14 = 1 or B2_Q02B15 = 1 or B2_Q02B16 = 1 or B2_Q02B17 = 1 or B2_Q02B18 = 1)) then 1
        when EDA_ISCED1 in (0,1,2,3,4) then -99
        when DISP_CIBQ = -88 or DISP_DS > 0 then -88
        else 0
        end
/*
```

EP_ACAD

Variable Label

Edupath: academic pathway at ISCED 2-3 before highest qualification

Value Labels

Scale: ordinal (categorical)

1   "no academic pathway at ISCED 2/3"
2   "completed ISCED 2 acad and gen ISCED 3"
3   "completed ISCED 2 comp/nfs and gen ISCED 3"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

EDA_ISCED, B2_Q02B14, B2_Q02B15, B2_Q02B16, B2_Q02B17, B2_Q02B18

```
*/
SET EP_ACAD = CASE
    -- Condition for selective education systems at ISCED 2
    WHEN (EP_TISC2 IN (3, 4) AND b2_q02b13 = 1 AND CNTRY IN ('AUT', 'BEL', 'CHE', 'CZE', 'DEU', 'NLD',
'SVK')) THEN 1
    -- Condition for selective education systems at ISCED 2 with no completion information
    WHEN (B2_Q02b04 != 1 AND B2_Q02b02 != 1 AND B2_Q02b03 != 1 AND b2_q02b13 = 1 AND CNTRY
IN ('AUT', 'BEL', 'CHE', 'CZE', 'DEU', 'NLD', 'SVK')) THEN 1
    -- Condition for Singapore
    WHEN (EP_TISC2 = 3 AND B2_q02b18 = 1 AND (CNTRY = 'SGP' or CNTRY = 'SGX')) THEN 1
    -- Condition for comprehensive education systems at ISCED 2
    WHEN (b2_q02b02 = 1 AND b2_q02b13 = 1 AND CNTRY IN ('CAN', 'CHL', 'DNK', 'ESP', 'EST', 'FIN',
'FRA', 'GBR', 'HRV', 'HUN', 'IRL', 'ISR', 'ITA', 'JPN', 'KOR', 'LTU', 'LVA', 'NOR', 'NZL', 'POL', 'PRT', 'PRX',
'SWE', 'USA')) THEN 2
    -- Condition for Quebec (Canada)
    WHEN (B2_Q02b11 = 1 AND B2_q02b18 = 1 AND CNTRY = 'CAN') THEN 2
    -- Condition for non-interviews and doorstep cases
    when (DISP_CIBQ = -88 or DISP_DS > 0) then -88
    -- Condition for other cases where EDA_ISCED1 is less than 4
    WHEN (EDA_ISCED1 < 4) THEN -99
    -- Default case if none of the above conditions are met
    ELSE 0
END
/*
```

LEAVEDU

Variable Label

Respondent's age when leaving formal education

Value Labels

Scale: continuous

.	"Not administered"
.A	"Still in education"
.N	"Not stated or inferred"

Reference variables

A2_Q01a, B2_Q05a, B2_Q06a, B2_Q04b1, B2_Q04b2, B2_Q06c1, B2_Q06c2

SQL code

```
*/
set LEAVEDU = case
    when B2_Q05a = 2 and B2_Q06a = 2 and B2_Q04b1 not in (-66, -22, -33, -99, -88) then B2_Q04b1
    when B2_Q05a = 2 and B2_Q06a = 2 and B2_Q04b2 not in (-66, -22, -33, -99, -88) and A2_Q01a
not in (-66, -22, -33, -99, -88) then B2_Q04b2 - A2_Q01a
    when B2_Q05a = 2 and B2_Q06a = 1 and (B2_Q04b1 not in (-66, -22, -33, -99, -88) AND B2_Q06c1
not in (-66, -22, -33, -99, -88)) then (select case when B2_Q04b1 > B2_Q06c1 THEN B2_Q04b1 ELSE
B2_Q06c1 END AS max value)
```

when B2_Q05a = 2 and B2_Q06a = 1 and (B2_Q04b2 not in (-66, -22, -33, -99, -88) and A2_Q01a not in (-66, -22, -33, -99, -88) and B2_Q06c2 not in (-66, -22, -33, -99, -88)) then (select case when (B2_Q04b2 - A2_Q01a) > (B2_Q06c2 - A2_Q01a) THEN (B2_Q04b2 - A2_Q01a) ELSE (B2_Q06c2 - A2_Q01a) END AS max_value)

    when B2_Q05a = 1 then -55

    when DISP_CIBQ = -88 or DISP_DS > 0 then -88

    else -99

    end

/*

NFE12C2

Variable Label

Participated in non-formal education in 12 months preceding survey

Value Labels

Scale: binary (categorical)

0   "Did not participate in NFE"

1   "Participated in NFE"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q08a

SQL code

*/
set NFE12C2 = case
  when B2_Q08a = 1 then 1
  when B2_Q08a in (2, -22, -33) then 0
  when B2_Q08a = -66 then -66
  when DISP_CIBQ = -88 or DISP_DS > 0 then -88
  else -99
  end
/*

NFE12NR

Variable Label

Number of training activities in the past 12 months

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q08a, B2_Q08b

SQL code

```
*/
set     NFE12NR = case
                when B2_Q08a = 2 then 0
                else B2_Q08b
end
/*
```

NFE12JRC2

Variable Label

Participated in non-formal education for job-related reasons in 12 months preceding survey

Value Labels

Scale: binary (categorical)

0   "Did not participate in NFE for JR reasons"

1   "Participated in NFE for JR reasons"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

NFE12C2, B2_Q11

SQL code

```
*/
set NFE12JRC2 = case
   when NFE12C2 = 1 and B2_Q11 = 1 then 1
   when NFE12C2 = 1 and B2_Q11 = 2 then 0
```

```
      when NFE12C2 = -66 or B2_Q11 = -66 then -66
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      else -99
      end
/*
```

NFE12NJRC2

Variable Label

Participated in non-formal education for non job-related reasons in 12 months preceding survey

Value Labels

Scale: binary (categorical)

0   "Did not participate in NFE for NJR reasons"

1   "Participated in NFE for NJR reasons"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

NFE12C2, B2_Q11

SQL code

```
*/
set NFE12NJRC2 = case
   when NFE12C2 = 1 and B2_Q11 = 1 then 0
   when NFE12C2 = 1 and B2_Q11 = 2 then 1
   when NFE12JRC2 = -66 then -66
   when DISP_CIBQ = -88 or DISP_DS > 0 then -88
   else -99
   end
/*
```

NFEEVER

Variable Label

Ever participated in training

Value Labels

Scale: binary (categorical)

0   "Did not participate in NFE during last 5 years"

1   "Participated in NFE during last 5 years"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q09

SQL code

```
*/
set NFEEVER = case
    when B2_Q09 in (1,2) then 1
    when B2_Q09 in (3,-22,-33) then 0
    when B2_Q09 = -66 then -66
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

NFECOSTS

Variable Label

Training costs

Value Labels

Scale: binary (categorical)

0	"No costs"
1	"Totally or partially by employer"
2	"Not by employer"
3	"Not known"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_Q2001, B2_Q2002, B2_Q2003, B2_Q2004, B2_Q2005, B2_Q2006, B2_Q2007, B2_Q20DK, B2_Q20RF

SQL code

```
*/
set NFECOSTS = case
   when B2_Q2007 = 1 then 0
   when B2_Q2002 = 1 then 1
   when ((B2_Q2001 = 1 or B2_Q2003 = 1 or B2_Q2004 = 1 or B2_Q2005 = 1 or B2_Q2006 = 1) and
B2_Q2007 = 2 and B2_Q2002 = 2) then 2
   when ((B2_Q20DK = 1 or B2_Q20RF = 1) and B2_Q2001 = 2 and B2_Q2003 = 2 and B2_Q2004 = 2
and B2_Q2005 = 2 and B2_Q2006 = 2 and B2_Q2007 = 2) then 3
   when B2_Q2001 = -66 then -66
   when DISP_CIBQ = -88 or DISP_DS > 0 then -88
   else -99
   end
/*
```

NFEJRWH

Variable Label

Training was job-related & during working hours

Value Labels

Scale: binary (categorical)

0	"Training not job-related & not during working hours"
1	"Training was job-related & during working hours"
2	"Training was job-related but not during working hours"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

NFE12JRC2, B2_Q16b

SQL code

```
*/
set NFEJRWH = case
    when NFE12JRC2 = 0 then 0
    when NFE12JRC2 = 1 and B2_Q16b in (1,2) then 1
    when NFE12JRC2 = 1 and B2_Q16b > 2 then 2
    when NFE12JRC2 = -66 then -66
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

NFEJREF

Variable Label

Training was job-related & financed by employer

Value Labels

Scale: binary (categorical)

0	"Training not job-related & not financed by employer"
1	"Training was job-related & financed by employer"
2	"Training was job-related but not financed by employer"
.	"Not administered"
.R	"Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

NFE12JRC2, B2_ Q2002

SQL code

```
*/
set NFEJREF = case
   when NFE12JRC2 = 0 and B2_Q2002 <> 1 then 0
   when NFE12JRC2 = 1 and B2_Q2002 = 1 then 1
   when NFE12JRC2 = 1 and B2_Q2002 <> 1 then 2
   when DISP_CIBQ = -88 or DISP_DS > 0 then -88
   else -99
   end
/*
```

B2_D01d

Variable Label

Months elapsed since completing highest level of qualification (only for those who finished less than two years ago)

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

A2_D01a3, B2_Q01, B2_Q04c, B2_Q04b2

SQL code

```
*/
set B2_D01d = case
   when (B2_Q04c IN (-22, -33) and B2_Q04b2 = A2_D01a3) then 12
   when (B2_Q01 in (0, -22, -33) or B2_Q04b2 in (-22, -33) or B2_Q04c in (-22, -33)) then -99
   when (((A2_D01a3 * 12) + CURMONTH) - ((B2_Q04b2 * 12) + B2_Q04c)) < 0 then 0
   when (A2_D01a3 > 0 and B2_Q04b2 > 0 and B2_Q04c > 0) then (((A2_D01a3 * 12) + CURMONTH) -
((B2_Q04b2 * 12) + B2_Q04c))
   when DISP_CIBQ = -88 or DISP_DS > 0 then -88
        else -99
end
/*
```

B2_D01d_C

Variable Label

Time elapsed since finished highest qualification less than two years ago (2 categories)

Value Labels

Scale: ordinal (categorical)

1	"less than 1 year"
2	"1 to less than 2 years"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_D01d

SQL code

```
*/
set B2_D01d_C = case
    when B2_D01d between 0 and 11 then 1
    when B2_D01d between 12 and 23 then 2
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (B2_D01d = -88)) then -99
    when B2_D01d = -77 then -99
    else B2_D01d
    end
/*
```

B2_D03d

Variable Label

Uncompleted qualification - Months elapsed since dropout (only for those who left education less than two years ago)

Value Labels

Scale: continuous

.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

A2_D01a3, B2_Q06a, B2_Q06c2, B2_Q06d, CURMONTH

SQL code

```
*/
SET B2_D03d = CASE
    WHEN (B2_Q06d IN (-22, -33) AND B2_Q06c2 = A2_D01a3) THEN 12
    WHEN (B2_Q06a IN (2, -22, -33) OR B2_Q06c2 IN (-22, -33) OR B2_Q06d IN (-22, -33)) THEN -99
    WHEN (((A2_D01a3 * 12) + CURMONTH) - ((B2_Q06c2 * 12) + B2_Q06d)) < 0 THEN 0
    WHEN (A2_D01a3 > 0 and B2_Q06c2 > 0 and B2_Q06d > 0) THEN (((A2_D01a3 * 12) + CURMONTH)
- ((B2_Q06c2 * 12) + B2_Q06d))
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
        ELSE -99
END
/*
```

B2_D03d_C

Variable Label

Time elapsed since leaving education without completing program less than two years (2 categories)

Value Labels

Scale: ordinal (categorical)

1	"less than 1 year"
2	"1 to less than 2 years"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_D03d

SQL code

```
*/
set B2_D03d_C = case
    when B2_D03d between 0 and 11 then 1
    when B2_D03d between 12 and 23 then 2
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (B2_D03d = -88)) then -99
    when B2_D03d = -77 then -99
    else B2_D03d
    end
/*
```

B2_Q04b1_C

Variable Label

Education - Highest qualification - Age of finish (categorised, 6 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged <16"
2	"Aged 16-19"
3	"Aged 20-24"
4	"Aged 25-29"
5	"Aged 30-34"
6	"Aged 35 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_Q04b1

SQL code

```
*/
set B2_Q04b1_C = case
    when B2_Q04b1 between 0 and 15 then 1
    when B2_Q04b1 between 16 and 19 then 2
    when B2_Q04b1 between 20 and 24 then 3
    when B2_Q04b1 between 25 and 29 then 4
    when B2_Q04b1 between 30 and 34 then 5
    when B2_Q04b1 between 35 and 95 then 6
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (B2_Q04b1 = -88)) then -99
    when B2_Q04b1 = -77 then -99
    else B2_Q04b1
    end
/*
```

B2_Q06c1_C

Variable Label

Education - Uncompleted qualification - Age of dropout (6 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged <16"
2	"Aged 16-19"
3	"Aged 20-24"
4	"Aged 25-29"

5   "Aged 30-34"

6   "Aged 35 or older"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q06c1

SQL code

```
*/
set B2_Q06c1_C = case
     when B2_Q06c1 between 0 and 15 then 1
     when B2_Q06c1 between 16 and 19 then 2
     when B2_Q06c1 between 20 and 24 then 3
     when B2_Q06c1 between 25 and 29 then 4
     when B2_Q06c1 between 30 and 34 then 5
     when B2_Q06c1 between 35 and 95 then 6
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     when ((DISP_CIBQ > 0) and (B2_Q06c1 = -88)) then -99
     when B2_Q06c1 = -77 then -99
     else B2_Q06c1
     end
/*
```

B2_Q08b_C

Variable Label

Training - Last year - Number of training activities (top-coded at 5)

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

B2_Q08b

SQL code

```
*/
set B2_Q08b_C = case
   when B2_Q08b < 5 then B2_Q08b
   when B2_Q08b >= 5 then 5
```

```
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else B2_Q08b
    end
/*
```

D2_Q05a1_C

Variable Label

Current work - Start of work for employer - Age (categorised, 9 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"
7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

D2_Q05a1

SQL code

```
*/
set D2_Q05a1_C = case
    when D2_Q05a1 between 0 and 19 then 1
    when D2_Q05a1 between 20 and 24 then 2
    when D2_Q05a1 between 25 and 29 then 3
    when D2_Q05a1 between 30 and 34 then 4
    when D2_Q05a1 between 35 and 39 then 5
    when D2_Q05a1 between 40 and 44 then 6
    when D2_Q05a1 between 45 and 49 then 7
    when D2_Q05a1 between 50 and 54 then 8
    when D2_Q05a1 between 55 and 95 then 9
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (D2_Q05a1 = -88)) then -99
    when D2_Q05a1 = -77 then -99
    else D2_Q05a1
    end
/*
```

D2_Q05b1_C

Variable Label

Current work - Start of work for business - Age (categorised, 9 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"
7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

D2_Q05b1

SQL code

```
*/
set D2_Q05b1_C = case
    when D2_Q05b1 between 0 and 19 then 1
    when D2_Q05b1 between 20 and 24 then 2
    when D2_Q05b1 between 25 and 29 then 3
    when D2_Q05b1 between 30 and 34 then 4
    when D2_Q05b1 between 35 and 39 then 5
    when D2_Q05b1 between 40 and 44 then 6
    when D2_Q05b1 between 45 and 49 then 7
    when D2_Q05b1 between 50 and 54 then 8
    when D2_Q05b1 between 55 and 95 then 9
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (D2_Q05b1 = -88)) then -99
    when D2_Q05b1 = -77 then -99
    else D2_Q05b1
    end
/*
```

D2_Q08b_C

Variable Label

Current work - Employees working for you - Amount (collapsed, 2 categories)

Value Labels

Scale: ordinal (categorical)

1	"1-10 employees"
2	">10 employees"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

D2_Q08b

SQL code

```
*/
set D2_Q08b_C = case
    when D2_Q08b = 1 then 1
    when D2_Q08b = 2 then 2
    when D2_Q08b = 3 then 2
    when D2_Q08b = 4 then 2
    when D2_Q08b = 5 then 2
    when D2_Q08b = 6 then 2
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (D2_Q08b = -88)) then -99
    when D2_Q08b = -77 then -99
    else D2_Q08b
    end
/*
```

E2_Q05a1_C

Variable Label

Last job - Start of work for employer - Age (categorised, 9 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"

7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

E2_Q05a1

SQL code

```
*/
set E2_Q05a1_C = case
     when E2_Q05a1 between 0 and 19 then 1
     when E2_Q05a1 between 20 and 24 then 2
     when E2_Q05a1 between 25 and 29 then 3
     when E2_Q05a1 between 30 and 34 then 4
     when E2_Q05a1 between 35 and 39 then 5
     when E2_Q05a1 between 40 and 44 then 6
     when E2_Q05a1 between 45 and 49 then 7
     when E2_Q05a1 between 50 and 54 then 8
     when E2_Q05a1 between 55 and 95 then 9
     when DISP_CIBQ = -88 or DISP_DS > 0 then -88
     when ((DISP_CIBQ > 0) and (E2_Q05a1 = -88)) then -99
     when E2_Q05a1 = -77 then -99
     else E2_Q05a1
     end
/*
```

E2_Q09_C

Variable Label

Last job - Hours/week (top-coded at 60)

Value Labels

Scale: continuous

.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

E2_Q09

```
*/
set E2_Q09_C = case
    when E2_Q09 between 61 and 995 then 60
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (E2_Q09 = -88)) then -99
    when E2_Q09 = -77 then -99
    else E2_Q09
    end
/*
```

EDA_PISCED

Variable Label

Educational attainment, most detailed PIAAC-A variable

Value Labels

Scale: ordinal (categorical)

1 "below ISCED 1"
2 "ISCED 1"
3 "ISCED 2 comp/nfs"
4 "ISCED 2 pre/voc"
5 "ISCED 2 acad"
6 "voc ISCED 3 short"
7 "gen ISCED 3 short"
8 "voc ISCED 3 access 3"
9 "gen ISCED 3 access 3"
10 "voc ISCED 3 access 3/4"
11 "gen ISCED 3 access 3/4"
12 "voc ISCED 3 access 5/6/7"
13 "gen ISCED 3 access 5/6/7"
14 "voc ISCED 4 access 4"
15 "voc ISCED 4 access 5/6/7"
16 "gen ISCED 4 access 5/6/7"
17 "ISCED 5 nfs"
18 "ISCED 5"
19 "gen ISCED 5"
20 "ISCED 6 nfs"
21 "voc ISCED 6"
22 "appl ISCED 6"
23 "trad ISCED 6"
24 "ISCED 7 nfs"
25 "voc ISCED 7"
26 "appl ISCED 7"
27 "trad ISCED 7"
28 "ISCED 8"

.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
B2_Q01

SQL code
```
*/
set   EDA_PISCED = case B2_Q01
            when 0 then 1000
            when 1 then 1100
            when 2 then 1200
            when 3 then 1204
            when 4 then 1245
            when 5 then 1294
            when 6 then 1295
            when 7 then 2300
            when 8 then 2324
            when 9 then 2325
            when 10 then 2334
            when 11 then 2335
            when 12 then 2344
            when 13 then 2345
            when 14 then 2400
            when 15 then 2434
            when 16 then 2435
            when 17 then 2444
            when 18 then 2445
            when 19 then 3500
            when 20 then 3504
            when 21 then 3505
            when 22 then 3600
            when 23 then 3604
            when 24 then 3605
            when 25 then 3700
            when 26 then 3704
            when 27 then 3705
            when 28 then 3800
            when 29 then 3603
            when 30 then 3703
            else B2_Q01
            end
/*
```

Variable Label

Qualification needed to get respondent's current job, most detailed PIAAC-A variable

Value Labels

Scale: ordinal (categorical)

1	"below ISCED 1"
2	"ISCED 1"
3	"ISCED 2 comp/nfs"
4	"ISCED 2 pre/voc"
5	"ISCED 2 acad"
6	"voc ISCED 3 short"
7	"gen ISCED 3 short"
8	"voc ISCED 3 access 3"
9	"gen ISCED 3 access 3"
10	"voc ISCED 3 access 3/4"
11	"gen ISCED 3 access 3/4"
12	"voc ISCED 3 access 5/6/7"
13	"gen ISCED 3 access 5/6/7"
14	"voc ISCED 4 access 4"
15	"voc ISCED 4 access 5/6/7"
16	"gen ISCED 4 access 5/6/7"
17	"ISCED 5 nfs"
18	"ISCED 5"
19	"gen ISCED 5"
20	"ISCED 6 nfs"
21	"voc ISCED 6"
22	"appl ISCED 6"
23	"trad ISCED 6"
24	"ISCED 7 nfs"
25	"voc ISCED 7"
26	"appl ISCED 7"
27	"trad ISCED 7"
28	"ISCED 8"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

D2_Q12a

SQL code

```
*/
set   EGC_PISCED = case D2_Q12a
            when 0 then 1000
            when 1 then 1100
            when 2 then 1200
            when 3 then 1204
            when 4 then 1245
            when 5 then 1294
            when 6 then 1295
            when 7 then 2300
            when 8 then 2324
            when 9 then 2325
            when 10 then 2334
            when 11 then 2335
            when 12 then 2344
            when 13 then 2345
            when 14 then 2400
            when 15 then 2434
            when 16 then 2435
            when 17 then 2444
            when 18 then 2445
            when 19 then 3500
            when 20 then 3504
            when 21 then 3505
            when 22 then 3600
            when 23 then 3604
            when 24 then 3605
            when 25 then 3700
            when 26 then 3704
            when 27 then 3705
            when 28 then 3800
            when 29 then 3603
            when 30 then 3703
            else D2_Q12a
            end
/*
```

EGL_PISCED

Variable Label

Qualification needed to get respondent's last job, most detailed PIAAC-A variable

Value Labels

Scale: ordinal (categorical)

1   "below ISCED 1"
2   "ISCED 1"
3   "ISCED 2 comp/nfs"
4   "ISCED 2 pre/voc"
5   "ISCED 2 acad"

6 "voc ISCED 3 short"
7 "gen ISCED 3 short"
8 "voc ISCED 3 access 3"
9 "gen ISCED 3 access 3"
10 "voc ISCED 3 access 3/4"
11 "gen ISCED 3 access 3/4"
12 "voc ISCED 3 access 5/6/7"
13 "gen ISCED 3 access 5/6/7"
14 "voc ISCED 4 access 4"
15 "voc ISCED 4 access 5/6/7"
16 "gen ISCED 4 access 5/6/7"
17 "ISCED 5 nfs"
18 "ISCED 5"
19 "gen ISCED 5"
20 "ISCED 6 nfs"
21 "voc ISCED 6"
22 "appl ISCED 6"
23 "trad ISCED 6"
24 "ISCED 7 nfs"
25 "voc ISCED 7"
26 "appl ISCED 7"
27 "trad ISCED 7"
28 "ISCED 8"
. "Not administered"
.R "Refused"
.D "Don't know"
.N "Not stated or inferred"
.V "Valid skip"

Reference variables
E2_Q10a

SQL code
```
*/
set   EGL_PISCED = case E2_Q10a
            when 0 then 1000
            when 1 then 1100
            when 2 then 1200
            when 3 then 1204
            when 4 then 1245
            when 5 then 1294
            when 6 then 1295
            when 7 then 2300
            when 8 then 2324
            when 9 then 2325
            when 10 then 2334
            when 11 then 2335
            when 12 then 2344
```

```
            when 13 then 2345
            when 14 then 2400
            when 15 then 2434
            when 16 then 2435
            when 17 then 2444
            when 18 then 2445
            when 19 then 3500
            when 20 then 3504
            when 21 then 3505
            when 22 then 3600
            when 23 then 3604
            when 24 then 3605
            when 25 then 3700
            when 26 then 3704
            when 27 then 3705
            when 28 then 3800
            when 29 then 3603
            when 30 then 3703
            else E2_Q10a
            end
/*
```

EP_PISCED

Variable Label

Edupath

Value Labels

Scale: binary (categorical)

0   "No"

1   "Yes"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

B2_Q02b02,   B2_Q02b03,   B2_Q02b04,   B2_Q02b05,   B2_Q02b06,   B2_Q02b07,   B2_Q02b08,
B2_Q02b09,   B2_Q02b10,   B2_Q02b11,   B2_Q02b12,   B2_Q02b13,   B2_Q02b14,   B2_Q02b15,
B2_Q02b16,   B2_Q02b17,   B2_Q02b18,   B2_Q02b19,   B2_Q02b20,   B2_Q02b21,   B2_Q02b22
B2_Q02b23,   B2_Q02b24,   B2_Q02b25,   B2_Q02b26,   B2_Q02b27,   B2_Q02b28,   B2_Q02b29,
B2_Q02b30, B2_Q02bDK, B2_Q02bRF

SQL code

```
*/
set     EP_PISCED_1200 = case B2_Q02b02 when 1 then 1 when 2 then 0 else B2_Q02b02 end,
```

```
EP_PISCED_1204 = case B2_Q02b03 when 1 then 1 when 2 then 0 else B2_Q02b03 end,
EP_PISCED_1245 = case B2_Q02b04 when 1 then 1 when 2 then 0 else B2_Q02b04 end,
EP_PISCED_1294 = case B2_Q02b05 when 1 then 1 when 2 then 0 else B2_Q02b05 end,
EP_PISCED_1295 = case B2_Q02b06 when 1 then 1 when 2 then 0 else B2_Q02b06 end,
EP_PISCED_2300 = case B2_Q02b07 when 1 then 1 when 2 then 0 else B2_Q02b07 end,
EP_PISCED_2324 = case B2_Q02b08 when 1 then 1 when 2 then 0 else B2_Q02b08 end,
EP_PISCED_2325 = case B2_Q02b09 when 1 then 1 when 2 then 0 else B2_Q02b09 end,
EP_PISCED_2334 = case B2_Q02b10 when 1 then 1 when 2 then 0 else B2_Q02b10 end,
EP_PISCED_2335 = case B2_Q02b11 when 1 then 1 when 2 then 0 else B2_Q02b11 end,
EP_PISCED_2344 = case B2_Q02b12 when 1 then 1 when 2 then 0 else B2_Q02b12 end,
EP_PISCED_2345 = case B2_Q02b13 when 1 then 1 when 2 then 0 else B2_Q02b13 end,
EP_PISCED_2400 = case B2_Q02b14 when 1 then 1 when 2 then 0 else B2_Q02b14 end,
EP_PISCED_2434 = case B2_Q02b15 when 1 then 1 when 2 then 0 else B2_Q02b15 end,
EP_PISCED_2435 = case B2_Q02b16 when 1 then 1 when 2 then 0 else B2_Q02b16 end,
EP_PISCED_2444 = case B2_Q02b17 when 1 then 1 when 2 then 0 else B2_Q02b17 end,
EP_PISCED_2445 = case B2_Q02b18 when 1 then 1 when 2 then 0 else B2_Q02b18 end,
EP_PISCED_3500 = case B2_Q02b19 when 1 then 1 when 2 then 0 else B2_Q02b19 end,
EP_PISCED_3504 = case B2_Q02b20 when 1 then 1 when 2 then 0 else B2_Q02b20 end,
EP_PISCED_3505 = case B2_Q02b21 when 1 then 1 when 2 then 0 else B2_Q02b21 end,
EP_PISCED_3600 = case B2_Q02b22 when 1 then 1 when 2 then 0 else B2_Q02b22 end,
EP_PISCED_3604 = case B2_Q02b23 when 1 then 1 when 2 then 0 else B2_Q02b23 end,
EP_PISCED_3605 = case B2_Q02b24 when 1 then 1 when 2 then 0 else B2_Q02b24 end,
EP_PISCED_3700 = case B2_Q02b25 when 1 then 1 when 2 then 0 else B2_Q02b25 end,
EP_PISCED_3704 = case B2_Q02b26 when 1 then 1 when 2 then 0 else B2_Q02b26 end,
EP_PISCED_3705 = case B2_Q02b27 when 1 then 1 when 2 then 0 else B2_Q02b27 end,
EP_PISCED_3800 = case B2_Q02b28 when 1 then 1 when 2 then 0 else B2_Q02b28 end,
EP_PISCED_3603 = case B2_Q02b29 when 1 then 1 when 2 then 0 else B2_Q02b29 end,
EP_PISCED_3703 = case B2_Q02b30 when 1 then 1 when 2 then 0 else B2_Q02b30 end,
EP_PISCED_DK   = case B2_Q02bDK when 1 then 1 when 2 then 0 else B2_Q02bDK end,
EP_PISCED_RF   = case B2_Q02bRF when 1 then 1 when 2 then 0 else B2_Q02bRF end
/*
```

EP_TISC2

Variable Label

Edupath: track completed in ISCED 2 before highest qualification

Value Labels

Scale: ordinal (categorical)
1   "no or only partial general ISCED 2 comp"
2   "ISCED 2 pre/voc"
3   "ISCED 2 comp/nfs"
4   "ISCED 2 acad"
5   "ISCED 2 acad inferred as part of program"

.N   "Not stated or inferred"
.V   "Valid skip''

SQL code

```
*/
set EP_TISC2 = case
when CNTRY not in ('NLD','BEL','AUT','DEU','CZE','CHE','SVK','SGP','SGX') and ((B2_Q02b02 != 1 and
B2_Q02b03 != 1 AND B2_Q02b04 != 1) or (B2_Q02b03 = 1 AND B2_Q02b02 != 1 and B2_Q02b04 != 1
and CNTRY in ('ESP', 'EST', 'GBR', 'LTU', 'LVA', 'SGP','SGX'))) then 0
when CNTRY not in ('NLD','BEL','AUT','DEU','CZE','CHE','SVK','SGP','SGX') and (B2_Q02b03 = 1 and
CNTRY not in ('ESP','EST','GBR','LTU','LVA')) then 1
when CNTRY not in ('NLD','BEL','AUT','DEU','CZE','CHE','SVK','SGP','SGX') and B2_Q02b02 = 1 then 2
when CNTRY not in ('NLD','BEL','AUT','DEU','CZE','CHE','SVK','SGP','SGX') and B2_Q02b04 = 1 then 3
when CNTRY not in ('NLD','BEL','AUT','DEU','CZE','CHE','SVK','SGP','SGX') and (B2_Q01 between 0 and
4) then -99
when (DISP_CIBQ = -88 or DISP_DS > 0) then -88
end
/*
```

EP_TISC3

Variable Label

Edupath: type of education completed in ISCED 3 before highest qualification

Value Labels

Scale: ordinal (categorical)

0	"no ISCED 3 qualification reported"
1	"voc ISCED 3 short"
2	"gen ISCED 3 short"
3	"voc ISCED 3 access 3"
4	"gen ISCED 3 access 3"
5	"voc ISCED 3 access 3/4"
6	"gen ISCED 3 access 3/4"
7	"voc ISCED 3 access 5/6/7"
9	"gen ISCED 3 access 5/6/7"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_Q02b05, B2_Q02b06, B2_Q02b08, B2_Q02b09, B2_Q02b10, B2_Q02b11, B2_Q02b12, B2_Q02b13

SQL code

```
*/
SET EP_TISC3 = CASE
   WHEN B2_Q02b13 = 1 THEN 8
   WHEN B2_Q02b12 = 1 THEN 7
   WHEN B2_Q02b11 = 1 THEN 6
```

```
   WHEN B2_Q02b10 = 1 THEN 5
   WHEN B2_Q02b09 = 1 THEN 4
   WHEN B2_Q02b08 = 1 THEN 3
   WHEN B2_Q02b06 = 1 THEN 2
   WHEN B2_Q02b05 = 1 THEN 1
        ELSE EP_TISC3
   END
/*
```

EDE_PISCED

Variable Label

Educational enrolment, most detailed PIAAC-P variable

Value Labels

Scale: ordinal (categorical)

1	"ISCED 1"
2	"ISCED 2 comp/nfs"
3	"ISCED 2 pre/voc"
4	"ISCED 2 acad"
5	"voc ISCED 3 short"
6	"gen ISCED 3 short"
7	"voc ISCED 3 access 3"
8	"gen ISCED 3 access 3"
9	"voc ISCED 3 access 3/4"
10	"gen ISCED 3 access 3/4"
11	"voc ISCED 3 access 5/6/7"
12	"gen ISCED 3 access 5/6/7"
13	"voc ISCED 4 access 4"
14	"voc ISCED 4 access 5/6/7"
15	"gen ISCED 4 access 5/6/7"
16	"ISCED 5 nfs"
17	"voc ISCED 5"
18	"gen ISCED 5"
19	"ISCED 6 nfs"
20	"voc ISCED 6"
22	"appl ISCED 6"
22	"trad ISCED 6"
23	"ISCED 7 nfs"
24	"voc ISCED 7"
25	"appl ISCED 7"
26	"trad ISCED 7"
27	"ISCED 8"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

B2_Q05b

SQL code (for information on 4-digit PIAAC ISCED 2011 coding schemes PISCED-P and the respective BQ codes, refer to __Chapter 11 of the Technical Report__).

```
*/
set   EDE_PISCED = case
            when B2_Q05b = 1 then 1100
            when B2_Q05b = 2 then 1200
            when B2_Q05b = 3 then 1204
            when B2_Q05b = 4 then 1245
            when B2_Q05b = 5 then 2314
            when B2_Q05b = 6 then 2315
            when B2_Q05b = 7 then 2300
            when B2_Q05b = 8 then 2324
            when B2_Q05b = 9 then 2325
            when B2_Q05b = 10 then 2334
            when B2_Q05b = 11 then 2335
            when B2_Q05b = 12 then 2344
            when B2_Q05b = 13 then 2345
            when B2_Q05b = 14 then 2400
            when B2_Q05b = 15 then 2434
            when B2_Q05b = 16 then 2435
            when B2_Q05b = 17 then 2444
            when B2_Q05b = 18 then 2445
            when B2_Q05b = 19 then 3500
            when B2_Q05b = 20 then 3504
            when B2_Q05b = 21 then 3505
            when B2_Q05b = 22 then 3600
            when B2_Q05b = 23 then 3604
            when B2_Q05b = 24 then 3605
            when B2_Q05b = 25 then 3700
            when B2_Q05b = 26 then 3704
            when B2_Q05b = 27 then 3705
            when B2_Q05b = 28 then 3800
            when B2_Q05b = 29 then 3603
            when B2_Q05b = 30 then 3703
            else B2_Q05b
            end
/*
```

EDI_PISCED

Variable Label

Last incomplete educational qualification, most detailed PIAAC-A variable

Value Labels

Scale: ordinal (categorical)

1   "ISCED 1"

2   "ISCED 2 comp/nfs"

3	"ISCED 2 pre/voc"
4	"ISCED 2 acad"
5	"voc ISCED 3 short"
6	"gen ISCED 3 short"
7	"voc ISCED 3 access 3"
8	"gen ISCED 3 access 3"
9	"voc ISCED 3 access 3/4"
10	"gen ISCED 3 access 3/4"
11	"voc ISCED 3 access 5/6/7"
12	"gen ISCED 3 access 5/6/7"
13	"voc ISCED 4 access 4"
14	"voc ISCED 4 access 5/6/7"
15	"gen ISCED 4 access 5/6/7"
16	"ISCED 5 nfs"
17	"voc ISCED 5"
18	"gen ISCED 5"
19	"ISCED 6 nfs"
20	"voc ISCED 6"
22	"appl ISCED 6"
22	"trad ISCED 6"
23	"ISCED 7 nfs"
24	"voc ISCED 7"
25	"appl ISCED 7"
26	"trad ISCED 7"
27	"ISCED 8"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
B2_Q06b

SQL code

```
*/
set   EDI_PISCED = case
          when B2_Q06b = 1 then 1100
          when B2_Q06b = 2 then 1200
          when B2_Q06b = 3 then 1204
          when B2_Q06b = 4 then 1245
          when B2_Q06b = 5 then 1294
          when B2_Q06b = 6 then 1295
          when B2_Q06b = 7 then 2300
```

```
            when B2_Q06b = 8 then 2324
            when B2_Q06b = 9 then 2325
            when B2_Q06b = 10 then 2334
            when B2_Q06b = 11 then 2335
            when B2_Q06b = 12 then 2344
            when B2_Q06b = 13 then 2345
            when B2_Q06b = 14 then 2400
            when B2_Q06b = 15 then 2434
            when B2_Q06b = 16 then 2435
            when B2_Q06b = 17 then 2444
            when B2_Q06b = 18 then 2445
            when B2_Q06b = 19 then 3500
            when B2_Q06b = 20 then 3504
            when B2_Q06b = 21 then 3505
            when B2_Q06b = 22 then 3600
            when B2_Q06b = 23 then 3604
            when B2_Q06b = 24 then 3605
            when B2_Q06b = 25 then 3700
            when B2_Q06b = 26 then 3704
            when B2_Q06b = 27 then 3705
            when B2_Q06b = 28 then 3800
            when B2_Q06b = 29 then 3603
            when B2_Q06b = 30 then 3703
            else B2_Q06b
            end
/*
```

EDA_ISCED123

Variable Label

Educational attainment, coded to ISCED-A 2011 3 digits (level, orientation, access)

Value Labels

Scale: ordinal (categorical)

0   "ISCED 0"

1   "ISCED 1"

2   "ISCED 2"

3   "gen ISCED 3 short"

4   "voc ISCED 3 short"

5   "gen ISCED 3 access 3"

6   "gen ISCED 3 access 3/4"

7   "gen ISCED 3 access 5/6/7"

8   "voc ISCED 3 access 3"

9   "voc ISCED 3 access 3/4"

10   "voc ISCED 3 access 5/6/7"

11   "gen ISCED 4 access 5/6/7"

12	"voc ISCED 4 access 4"
13	"voc ISCED 4 access 5/6/7"
14	"ISCED 5 nfs"
15	"gen ISCED 5"
16	"voc ISCED 5"
17	"ISCED 6"
18	"ISCED 7"
19	"ISCED 8"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
B2_Q01

SQL code
```
*/
set    EDA_ISCED123 = case B2_Q01
            when 0 then 0
            when 1 then 100
            when 2 then 200
            when 3 then 200
            when 4 then 200
            when 5 then 254
            when 6 then 244
            when 7 then 300
            when 8 then 352
            when 9 then 342
            when 10 then 353
            when 11 then 343
            when 12 then 354
            when 13 then 344
            when 14 then 400
            when 15 then 453
            when 16 then 443
            when 17 then 454
            when 18 then 444
            when 19 then 500
            when 20 then 550
            when 21 then 540
            when 22 then 600
            when 23 then 600
            when 24 then 600
            when 25 then 700
            when 26 then 700
```

```
        when 27 then 700
        when 28 then 800
        when 29 then 600
        when 30 then 700
        else B2_Q01
        end
/*
```

EGC_ISCED123

Variable Label

Qualification needed to get respondent's current job, coded to ISCED-A 2011 3 digits (level, orientation, access)

Value Labels

Scale: ordinal (categorical)

1	"ISCED 0"
2	"ISCED 1"
3	"ISCED 2"
4	"gen ISCED 3 short"
5	"voc ISCED 3 short"
6	"gen ISCED 3 access 3"
7	"gen ISCED 3 access 3/4"
8	"gen ISCED 3 access 5/6/7"
9	"voc ISCED 3 access 3"
10	"voc ISCED 3 access 3/4"
11	"voc ISCED 3 access 5/6/7"
12	"gen ISCED 4 access 5/6/7"
13	"voc ISCED 4 access 4"
14	"voc ISCED 4 access 5/6/7"
15	"ISCED 5 nfs"
16	"gen ISCED 5"
17	"voc ISCED 5"
18	"ISCED 6"
19	"ISCED 7"
20	"ISCED 8"
.	"Undefined missing data"
.V	"Valid skip"
.D	"Don't know"
.R	"Refused"

D2_Q12a

```
*/
set    EGC_ISCED123 = case D2_Q12a
            when 0 then 0
            when 1 then 100
            when 2 then 200
            when 3 then 200
            when 4 then 200
            when 5 then 254
            when 6 then 244
            when 7 then 300
            when 8 then 352
            when 9 then 342
            when 10 then 353
            when 11 then 343
            when 12 then 354
            when 13 then 344
            when 14 then 400
            when 15 then 453
            when 16 then 443
            when 17 then 454
            when 18 then 444
            when 19 then 500
            when 20 then 550
            when 21 then 540
            when 22 then 600
            when 23 then 600
            when 24 then 600
            when 25 then 700
            when 26 then 700
            when 27 then 700
            when 28 then 800
            when 29 then 600
            when 30 then 700
            else D2_Q12a
            end
    /*
```

EGL_ISCED123

Variable Label

Qualification needed to get respondent's last job, coded to ISCED-A 2011 3 digits

Value Labels

Scale: ordinal (categorical)

1	"ISCED 0"
2	"ISCED 1"
3	"ISCED 2"
4	"gen ISCED 3 short"
5	"voc ISCED 3 short"
6	"gen ISCED 3 access 3"
7	"gen ISCED 3 access 3/4"
8	"gen ISCED 3 access 5/6/7"
9	"voc ISCED 3 access 3"
10	"voc ISCED 3 access 3/4"
11	"voc ISCED 3 access 5/6/7"
12	"gen ISCED 4 access 5/6/7"
13	"voc ISCED 4 access 4"
14	"voc ISCED 4 access 5/6/7"
15	"ISCED 5 nfs"
16	"gen ISCED 5"
17	"voc ISCED 5"
18	"ISCED 6"
19	"ISCED 7"
20	"ISCED 8"
.	"Undefined missing data"
.V	"Valid skip"
.D	"Don't know"
.R	"Refused"

Reference variables

E2_Q10a

SQL code

```
*/
set   EGL_ISCED123 = case E2_Q10a
          when 0 then 0
          when 1 then 100
          when 2 then 200
          when 3 then 200
          when 4 then 200
          when 5 then 254
          when 6 then 244
          when 7 then 300
```

```
        when 8 then 352
        when 9 then 342
        when 10 then 353
        when 11 then 343
        when 12 then 354
        when 13 then 344
        when 14 then 400
        when 15 then 453
        when 16 then 443
        when 17 then 454
        when 18 then 444
        when 19 then 500
        when 20 then 550
        when 21 then 540
        when 22 then 600
        when 23 then 600
        when 24 then 600
        when 25 then 700
        when 26 then 700
        when 27 then 700
        when 28 then 800
        when 29 then 600
        when 30 then 700
        else E2_Q10a
        end
/*
```

EP_ISCED123

Variable Label
Edupath

Value Labels

Scale: binary (categorical)

0	"No"
1	"Yes"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

EP_PISCED_1200,   EP_PISCED_1204,   EP_PISCED_1245,   EP_PISCED_1294,   EP_PISCED_1295,
EP_PISCED_2300,   EP_PISCED_2324,   EP_PISCED_2325,   EP_PISCED_2334,   EP_PISCED_2335,
EP_PISCED_2344,   EP_PISCED_2345,   EP_PISCED_2400,   EP_PISCED_2434,   EP_PISCED_2435,
EP_PISCED_2444,   EP_PISCED_2445,   EP_PISCED_3500,   EP_PISCED_3504,   EP_PISCED_3505,
EP_PISCED_3800, EP_PISCED_DK, EP_PISCED_RF

SQL code

```
*/
set    EP_ISCED123_254 = EP_PISCED_1294,
       EP_ISCED123_244 = EP_PISCED_1295,
       EP_ISCED123_300 = EP_PISCED_2300,
       EP_ISCED123_352 = EP_PISCED_2324,
       EP_ISCED123_342 = EP_PISCED_2325,
       EP_ISCED123_353 = EP_PISCED_2334,
       EP_ISCED123_343 = EP_PISCED_2335,
       EP_ISCED123_354 = EP_PISCED_2344,
       EP_ISCED123_344 = EP_PISCED_2345,
       EP_ISCED123_400 = EP_PISCED_2400,
       EP_ISCED123_453 = EP_PISCED_2434,
       EP_ISCED123_443 = EP_PISCED_2435,
       EP_ISCED123_454 = EP_PISCED_2444,
       EP_ISCED123_444 = EP_PISCED_2445,
       EP_ISCED123_500 = EP_PISCED_3500,
       EP_ISCED123_550 = EP_PISCED_3504,
       EP_ISCED123_540 = EP_PISCED_3505,
       EP_ISCED123_800 = EP_PISCED_3800,
       EP_ISCED123_DK = EP_PISCED_DK,
       EP_ISCED123_RF = EP_PISCED_RF
/*

*/
set     EP_ISCED123_200 = case
       when EP_PISCED_1200 = 1   or EP_PISCED_1204 = 1   or EP_PISCED_1245 = 1  then 1
       when EP_PISCED_1200 = 0   or EP_PISCED_1204 = 0   or EP_PISCED_1245 = 0  then 0
       when EP_PISCED_1200 = -22 or EP_PISCED_1204 = -22 or EP_PISCED_1245 = -22 then -22
       when EP_PISCED_1200 = -33 or EP_PISCED_1204 = -33 or EP_PISCED_1245 = -33 then -33
       when EP_PISCED_1200 = -66 or EP_PISCED_1204 = -66 or EP_PISCED_1245 = -66 then -66
       else EP_ISCED123_200
       end
/*

*/
set     EP_ISCED123_600 = case
       when  EP_PISCED_3600 = 1      or  EP_PISCED_3603 = 1      or  EP_PISCED_3604 = 1 or
EP_PISCED_3605 = 1 then 1
        when  EP_PISCED_3600 = 0      or  EP_PISCED_3603 = 0      or  EP_PISCED_3604 = 0 or
EP_PISCED_3605 = 0 then 0
```

```
        when EP_PISCED_3600 = -22 or EP_PISCED_3603 = -22 or EP_PISCED_3604 = -22 or
EP_PISCED_3605 = -22 then -22
        when EP_PISCED_3600 = -33 or EP_PISCED_3603 = -33 or EP_PISCED_3604 = -33 or
EP_PISCED_3605 = -33 then -33
        when EP_PISCED_3600 = -66 or EP_PISCED_3603 = -66 or EP_PISCED_3604 = -66 or
EP_PISCED_3605 = -66 then -66
        else EP_ISCED123_600
        end
/*

*/
set    EP_ISCED123_700 = case
        when EP_PISCED_3700 = 1    or EP_PISCED_3703 = 1    or EP_PISCED_3704 = 1 or
EP_PISCED_3705 = 1 then 1
        when EP_PISCED_3700 = 0    or EP_PISCED_3703 = 0    or EP_PISCED_3704 = 0 or
EP_PISCED_3705 = 0 then 0
        when EP_PISCED_3700 = -22 or EP_PISCED_3703 = -22 or EP_PISCED_3704 = -22 or
EP_PISCED_3705 = -22 then -22
        when EP_PISCED_3700 = -33 or EP_PISCED_3703 = -33 or EP_PISCED_3704 = -33 or
EP_PISCED_3705 = -33 then -33
        when EP_PISCED_3700 = -66 or EP_PISCED_3703 = -66 or EP_PISCED_3704 = -66 or
EP_PISCED_3705 = -66 then -66
        else EP_ISCED123_700
        end
/*
```

EDE_ISCED123

Variable Label

Educational enrolment, coded to ISCED-P 2011 3 digits (level, orientation, access)

Value Labels

Scale: ordinal (categorical)
1   "ISCED 1"
2   "ISCED 2"
3   "gen ISCED 3 short"
4   "voc ISCED 3 short
5   "gen ISCED 3 access 3
6   "gen ISCED 3 access 3/4
7   "gen ISCED 3 access 5/6/7
8   "voc ISCED 3 access 3
9   "voc ISCED 3 access 3/4
10 "voc ISCED 3 access 5/6/7
11 "gen ISCED 4 access 5/6/7
12 "voc ISCED 4 access 4
13 "voc ISCED 4 access 5/6/7
14   "ISCED 5 nfs
15   "gen ISCED 5

16   "voc ISCED 5

17   "ISCED 6

18   "ISCED 7

19   "ISCED 8

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
B2_Q05b

SQL code
```
*/
set    EDE_ISCED123 = case B2_Q05b
            when 1 then 100
            when 2 then 200
            when 3 then 200
            when 4 then 200
            when 5 then 351
            when 6 then 341
            when 7 then 300
            when 8 then 352
            when 9 then 342
            when 10 then 353
            when 11 then 343
            when 12 then 354
            when 13 then 344
            when 14 then 400
            when 15 then 453
            when 16 then 443
            when 17 then 454
            when 18 then 444
            when 19 then 500
            when 20 then 550
            when 21 then 540
            when 22 then 600
            when 23 then 600
            when 24 then 600
            when 25 then 700
            when 26 then 700
            when 27 then 700
            when 28 then 800
            when 29 then 600
            when 30 then 700
            else B2_Q05b
            end
```

/*

EDI_ISCED123

Variable Label

Last incomplete education, coded to ISCED-A 2011 3 digits (level, orientation, access)

Value Labels

Scale: ordinal (categorical)

1 "ISCED 1"
2 "ISCED 2"
3 "gen ISCED 3 short"
4 "voc ISCED 3 short
5 "gen ISCED 3 access 3
6 "gen ISCED 3 access 3/4
7 "gen ISCED 3 access 5/6/7
8 "voc ISCED 3 access 3
9 "voc ISCED 3 access 3/4
10 "voc ISCED 3 access 5/6/7
11 "gen ISCED 4 access 5/6/7
12 "voc ISCED 4 access 4
13 "voc ISCED 4 access 5/6/7
14 "ISCED 5 nfs
15 "gen ISCED 5
16 "voc ISCED 5
17 "ISCED 6
18 "ISCED 7
19 "ISCED 8
. "Not administered"
.R "Refused"
.D "Don't know"
.N "Not stated or inferred"
.V "Valid skip''

Reference variables

B2_Q06b

SQL code

```
*/
set   EDI_ISCED123 = case B2_Q06b
          when 1 then 100
          when 2 then 200
          when 3 then 200
          when 4 then 200
          when 5 then 254
          when 6 then 244
          when 7 then 300
```

```
            when 8 then 352
            when 9 then 342
            when 10 then 353
            when 11 then 343
            when 12 then 354
            when 13 then 344
            when 14 then 400
            when 15 then 453
            when 16 then 443
            when 17 then 454
            when 18 then 444
            when 19 then 500
            when 20 then 550
            when 21 then 540
            when 22 then 600
            when 23 then 600
            when 24 then 600
            when 25 then 700
            when 26 then 700
            when 27 then 700
            when 28 then 800
            when 29 then 600
            when 30 then 700
            else B2_Q06b
            end
    /*
```

EDA_ISCED1

Variable Label

Educational attainment, coded to ISCED-A 2011 digit 1 (level)

Value Labels

Scale: ordinal (categorical)

0   "ISCED 0"
1   "ISCED 1"
2   "ISCED 2"
3   "ISCED 3"
4   "ISCED 4"
5   "ISCED 5"
6   "ISCED 6"
7   "ISCED 7"
8   "ISCED 8"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables
EDA_ISCED123

SQL code
```
*/
set   EDA_ISCED1 = case EDA_ISCED123
          when 0   then 0
          when 100 then 1
          when 200 then 2
          when 254 then 2
          when 244 then 2
          when 300 then 3
          when 352 then 3
          when 342 then 3
          when 353 then 3
          when 343 then 3
          when 354 then 3
          when 344 then 3
          when 400 then 4
          when 453 then 4
          when 443 then 4
          when 454 then 4
          when 444 then 4
          when 500 then 5
          when 550 then 5
          when 540 then 5
          when 600 then 6
          when 700 then 7
          when 800 then 8
          else EDA_ISCED123
          end
/*
```

EDA_ISCED1_C
Variable Label

Educational attainment, coded to ISCED-A 2011 digit 1 (level) (7 categories)

Value Labels

Scale: ordinal (categorical)

1   "ISCED 1 and below"
2   "ISCED 2"
3   "ISCED 3"
4   "ISCED 4"
5   "ISCED 5"
6   "ISCED 6"

7   "ISCED 7 and above"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

EDA_ISCED1

SQL code
```
*/
set     EDA_ISCED1_C = case
                        when EDA_ISCED1 = 0 then 1
                        when EDA_ISCED1 = 1 then 1
                        when EDA_ISCED1 = 7 then 7
                        when EDA_ISCED1 = 8 then 7
                        else EDA_ISCED1
                        end
/*
```

EGC_ISCED1

Variable Label

Qualification needed to get respondent's current job, coded to ISCED-A 2011 digit 1 (level)

Value Labels

Scale: ordinal (categorical)

0   "ISCED 0"

1   "ISCED 1"

2   "ISCED 2"

3   "ISCED 3"

4   "ISCED 4"

5   "ISCED 5"

6   "ISCED 6"

7   "ISCED 7"

8   "ISCED 8"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EGC_ISCED123

SQL code
```
*/
```

```
set   EGC_ISCED1 = case EGC_ISCED123
            when 0   then 0
            when 100 then 1
            when 200 then 2
            when 254 then 2
            when 244 then 2
            when 300 then 3
            when 352 then 3
            when 342 then 3
            when 353 then 3
            when 343 then 3
            when 354 then 3
            when 344 then 3
            when 400 then 4
            when 453 then 4
            when 443 then 4
            when 454 then 4
            when 444 then 4
            when 500 then 5
            when 550 then 5
            when 540 then 5
            when 600 then 6
            when 700 then 7
            when 800 then 8
            else EGC_ISCED123
            end
/*
```

EGL_ISCED1

Variable Label

Qualification needed to get respondent's last job, coded to ISCED-A 2011 digit

Value Labels

Scale: ordinal (categorical)

0   "ISCED 0"
1   "ISCED 1"
2   "ISCED 2"
3   "ISCED 3"
4   "ISCED 4"
5   "ISCED 5"
6   "ISCED 6"
7   "ISCED 7"
8   "ISCED 8"
.   "Not administered"
.R   "Refused"
.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EGL_ISCED123

SQL code

```
*/
set   EGL_ISCED1 = case EGL_ISCED123
         when 0   then 0
         when 100 then 1
         when 200 then 2
         when 254 then 2
         when 244 then 2
         when 300 then 3
         when 352 then 3
         when 342 then 3
         when 353 then 3
         when 343 then 3
         when 354 then 3
         when 344 then 3
         when 400 then 4
         when 453 then 4
         when 443 then 4
         when 454 then 4
         when 444 then 4
         when 500 then 5
         when 550 then 5
         when 540 then 5
         when 600 then 6
         when 700 then 7
         when 800 then 8
         else EGL_ISCED123
         end
/*
```

EDE_ISCED1

Variable Label

Educational enrolment, coded to ISCED-P 2011 digit 1 (level)

Value Labels

Scale: ordinal (categorical)

0   "ISCED 0"

1   "ISCED 1"

2   "ISCED 2"

3   "ISCED 3"

4   "ISCED 4"

5   "ISCED 5"

6   "ISCED 6"

7   "ISCED 7"

8   "ISCED 8"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EDE_ISCED123

SQL code

```
*/
set   EDE_ISCED1 = case EDE_ISCED123
          when 100 then 1
          when 200 then 2
          when 351 then 3
          when 341 then 3
          when 300 then 3
          when 352 then 3
          when 342 then 3
          when 353 then 3
          when 343 then 3
          when 354 then 3
          when 344 then 3
          when 400 then 4
          when 453 then 4
          when 443 then 4
          when 454 then 4
          when 444 then 4
          when 500 then 5
          when 550 then 5
          when 540 then 5
          when 600 then 6
          when 700 then 7
          when 800 then 8
          else EDE_ISCED123
          end
/*
```

EDE_ISCED1_C

Variable Label

Educational enrolment, coded to ISCED-P 2011 digit 1 (level) (7 categories)

Value Labels

Scale: ordinal (categorical)

1   "ISCED 1 and below"

2   "ISCED 2"

3   "ISCED 3"

4   "ISCED 4"

5   "ISCED 5"

6   "ISCED 6"

7   "ISCED 7 and above"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

EDE_ISCED1

SQL code

```
*/
set     EDE_ISCED1_C = case
                        when EDE_ISCED1 = 0 then 1
                        when EDE_ISCED1 = 1 then 1
                        when EDE_ISCED1 = 7 then 7
                        when EDE_ISCED1 = 8 then 7
                        else EDE_ISCED1
                        end
/*
```

EDI_ISCED1

Variable Label

Last incomplete education, coded to ISCED-A 2011 digit 1 (level)

Value Labels

Scale: ordinal (categorical)

Scale: ordinal (categorical)

0   "ISCED 0"

1   "ISCED 1"

2   "ISCED 2"

3   "ISCED 3"

4   "ISCED 4"

5   "ISCED 5"

6   "ISCED 6"

7   "ISCED 7"

8   "ISCED 8"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

SQL code
```
*/
set   EDI_ISCED1 = case EDI_ISCED123
            when 100 then 1
            when 200 then 2
            when 254 then 2
            when 244 then 2
            when 300 then 3
            when 352 then 3
            when 342 then 3
            when 353 then 3
            when 343 then 3
            when 354 then 3
            when 344 then 3
            when 400 then 4
            when 453 then 4
            when 443 then 4
            when 454 then 4
            when 444 then 4
            when 500 then 5
            when 550 then 5
            when 540 then 5
            when 600 then 6
            when 700 then 7
            when 800 then 8
            else EDI_ISCED123
            end
/*
```

EDI_ISCED1_C

Variable Label

Last incomplete education, coded to ISCED-A 2011 digit 1 (level) (7 categories)

Value Labels

Scale: ordinal (categorical)

1   "ISCED 1 and below"
2   "ISCED 2"
3   "ISCED 3"
4   "ISCED 4"
5   "ISCED 5"
6   "ISCED 6"
7   "ISCED 7 and above"

. "Undefined missing data"

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

Reference variables
EDI_ISCED1

SQL code
```
*/
set     EDI_ISCED1_C = case
                        when EDI_ISCED1 = 0 then 1
                        when EDI_ISCED1 = 1 then 1
                        when EDI_ISCED1 = 7 then 7
                        when EDI_ISCED1 = 8 then 7
                        else EDI_ISCED1
                        end
/*
```

FE12C2

Variable Label

Participated in formal education in 12 months preceding survey

Value Labels

Scale: binary (categorical)

0   "Did not participate in FE"

1   "Participated in FE"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

A2_D01a3, B2_D01d, B2_D03d, B2_Q05a, B2_Q04b2, B2_Q06c2

SQL code
```
*/
set FE12C2 = case
     when (B2_D01d <= 12 and B2_D01d not in (-66, -22, -33, -99, -88)) or (B2_D03d <= 12 and
B2_D03d not in (-66, -22, -33, -99, -88)) or B2_Q05a = 1 then 1
     when ((B2_D01d > 12 and B2_D01d not in (-66, -22, -33, -99, -88)) or (B2_D03d > 12 and B2_D03d
not in (-66, -22, -33, -99, -88)) and B2_Q05a = 2) or (((A2_D01a3 - B2_Q04b2) >= 2) and ((A2_D01a3 -
B2_Q06c2) >= 2)) then 0
```

```
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

AETPOPC2

Variable Label

Adult education/training population (AET) – excludes youths 16-24 in initial cycle of studies

Value Labels

Scale: binary (categorical)

0   "Excluded from AET population"

1   "AET population"

.   "Not administered"

.N   "Not stated or inferred"

Reference variables

AGE_R, FE12C2, EDA_ISCED1, B2_Q05a, B2_Q05b_TC1, B2_Q06a, B2_Q06b

SQL code

```
*/
set AETPOPC2 = case
    when ((AGE_R between 16 and 19) and (FE12C2 = 1) and (FE12C2 not in (-66, -22, -33, -99, -88))
and (EDA_ISCED1 < 3)) then 1
    when ((AGE_R between 16 and 19) and (B2_Q05a = 1) and (B2_Q05b_TC1 < 4) and (B2_Q05b_TC1
not in (-66, -22, -33, -99, -88))) then 1
    when ((AGE_R between 16 and 19) and (FE12C2 = 1) and (B2_Q06a = 1) and (B2_Q06b < 4) and
(B2_Q06b not in (-66, -22, -33, -99, -88))) then 1
    when ((AGE_R between 16 and 24) and (FE12C2 = 1) and (FE12C2 not in (-66, -22, -33, -99, -88))
and (EDA_ISCED1 < 4)) then 1
    when ((AGE_R between 16 and 24) and (B2_Q05a = 1) and (B2_Q05b_TC1 < 7) and B2_Q05b_TC1
not in (-66, -22, -33, -99, -88)) then 1
    when ((AGE_R between 16 and 24) and (FE12C2 = 1) and (B2_Q06a = 1) and (B2_Q06b < 7) and
(B2_Q06b not in (-66, -22, -33, -99, -88))) then 1
    when ((AGE_R > 24) and (FE12C2 = 1)) then 1
    when FE12C2 in (0, -66, -22, -33, -99, -88) then 1
    when DISP_CIBQ = -88 then -88
    else -99
    end
/*
```

FAET12C2

Variable Label

Participated in formal AET in 12 months preceding survey (see AETPOP)

Value Labels

Scale: binary (categorical)

0   "Did not participate in formal AET"

1   "Participated in formal AET"

.   "Not administered"

.A   "Student in regular cycle of studies"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

AETPOPC2

SQL code

```
*/
set FAET12C2 = case
    when AETPOPC2 = 0 then -55
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else FAET12C2
    end
/*
```

NEETC2

Variable Label

Adults not employed at time of survey and not in education or training in 12 months preceding the survey

Value Labels

Scale: binary (categorical)

0   "Employed or participated in education or training in last 12 months"

1   "Not currently employed and did not participate in education or training in last 12 months (NEET)"

.   "Not administered"

.U   "Unknown"

Reference variables

C2_D05, FE12C2, NFE12C2

SQL code

```
*/
set NEETC2 = case
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when C2_D05 in (-88,4) or FE12C2= -99 or NFE12C2= -99 then -66
    when C2_D05 <> 1 and (FE12C2 <> 1 and NFE12C2 <> 1) then 1
    when C2_D05 = 1 or FE12C2 = 1 or NFE12C2 = 1 then 0
    else -66
```

```
        end
/*
```

EDWORKC2

Interaction between adults' work and education status

Scale: discrete (categorical)

1	"In education only"
2	"In education and work"
3	"In work only"
4	"Not in education or work but has participated in education or training in last 12 months"
5	"Not in education or work and has not participated in education or training in last 12 months (NEET)"
.	"Not administered"
.U	"Unknown"

C2_D05, B2_Q05a, FE12C2, NFE12C2

```
*/
set EDWORKC2 = case
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when C2_D05 in (-88,4) then -66
    when C2_D05 <> 1 and B2_Q05a = 1 then 1
    when C2_D05 = 1 and B2_Q05a = 1 then 2
    when C2_D05 = 1 and B2_Q05a <> 1 then 3
    when C2_D05 <> 1 and B2_Q05a <> 1 and (FE12C2 = 1 or NFE12C2 = 1) then 4
    when C2_D05 <> 1 and B2_Q05a <> 1 and (FE12C2 <> 1 or NFE12C2 <> 1) then 5
    else -66
    end
/*
```

LEAVER1624C2

Variable Label

Youth aged 16 to 24 who have left education without completing ISCED 3 or higher

Value Labels

Scale: discrete (categorical)

0   "Completed ISCED 3 or is still in education, aged 16 to 24"

1   "Not in education, did not complete ISCED 3, aged 16 to 24"

.   "Not administered"

.A   "Adults older than 24"

.U   "Unknown"

Reference variables

AGE_R, EDA_ISCED1, B2_Q05a

SQL code

```
*/
set LEAVER1624C2 = case
    when DISP_CIBQ  = -88 or DISP_DS > 0 then -88
    when AGE_R between 16 and 24 and EDA_ISCED1 in (0, 1, 2) and B2_Q05a <> 1 then 1
    when AGE_R between 16 and 24 and (EDA_ISCED1 in (3, 4, 5, 6, 7, 8) or B2_Q05a = 1) then 0
    when AGE_R >= 25 then -55
    else -66
    end
/*
```

Labour force variables

C2_Q09c1_C
Variable Label

Current status/work history - Age when stopped working in last job (categorised, 10 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"
7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55-59"
10	"Aged 60-65"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

C2_Q09c1

SQL code

```
*/
set C2_Q09c1_C = case
    when C2_Q09c1 between 0 and 19 then 1
    when C2_Q09c1 between 20 and 24 then 2
    when C2_Q09c1 between 25 and 29 then 3
    when C2_Q09c1 between 30 and 34 then 4
    when C2_Q09c1 between 35 and 39 then 5
    when C2_Q09c1 between 40 and 44 then 6
    when C2_Q09c1 between 45 and 49 then 7
    when C2_Q09c1 between 50 and 54 then 8
    when C2_Q09c1 between 55 and 59 then 9
    when C2_Q09c1 between 60 and 65 then 10
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (C2_Q09c1 = -88)) then -99
    when C2_Q09c1 = -77 then -99
    else C2_Q09c1
    end
```

/*

C2_Q10_C
Variable Label
Current status/work history - Years of paid work during lifetime (top-coded at 47)

Value Labels
Scale: continuous

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

Reference variables
C2_Q10

SQL code
```
*/
set C2_Q10_C = case
    when C2_Q10 > 47 then 47
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    when ((DISP_CIBQ > 0) and (C2_Q10 = -88)) then -99
    when C2_Q10 = -77 then -99
    else C2_Q10
    end
/*
```

C2_Q12_C
Variable Label
Current status/work history - Last 5 years - How many diff firms or organisations (top-coded at 7)
Value Labels
Scale: continuous

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.V "Valid skip''

Reference variables
C2_Q12
SQL code
```
*/
set C2_Q12_C = case
    when C2_Q12 > 7 then 7
```

```
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      when ((DISP_CIBQ > 0) and (C2_Q12 = -88)) then -99
      when C2_Q12 = -77 then -99
      else C2_Q12
      end
/*
```

D2_Q10_C

Variable Label

Current work - Type of contract (3 categories)

Value Labels

Scale: discrete (categorical)

1   "An indefinite contract"

2   "A fixed term contract, including season"

3   "Other"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

D2_Q10

SQL code

```
*/
set     D2_Q10_C = case
          when D2_Q10 = 1 then 1
          when D2_Q10 = 2 then 2
          when D2_Q10 between 3 and 8 then 3
          else D2_Q10
          end
/*
```

D2_Q11_C

Variable Label

Current work - hours/week (top-coded at 60)

Value Labels

Scale: continuous

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables
D2_Q11

SQL code
```
*/
set D2_Q11_C = case
      when D2_Q11 >60 then 60
      when DISP_CIBQ = -88 or DISP_DS > 0 then -88
      when ((DISP_CIBQ >0) and (D2_Q11 = -88)) then -99
      when D2_Q11 = -77 then -99
      else D2_Q11
      end
/*
```

E2_Q05b1_C

Variable Label

Last job - Start of work for business - Age (categorised, 9 categories)

Value Labels

Scale: ordinal (categorical)

1	"Aged 0-19"
2	"Aged 20-24"
3	"Aged 25-29"
4	"Aged 30-34"
5	"Aged 35-39"
6	"Aged 40-44"
7	"Aged 45-49"
8	"Aged 50-54"
9	"Aged 55 or older"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables
E2_Q05b1

SQL code
```
*/
set E2_Q05b1_C = case
      when E2_Q05b1 between 0 and 19 then 1
      when E2_Q05b1 between 20 and 24 then 2
      when E2_Q05b1 between 25 and 29 then 3
      when E2_Q05b1 between 30 and 34 then 4
      when E2_Q05b1 between 35 and 39 then 5
```

```
        when E2_Q05b1 between 40 and 44 then 6
        when E2_Q05b1 between 45 and 49 then 7
        when E2_Q05b1 between 50 and 54 then 8
        when E2_Q05b1 between 55 and 95 then 9
        when DISP_CIBQ = -88 or DISP_DS > 0 then -88
        when ((DISP_CIBQ > 0) and (E2_Q05b1 = -88)) then -99
        when E2_Q05b1 = -77 then -99
        else E2_Q05b1
        end
/*
```

E2_Q06_C

Variable Label

Last job - Amount of people working for employer (4 categories)

Value Labels

Scale: ordinal (categorical)

1   "1 to 10 people"
2   "11 to 49 people"
3   "50 to 249 people"
4   "250 and more people"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables

E2_Q06

SQL code

```
*/
set     E2_Q06_C = case
          when E2_Q06 = 1 then 1
          when E2_Q06 = 2 then 2
          when E2_Q06 = 3 then 3
          when E2_Q06 between 4 and 6 then 4
          else E2_Q06
                end
/*
```

E2_Q08_C

Variable Label

Last job - Type of contract (3 categories)

Value Labels

Scale: discrete (categorical)

1   "An indefinite contract"
2   "A fixed term contract, including season"
3   "Other"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables
E2_Q08

SQL code
```
*/
set     E2_Q08_C = case
          when E2_Q08 = 1 then 1
          when E2_Q08 = 2 then 2
          when E2_Q08 between 3 and 8 then 3
          else E2_Q08
                        end
/*
```

J2_Q07_C

Variable Label

Background - At age 14 - Place where you lived (4 categories)

Value Labels

Scale: discrete (categorical)
1   "A big city"
2   "The suburbs or outskirts of a big city"
3   "A town or a small city"
4   "A country village, a farm or home in the countryside"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.V   "Valid skip''

Reference variables
J2_Q07

SQL code
```
*/
set     J2_Q07_C = case
                        when J2_Q07 = 1 then 1
                        when J2_Q07 = 2 then 2
                        when J2_Q07 = 3 then 3
                        when J2_Q07 between 4 and 5 then 4
```

```
                    else J2_Q07
                    end
/*
```

PAIDWORK5

Variable Label

Adults who have had paid work in last 5 years

Value Labels

Scale: binary (categorical)

0	"Has not had paid work in past 5 years"
1	"Has had paid work in past 5 years"
.	"Not administered"
.A	"Has not worked more than 5 years"
.N	"Not stated or inferred"
.U	"Unknown''

Reference variables

C2_D06, C2_Q09a, C2_D09c, A2_D01a3, C2_Q09c2

SQL code

```
*/
set PAIDWORK5 = case
    when C2_D06 in (1, 2) then 1
    when C2_Q09a = 1 and C2_D09c = 1 then 1
    when C2_Q09a = 1 and A2_D01a3 >= 0 and C2_Q09c2 >= 0 and (A2_D01a3-C2_Q09c2)>5 then 0
    when C2_Q09a = 2 then 0
    when DISP_CIBQ = '-88' or DISP_DS > 0 then -88
    else -66
    end
/*
```

PAIDWORK12

Variable Label

Adults who have had paid work during the 12 months preceding the survey

Value Labels

Scale: binary (categorical)

0	"Has not had paid work during the 12 months preceding the survey"
1	"Has had paid work during the 12 months preceding the survey"
.	"Not administered"
.N	"Not stated or inferred"

Reference variables

C2_D06, C2_Q09a, C2_Q09b

```
*/
set PAIDWORK12 = case
    when C2_D06 in (1,2) then 1
    when C2_Q09b = 1 then 1
    when C2_Q09a = 2 or C2_Q09b = 2 then 0
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

NOPAIDWORKEVER

Variable Label

Adults who never had paid work including self-employment in past

Value Labels

Scale: binary (categorical)

0	"Has had paid work"
1	"Has not had paid work ever"
.	"Not administered"
.U	"Unknown"
.N	"Not stated or inferred"

Reference variables

C2_D06, C2_Q09a

SQL code

```
*/
set NOPAIDWORKEVER = case
    when C2_Q09a = 2 then 1
    when C2_Q09a = 1 then 0
    when C2_D06 in (1,2) then 0
    when DISP_CIBQ = -88 or DISP_DS > 0 then -88
    else -99
    end
/*
```

ISIC2L

Variable Label

Industry classification of respondent's job at 2-digit level (ISIC rev 4), last job

Value Labels

Scale: discrete (categorical)

"01"	"Crop and animal production, hunting and related service activities"
"02"	"Forestry and logging"
"03"	"Fishing and aquaculture"
"05"	"Mining of coal and lignite"

"06"   "Extraction of crude petroleum and natural gas"

"07"   "Mining of metal ores"

"08"   "Other mining and quarrying"

"09"   "Mining support service activities"

"10"   "Manufacture of food products"

"11"   "Manufacture of beverages"

"12"   "Manufacture of tobacco products"

"13"   "Manufacture of textiles"

"14"   "Manufacture of wearing apparel"

"15"   "Manufacture of leather and related products"

"16"   "Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plait"

"17"   "Manufacture of paper and paper products"

"18"   "Printing and reproduction of recorded media"

"19"   "Manufacture of coke and refined petroleum products"

"20"   "Manufacture of chemicals and chemical products"

"21"   "Manufacture of basic pharmaceutical products and pharmaceutical preparations"

"22"   "Manufacture of rubber and plastics products"

"23"   "Manufacture of other non-metallic mineral products"

"24"   "Manufacture of basic metals"

"25"   "Manufacture of fabricated metal products, except machinery and equipment"

"26"   "Manufacture of computer, electronic and optical products"

"27"   "Manufacture of electrical equipment"

"28"   "Manufacture of machinery and equipment n.e.c."

"29"   "Manufacture of motor vehicles, trailers and semi-trailers"

"30"   "Manufacture of other transport equipment"

"31"   "Manufacture of furniture"

"32"   "Other manufacturing"

"33"   "Repair and installation of machinery and equipment"

"35"   "Electricity, gas, steam and air conditioning supply"

"36"   "Water collection, treatment and supply"

"37"   "Sewerage"

"38"   "Waste collection, treatment and disposal activities; materials recovery"

"39"   "Remediation activities and other waste management services"

"41"   "Construction of buildings"

"42"   "Civil engineering"

"43"   "Specialized construction activities"

"45"   "Wholesale and retail trade and repair of motor vehicles and motorcycles"

"46"   "Wholesale trade, except of motor vehicles and motorcycles"

"47"   "Retail trade, except of motor vehicles and motorcycles"

"49"   "Land transport and transport via pipelines"

"50"   "Water transport"

"51"   "Air transport"

"52"   "Warehousing and support activities for transportation"

"53"   "Postal and courier activities"

"55"   "Accommodation"

"56"   "Food and beverage service activities"

"58"   "Publishing activities"

"59"   "Motion picture, video and television programme production, sound recording and music publishing activities"

"60"   "Programming and broadcasting activities"

"61"   "Telecommunications"

"62"   "Computer programming, consultancy and related activities"

"63"   "Information service activities"

"64"   "Financial service activities, except insurance and pension funding"

"65"   "Insurance, reinsurance and pension funding, except compulsory social security"

"66"   "Activities auxiliary to financial service and insurance activities"

"68"   "Real estate activities"

"69"   "Legal and accounting activities"

"70"   "Activities of head offices; management consultancy activities"

"71"   "Architectural and engineering activities; technical testing and analysis"

"72"   "Scientific research and development"

"73"   "Advertising and market research"

"74"   "Other professional, scientific and technical activities"

"75"   "Veterinary activities"

"77"   "Rental and leasing activities"

"78"   "Employment activities"

"79"   "Travel agency, tour operator, reservation service and related activities"

"80"   "Security and investigation activities"

"81"   "Services to buildings and landscape activities"

"82"   "Office administrative, office support and other business support activities"

"84"   "Public administration and defence; compulsory social security"

"85"   "Education"

"86"   "Human health activities"

"87"   "Residential care activities"

"88"   "Social work activities without accommodation"

"90"   "Creative, arts and entertainment activities"

"91"   "Libraries, archives, museums and other cultural activities"

"92"   "Gambling and betting activities"

"93"   "Sports activities and amusement and recreation activities"

"94"   "Activities of membership organizations"

"95"   "Repair of computers and personal and household goods"

"96"   "Other personal service activities"

"97"   "Activities of households as employers of domestic personnel"

"98"   "Undifferentiated goods- and services-producing activities of private households for own use"

"99"   "Activities of extraterritorial organizations and bodies"

"A"   "Agriculture, forestry and fishing"

"F"   "Construction"

"G"   "Wholesale and retail trade; repair of motor vehicles and motorcycles"

"H"   "Transportation and storage"

"Q"   "Human health and social work activities"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.V   "Valid skip''

Reference variables

ISIC4_L, PAIDWORK5

SQL code

```
*/
set ISIC2L = case
    when PAIDWORK5 = 0 then '-55'
    when ISIC4_L = '-66' then '-66'
    when ISIC4_L = '-22' then '-22'
    when ISIC4_L = '-33' then '-33'
    when ISIC4_L = '-88' then '-88'
    when ISIC4_L = '-99' then '-99'
    when ISIC4_L not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISIC4_L,1,2)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

ISIC2C

Variable Label

Industry classification of respondent's job at 2-digit level (ISIC rev 4), current job

Value Labels

Scale: discrete (categorical)

"01"   "Crop and animal production, hunting and related service activities"

"02"   "Forestry and logging"

"03"   "Fishing and aquaculture"

"05"   "Mining of coal and lignite"

"06"   "Extraction of crude petroleum and natural gas"

"07"   "Mining of metal ores"

"08"   "Other mining and quarrying"

"09"   "Mining support service activities"

"10"   "Manufacture of food products"

"11"   "Manufacture of beverages"

"12"   "Manufacture of tobacco products"

"13"   "Manufacture of textiles"

"14"   "Manufacture of wearing apparel"

"15"   "Manufacture of leather and related products"

"16"   "Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plait"

"17"   "Manufacture of paper and paper products"

"18"   "Printing and reproduction of recorded media"

"19"   "Manufacture of coke and refined petroleum products"

"20"   "Manufacture of chemicals and chemical products"

"21"   "Manufacture of basic pharmaceutical products and pharmaceutical preparations"
"22"   "Manufacture of rubber and plastics products"
"23"   "Manufacture of other non-metallic mineral products"
"24"   "Manufacture of basic metals"
"25"   "Manufacture of fabricated metal products, except machinery and equipment"
"26"   "Manufacture of computer, electronic and optical products"
"27"   "Manufacture of electrical equipment"
"28"   "Manufacture of machinery and equipment n.e.c."
"29"   "Manufacture of motor vehicles, trailers and semi-trailers"
"30"   "Manufacture of other transport equipment"
"31"   "Manufacture of furniture"
"32"   "Other manufacturing"
"33"   "Repair and installation of machinery and equipment"
"35"   "Electricity, gas, steam and air conditioning supply"
"36"   "Water collection, treatment and supply"
"37"   "Sewerage"
"38"   "Waste collection, treatment and disposal activities; materials recovery"
"39"   "Remediation activities and other waste management services"
"41"   "Construction of buildings"
"42"   "Civil engineering"
"43"   "Specialized construction activities"
"45"   "Wholesale and retail trade and repair of motor vehicles and motorcycles"
"46"   "Wholesale trade, except of motor vehicles and motorcycles"
"47"   "Retail trade, except of motor vehicles and motorcycles"
"49"   "Land transport and transport via pipelines"
"50"   "Water transport"
"51"   "Air transport"
"52"   "Warehousing and support activities for transportation"
"53"   "Postal and courier activities"
"55"   "Accommodation"
"56"   "Food and beverage service activities"
"58"   "Publishing activities"
"59"   "Motion picture, video and television programme production, sound recording and music publishing activities"
"60"   "Programming and broadcasting activities"
"61"   "Telecommunications"
"62"   "Computer programming, consultancy and related activities"
"63"   "Information service activities"
"64"   "Financial service activities, except insurance and pension funding"
"65"   "Insurance, reinsurance and pension funding, except compulsory social security"
"66"   "Activities auxiliary to financial service and insurance activities"
"68"   "Real estate activities"
"69"   "Legal and accounting activities"
"70"   "Activities of head offices; management consultancy activities"
"71"   "Architectural and engineering activities; technical testing and analysis"
"72"   "Scientific research and development"
"73"   "Advertising and market research"
"74"   "Other professional, scientific and technical activities"

"75"   "Veterinary activities"
"77"   "Rental and leasing activities"
"78"   "Employment activities"
"79"   "Travel agency, tour operator, reservation service and related activities"
"80"   "Security and investigation activities"
"81"   "Services to buildings and landscape activities"
"82"   "Office administrative, office support and other business support activities"
"84"   "Public administration and defence; compulsory social security"
"85"   "Education"
"86"   "Human health activities"
"87"   "Residential care activities"
"88"   "Social work activities without accommodation"
"90"   "Creative, arts and entertainment activities"
"91"   "Libraries, archives, museums and other cultural activities"
"92"   "Gambling and betting activities"
"93"   "Sports activities and amusement and recreation activities"
"94"   "Activities of membership organizations"
"95"   "Repair of computers and personal and household goods"
"96"   "Other personal service activities"
"97"   "Activities of households as employers of domestic personnel"
"98"   "Undifferentiated goods- and services-producing activities of private households for own use"
"99"   "Activities of extraterritorial organizations and bodies"
"A"   "Agriculture, forestry and fishing"
"F"   "Construction"
"G"   "Wholesale and retail trade; repair of motor vehicles and motorcycles"
"H"   "Transportation and storage"
"Q"   "Human health and social work activities"
.   "Not administered"
.R   "Refused"
.D   "Don't know"
.N   "Not stated or inferred"
.U   "No paid work for past 5 years"
.V   "Valid skip''

Reference variables
ISIC4_C, PAIDWORK5

SQL code
```
*/
set ISIC2C = case
     when PAIDWORK5 = 0 then '-55'
     when ISIC4_C = '-66' then '-66'
     when ISIC4_C = '-22' then '-22'
     when ISIC4_C = '-33' then '-33'
     when ISIC4_C = '-88' then '-88'
     when ISIC4_C = '-99' then '-99'
     when ISIC4_C not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISIC4_C,1,2)
     when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
```

```
        else '-99'
        end
/*
```

ISIC1L

Variable Label

Industry classification of respondent's job at 1-digit level (ISIC rev 4), last job

Value Labels

Scale: discrete (categorical)

A   "Agriculture, forestry and fishing"

B   "Mining and quarrying"

C   "Manufacturing"

D   "Electricity, gas, steam and air conditioning supply"

E   "Water supply; sewerage, waste management and remediation activities"

F   "Construction"

G   "Wholesale and retail trade; repair of motor vehicles and motorcycles"

H   "Transportation and storage"

I   "Accommodation and food service activities"

J   "Information and communication"

K   "Financial and insurance activities"

L   "Real estate activities"

M   "Professional, scientific and technical activities"

N   "Administrative and support service activities"

O   "Public administration and defence; compulsory social security"

P   "Education"

Q   "Human health and social work activities"

R   "Arts, entertainment and recreation"

S   "Other service activities"

T   "Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use"

U   "Activities of extraterritorial organizations and bodies"

.   "Not administered"

.R   "Refused"

.D   "Don't know"

.N   "Not stated or inferred"

.U   "No paid work for past 5 years"

.V   "Valid skip''

Reference variables

ISIC4_L

SQL code

```
*/
set ISIC1L = case
    when PAIDWORK5 = 0 then '-55'
```

```
        when SUBSTRING(ISIC4_L,1,2) in
('A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U') then SUBSTRING(ISIC4_L,1,2)
        when SUBSTRING(ISIC4_L,1,2) in ('01','02','03') then 'A'
        when SUBSTRING(ISIC4_L,1,2) in ('05','06','07','08','09') then 'B' when SUBSTRING(ISIC4_L,1,2) in
('10','11','12','13','14','15','16','17','18','19','20','21','22',  '23','24','25','26','27','28',  '29','30',  '31','32',
'33') then 'C'
        when SUBSTRING(ISIC4_L,1,2) in ('35') then 'D'
        when SUBSTRING(ISIC4_L,1,2) in ('36','37','38','39') then 'E'
        when SUBSTRING(ISIC4_L,1,2) in ('41','42','43') then 'F'
        when SUBSTRING(ISIC4_L,1,2) in ('45','46','47') then 'G'
        when SUBSTRING(ISIC4_L,1,2) in ('49','50','51','52','53') then 'H'
        when SUBSTRING(ISIC4_L,1,2) in ('55','56') then 'I'
        when SUBSTRING(ISIC4_L,1,2) in ('58','59','60','61','62','63') then 'J'
        when SUBSTRING(ISIC4_L,1,2) in ('64','65','66') then 'K'
        when SUBSTRING(ISIC4_L,1,2) in ('68') then 'L'
        when SUBSTRING(ISIC4_L,1,2) in ('69','70','71','72','73','74','75') then 'M'
        when SUBSTRING(ISIC4_L,1,2) in ('77','78','79','80','81','82') then 'N'
        when SUBSTRING(ISIC4_L,1,2) in ('84') then 'O'
        when SUBSTRING(ISIC4_L,1,2) in ('85') then 'P'
        when SUBSTRING(ISIC4_L,1,2) in ('86','87','88') then 'Q'
        when SUBSTRING(ISIC4_L,1,2) in ('90','91','92','93') then 'R'
        when SUBSTRING(ISIC4_L,1,2) in ('94','95','96') then 'S'
        when SUBSTRING(ISIC4_L,1,2) in ('97','98') then 'T'
        when SUBSTRING(ISIC4_L,1,2) in ('99') then 'U'
        when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
        when ISIC4_L = '-66' then '-66'
        when ISIC4_L = '-22' then '-22'
        when ISIC4_L = '-33' then '-33'
        when ISIC4_L = '-99' then '-99'
        else '-99'
        end
/*
```

ISIC1C

Variable Label

Industry classification of respondent's job at 1-digit level (ISIC rev 4), current job

Value Labels

Scale: discrete (categorical)

A   "Agriculture, forestry and fishing"
B   "Mining and quarrying"
C   "Manufacturing"
D   "Electricity, gas, steam and air conditioning supply"
E   "Water supply; sewerage, waste management and remediation activities"
F   "Construction"
G   "Wholesale and retail trade; repair of motor vehicles and motorcycles"
H   "Transportation and storage"

I "Accommodation and food service activities"

J "Information and communication"

K "Financial and insurance activities"

L "Real estate activities"

M "Professional, scientific and technical activities"

N "Administrative and support service activities"

O "Public administration and defence; compulsory social security"

P "Education"

Q "Human health and social work activities"

R "Arts, entertainment and recreation"

S "Other service activities"

T "Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use"

U "Activities of extraterritorial organizations and bodies"

. "Not administered"

.R "Refused"

.D "Don't know"

.N "Not stated or inferred"

.U "No paid work for past 5 years"

.V "Valid skip''

Reference variables
ISIC4_C

SQL code
```
*/
set ISIC1C = case
    when PAIDWORK5 = 0 then '-55'
            when                SUBSTRING(ISIC4_C,1,2)                  in
('A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U') then SUBSTRING(ISIC4_C,1,2)
    when SUBSTRING(ISIC4_C,1,2) in ('01','02','03') then 'A'
    when SUBSTRING(ISIC4_C,1,2) in ('05','06','07','08','09') then 'B' when SUBSTRING(ISIC4_C,1,2) in
('10','11','12','13','14','15','16','17','18','19','20','21','22',  '23','24','25','26','27','28',  '29','30',  '31','32',
'33') then 'C'
    when SUBSTRING(ISIC4_C,1,2) in ('35') then 'D'
    when SUBSTRING(ISIC4_C,1,2) in ('36','37','38','39') then 'E'
    when SUBSTRING(ISIC4_C,1,2) in ('41','42','43') then 'F'
    when SUBSTRING(ISIC4_C,1,2) in ('45','46','47') then 'G'
    when SUBSTRING(ISIC4_C,1,2) in ('49','50','51','52','53') then 'H'
    when SUBSTRING(ISIC4_C,1,2) in ('55','56') then 'I'
    when SUBSTRING(ISIC4_C,1,2) in ('58','59','60','61','62','63') then 'J'
    when SUBSTRING(ISIC4_C,1,2) in ('64','65','66') then 'K'
    when SUBSTRING(ISIC4_C,1,2) in ('68') then 'L'
    when SUBSTRING(ISIC4_C,1,2) in ('69','70','71','72','73','74','75') then 'M'
    when SUBSTRING(ISIC4_C,1,2) in ('77','78','79','80','81','82') then 'N'
    when SUBSTRING(ISIC4_C,1,2) in ('84') then 'O'
    when SUBSTRING(ISIC4_C,1,2) in ('85') then 'P'
    when SUBSTRING(ISIC4_C,1,2) in ('86','87','88') then 'Q'
```

```
    when SUBSTRING(ISIC4_C,1,2) in ('90','91','92','93') then 'R'
    when SUBSTRING(ISIC4_C,1,2) in ('94','95','96') then 'S'
    when SUBSTRING(ISIC4_C,1,2) in ('97','98') then 'T'
    when SUBSTRING(ISIC4_C,1,2) in ('99') then 'U'
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    when ISIC4_C = '-66' then '-66'
    when ISIC4_C = '-22' then '-22'
    when ISIC4_C = '-33' then '-33'
    when ISIC4_C = '-99' then '-99'
    else '-99'
    end
/*
```

ISCO2L

Variable Label

Occupational classification of respondent's job at 2-digit level (ISCO 2008), last job

Value Labels

Scale: discrete (categorical)

0	"Armed forces occupations"
01	"Commissioned armed forces officers"
02	"Non-commissioned armed forces officers"
03	"Armed forces occupations, other ranks"
1	"Managers"
11	"Chief executives, senior officials and legislators"
12	"Administrative and commercial managers"
13	"Production and specialised services managers"
14	"Hospitality, retail and other services managers"
2	"Professionals"
21	"Science and engineering professionals"
22	"Health professionals"
23	"Teaching professionals"
24	"Business and administration professionals"
25	"Information and communications technology professionals"
26	"Legal, social and cultural professionals"
3	"Technicians and associate professionals"
31	"Science and engineering associate professionals"
32	"Health associate professionals"
33	"Business and administration associate professionals"
34	"Legal, social, cultural and related associate professionals"
35	"Information and communications technicians"
4	"Clerical support workers"
41	"General and keyboard clerks"
42	"Customer services clerks"
43	"Numerical and material recording clerks"
44	"Other clerical support workers"

5	"Service and sales workers"
51	"Personal service workers"
52	"Sales workers"
53	"Personal care workers"
54	"Protective services workers"
6	"Skilled agricultural, forestry and fishery workers"
61	"Market-oriented skilled agricultural workers"
63	"Market-oriented skilled forestry, fishery and hunting workers"
6"	"Subsistence farmers, fishers, hunters and gatherers"
7	"Craft and related trades workers"
71	"Building and related trades workers, excluding electricians"
72	"Metal, machinery and related trades workers"
73	"Handicraft and printing workers"
74	"Electrical and electronic trades workers"
75	"Food processing, wood working, garment and other craft and related trades workers
8	"Plant and machine operators, and assemblers"
81	"Stationary plant and machine operators"
82	"Assemblers"
83	"Drivers and mobile plant operators"
9	"Elementary occupations"
91	"Cleaners and helpers"
92	"Agricultural, forestry and fishery labourers"
93	"Labourers in mining, construction, manufacturing and transport"
94	"Food preparation assistants"
95	"Street and related sales and service workers"
96	"Refuse workers and other elementary workers"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.U	"No paid work for past 5 years"
.V	"Valid skip''

Reference variables
PAIDWORKS5, ISCO08_L

SQL code
```
*/
set ISCO2L = case
    when PAIDWORK5 = 0 then '-55'
    when ISCO08_L = '-66' then '-66'
    when ISCO08_L = '-22' then '-22'
    when ISCO08_L = '-33' then '-33'
    when ISCO08_L = '-88' then '-88'
    when ISCO08_L = '-99' then '-99'
    when ISCO08_L not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_L,1,2)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
```

```
        else '-99'
        end
/*
```

Variable Label

Occupational classification of respondent's job at 2-digit level (ISCO 2008), current job

Value Labels

Scale: discrete (categorical)

0	"Armed forces occupations"
01	"Commissioned armed forces officers"
02	"Non-commissioned armed forces officers"
03	"Armed forces occupations, other ranks"
1	"Managers"
11	"Chief executives, senior officials and legislators"
12	"Administrative and commercial managers"
13	"Production and specialised services managers"
14	"Hospitality, retail and other services managers"
2	"Professionals"
21	"Science and engineering professionals"
22	"Health professionals"
23	"Teaching professionals"
24	"Business and administration professionals"
25	"Information and communications technology professionals"
26	"Legal, social and cultural professionals"
3	"Technicians and associate professionals"
31	"Science and engineering associate professionals"
32	"Health associate professionals"
33	"Business and administration associate professionals"
34	"Legal, social, cultural and related associate professionals"
35	"Information and communications technicians"
4	"Clerical support workers"
41	"General and keyboard clerks"
42	"Customer services clerks"
43	"Numerical and material recording clerks"
44	"Other clerical support workers"
5	"Service and sales workers"
51	"Personal service workers"
52	"Sales workers"
53	"Personal care workers"
54	"Protective services workers"
6	"Skilled agricultural, forestry and fishery workers"
61	"Market-oriented skilled agricultural workers"
63	"Market-oriented skilled forestry, fishery and hunting workers"
6"	"Subsistence farmers, fishers, hunters and gatherers"

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7	"Craft and related trades workers"
71	"Building and related trades workers, excluding electricians"
72	"Metal, machinery and related trades workers"
73	"Handicraft and printing workers"
74	"Electrical and electronic trades workers"
75	"Food processing, wood working, garment and other craft and related trades workers
8	"Plant and machine operators, and assemblers"
81	"Stationary plant and machine operators"
82	"Assemblers"
83	"Drivers and mobile plant operators"
9	"Elementary occupations"
91	"Cleaners and helpers"
92	"Agricultural, forestry and fishery labourers"
93	"Labourers in mining, construction, manufacturing and transport"
94	"Food preparation assistants"
95	"Street and related sales and service workers"
96	"Refuse workers and other elementary workers"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.U	"No paid work for past 5 years"
.V	"Valid skip''

Reference variables
PAIDWORKS5, ISCO08_C

SQL code
```
*/
set ISCO2C = case
    when PAIDWORK5 = 0 then '-55'
    when ISCO08_C = '-66' then '-66'
    when ISCO08_C = '-22' then '-22'
    when ISCO08_C = '-33' then '-33'
    when ISCO08_C = '-88' then '-88'
    when ISCO08_C = '-99' then '-99'
    when ISCO08_C not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_C,1,2)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

ISCO1L

Variable Label

Occupational classification of respondent's job at 1-digit level (ISCO 2008), last job

Value Labels

Scale: discrete (categorical)

0	"Armed forces"
1	"Legislators, senior officials and managers"
2	"Professionals"
3	"Technicians and associate professionals"
4	"Clerks"
5	"Service workers and shop and market sales workers"
6	"Skilled agricultural and fishery workers"
7	"Craft and related trades workers"
8	"Plant and machine operators and assemblers"
9	"Elementary occupations"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.U	"No paid work for past 5 years"
.V	"Valid skip''

Reference variables

PAIDWORK5, ISCO08_L

SQL code

```
*/
set ISCO1L = case
    when PAIDWORK5 = 0 then '-55'
    when ISCO08_L = '-66' then '-66'
    when ISCO08_L = '-22' then '-22'
    when ISCO08_L = '-33' then '-33'
    when ISCO08_L = '-88' then '-88'
    when ISCO08_L = '-99' then '-99'
    when ISCO08_L not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_L,1,1)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

ISCO1C

Variable Label

Occupational classification of respondent's job at 1-digit level (ISCO 2008), current job

Value Labels

Scale: discrete (categorical)

0	"Armed forces"
1	"Legislators, senior officials and managers"
2	"Professionals"
3	"Technicians and associate professionals"
4	"Clerks"
5	"Service workers and shop and market sales workers"
6	"Skilled agricultural and fishery workers"
7	"Craft and related trades workers"
8	"Plant and machine operators and assemblers"
9	"Elementary occupations"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.U	"No paid work for past 5 years"
.V	"Valid skip''

Reference variables
PAIDWORKS5, ISCO08_C

SQL code
```
*/
set ISCO1C = case
    when PAIDWORK5 = 0 then '-55'
    when ISCO08_C = '-66' then '-66'
    when ISCO08_C = '-22' then '-22'
    when ISCO08_C = '-33' then '-33'
    when ISCO08_C = '-88' then '-88'
    when ISCO08_C = '-99' then '-99'
    when ISCO08_C not in ('','-66','-22','-33','-88','-99') then SUBSTRING(ISCO08_C,1,1)
    when DISP_CIBQ = '-88' or DISP_DS > 0 then '-88'
    else '-99'
    end
/*
```

Trends- PIAAC1/IALS/ALL

VET_TC1
Variable Label

Respondent's upper secondary/post-secondary education is vocationally oriented (Trend PIAAC 1/2)

Value Labels

Scale: binary (categorical)

0	"No"
1	"Yes"
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

EDA_PISCED

SQL code

```
*/
set     VET_TC1 = case
            when EDA_PISCED in (2324, 2334, 2344, 2434, 2444) or EDA_PISCED = 1294 then 1
            when EDA_PISCED < 0 then EDA_PISCED
            else 0
            end
/*
```

A2_N02_T
Variable Label

Gender (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1	Male
2	Female
.	"Not administered"
.R	"Refused"
.D	"Don't know"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

A2_N02

```
*/
set A2_N02_T = case
   when A2_N02 = 1 then 1
   when A2_N02 = 2 then 2
   when A2_N02 = -22 then -22
   when A2_N02 = -33 then -33
   when A2_N02 = -66 then -66
   when A2_N02 = -88 then -88
   when A2_N02 = -99 then -99
   else A2_N02
   end
/*
```

A2_Q03a_T

Variable Label

Born in country (Trend-IALS/ALL)

Value Labels

Scale: binary (categorical)

1	"Yes"
2	"No"
.	"Not administered"
.N	"Not stated or inferred"
.V	"Valid skip''

Reference variables

A2_Q03a

SQL code

```
*/
set A2_Q03a_T = case
   when A2_Q03a in (-22, -33) then -33
   else A2_Q03a
   end
/*
```

A2_Q03c2_T

Variable Label

Year of immigration to country (Trend-IALS/ALL)

Value Labels

Scale: continuous

.	"Not administered"
.N	"Not stated or inferred"

.V   "Valid skip''

A2_Q03c2

SQL code
```
*/
set A2_Q03c2_T = case
    when A2_Q03c2 = -22 then -33
    when A2_Q03c2 in (2024) then -99
    else A2_Q03c2
    end
/*
```

A2_Q03c2_T1

Variable Label
Year of immigration to country - range of years (Trend-IALS/ALL)

Value Labels
Scale: ordinal (categorical)
1   "1931-1960"
2   "1961-1990"
3   "1991 or later"
.   Not administered
.V   Valid skip
.D   Don't know
.R   Refused
.N   Not stated or inferred

Reference variables
A2_Q03c2

SQL code
```
*/
set A2_Q03c2_T1 = case
    when A2_Q03c2 between 1900 and 1930 then 1
    when A2_Q03c2 between 1931 and 1960 then 2
    when A2_Q03c2 between 1961 and 1990 then 3
    when A2_Q03c2 between 1991 and 2023 then 4
    when A2_Q03c2 = -66 then -66
    when A2_Q03c2 = -22 then -22
    when A2_Q03c2 = -33 then -33
    when A2_Q03c2 = -99 then -99
    else A2_Q03c2
    end
/*
```

B2_Q01_TC1

Variable Label

Highest level of education (Trend PIAAC 1/2, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1   No formal qualification or below ISCED
2   ISCED 1
3   ISCED 2
4   ISCED 3C shorter than 2 years
5   ISCED 3C 2 years or more
6   ISCED 3A-B
7   ISCED 3 (without distinction A-B-C, 2y+)
8   ISCED 4C
9   ISCED 4B-B
10 ISCED 4 (without distinction A-B-C)
11 ISCED 5B
12 ISCED 5A, bachelor degree
13 ISCED 5A, master degree
14 ISCED 6
.   Not administered
.V Valid skip
.D Don't know
.R Refused
.N Not stated or inferred

Reference variables

B2_Q01

SQL code

```
*/
set   B2_Q01_TC1 = case B2_Q01
          when 0 then 1
          when 1 then 2
          when 2 then 3
          when 3 then 3
          when 4 then 3
          when 5 then 4
          when 6 then 4
          when 7 then 7
          when 8 then 5
          when 9 then 5
          when 10 then 5
          when 11 then 5
          when 12 then 6
          when 13 then 6
          when 14 then 10
          when 15 then 8
          when 16 then 8
```

```
            when 17 then 9
            when 18 then 9
            when 19 then 11
            when 20 then 11
            when 21 then 11
            when 22 then 12
            when 23 then 12
            when 24 then 12
            when 25 then 13
            when 26 then 13
            when 27 then 13
            when 28 then 14
            when 29 then 12
            when 30 then 13
            else B2_Q01
            end
/*
```

B2_Q01c1_T

Variable Label

Age at completion of highest level of schooling (Trend-IALS/ALL)

Value Labels

Scale: continuous

.   Not administered
.V   Valid skip
.D   Don't know
.R   Refused
.N   Not stated or inferred

Reference variables

B2_Q04b1

SQL code

```
*/
set B2_Q01c1_T = B2_Q04b1
/*
```

B2_Q56b_TC1

Variable Label

Level of current education (Trend PIAAC 1/2, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1	"ISCED 1"
2	"ISCED 2"
3	"ISCED 3C shorter than 2 years"
4	"ISCED 3C 2 years or more"
5	"ISCED 3A-B"
6	"ISCED 4C"
7	"ISCED 4A-B"
8	"ISCED 5B"
9	"ISCED 5A, bachelor degree"
10	"ISCED 5A, master degree"
11	"ISCED 6"
.	Not administered
.D	Don't know
.R	Refused
.V	Valid skip

Reference variables
B2_Q05b

SQL code
```
*/
set    B2_Q05b_TC1 = case B2_Q05b
            when 1 then 1
            when 2 then 2
            when 3 then 2
            when 4 then 2
            when 5 then 3
            when 6 then 3
            when 7 then 6
            when 8 then 4
            when 9 then 4
            when 10 then 4
            when 11 then 4
            when 12 then 5
            when 13 then 5
            when 14 then 9
            when 15 then 7
            when 16 then 7
            when 17 then 8
            when 18 then 8
            when 19 then 10
            when 20 then 10
            when 21 then 10
            when 22 then 11
            when 23 then 11
            when 24 then 11
```

```
                when 25 then 12
                when 26 then 12
                when 27 then 12
                when 28 then 13
                when 29 then 11
                when 30 then 12
                else B2_Q05b
                end
/*
```

B2_Q06b_TC1

Variable Label

Level of incomplete education (Trend PIAAC 1/2, ISCED 97)

Value Labels

Scale: ordinal (categorical)

1	"ISCED 1"
2	"ISCED 2"
3	"ISCED 3C shorter than 2 years"
4	"ISCED 3C 2 years or more"
5	"ISCED 3A-B"
6	"ISCED 3 (without distinction A-B-C, 2y+)"
7	"ISCED 4C"
8	"ISCED 4A-B"
9	"ISCED 4 (without distinction A-B-C)"
10	"ISCED 5B"
11	"ISCED 5A, bachelor degree"
12	"ISCED 5A, master degree"
13	"ISCED 6"
.	Not administered
.V	Valid skip
.D	Don't know
.R	Refused
.N	Not stated or inferred

Reference variables

B2_Q06b

SQL code

```
*/
set   B2_Q06b_TC1 = case B2_Q06b
        when 1 then 1
        when 2 then 2
        when 3 then 2
```

```
                when 4 then 2
                when 5 then 3
                when 6 then 3
                when 7 then 6
                when 8 then 4
                when 9 then 4
                when 10 then 4
                when 11 then 4
                when 12 then 5
                when 13 then 5
                when 14 then 9
                when 15 then 7
                when 16 then 7
                when 17 then 8
                when 18 then 8
                when 19 then 10
                when 20 then 10
                when 21 then 10
                when 22 then 11
                when 23 then 11
                when 24 then 11
                when 25 then 12
                when 26 then 12
                when 27 then 12
                when 28 then 13
                when 29 then 11
                when 30 then 12
                else B2_Q06b
                end
/*
```

C2_Q07_T

Variable Label

Current work situation (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   Employed or self employed
2   Retired
3   Not working and looking for work
4   Student (including work programs)
5   Doing unpaid household work
6   Other
.   Not administered

.V   Valid skip
.N   Not stated or inferred

Reference variables
C2_Q07

SQL code
```
*/
set C2_Q07_T = case
   when C2_Q07 = 1 then 1
   when C2_Q07 = 2 then 1
   when C2_Q07 = 6 then 2
   when C2_Q07 = 3 then 3
   when C2_Q07 = 4 then 4
   when C2_Q07 = 5 then 4
   when C2_Q07 = 9 then 5
   when C2_Q07 = 7 then 6
   when C2_Q07 = 8 then 6
   when C2_Q07 = 10 then 6
   when C2_Q07 in (-22, -33) then -33
   else C2_Q07
   end
/*
```

C2_D10_T

Variable Label

Worked at job or business in last 12 months (any number of hours) (Trend-IALS/ALL)

Value Labels

Scale: binary (categorical)

1   "Yes"
2   "No"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables
C2_D10

SQL code
```
*/
set C2_D10_T = case
   when C2_D10 = 1 then 1
   when C2_D10 = 2 then 1
   when C2_D10 = 3 then 2
   when C2_D10 = 4 then 2
   when C2_D10 = 5 then -99
   when C2_D10 in (-22, -33) then -33
   else C2_D10
```

```
   end
/*
```

D2_Q11_T

Variable Label

Hours per week at this job or business - number of hours (Trend-IALS/ALL)

Value Labels

Scale: continuous

. Not administered

.V Valid skip

.N Not stated or inferred

Reference variables

D2_Q11

SQL code

```
*/
set D2_Q11_T = case
   when D2_Q11 between 97 and 125 then 97
   when D2_Q11 = -22 then -33
   else D2_Q11
   end
/*
```

D2_Q12a_TC1

Variable Label

Qualification required to get the respondent's current job (Trend PIAAC 1/2)

Value Labels

Scale: ordinal (categorical)

1 No formal qualification or below ISCED

2 ISCED 1

3 ISCED 2

4 ISCED 3C shorter than 2 years

5 ISCED 3C 2 years or more

6 ISCED 3A-B

7 ISCED 3 (without distinction A-B-C, 2y+)

8 ISCED 4C

9 ISCED 4A-B

10 ISCED 4 (without distinction A-B-C)

11 ISCED 5B

12 ISCED 5A, bachelor degree

13 ISCED 5A, master degree

14 ISCED 6

. Not administered

.V Valid skip

.D Don't know

.R Refused

.N Not stated or inferred

Reference variables
D2_Q12a

SQL code
```
*/
set    D2_Q12a_TC1 = case D2_Q12a
            when 0 then 1
            when 1 then 2
            when 2 then 3
            when 3 then 3
            when 4 then 3
            when 5 then 4
            when 6 then 4
            when 7 then 7
            when 8 then 5
            when 9 then 5
            when 10 then 5
            when 11 then 5
            when 12 then 6
            when 13 then 6
            when 14 then 10
            when 15 then 8
            when 16 then 8
            when 17 then 9
            when 18 then 9
            when 19 then 11
            when 20 then 11
            when 21 then 11
            when 22 then 12
            when 23 then 12
            when 24 then 12
            when 25 then 13
            when 26 then 13
            when 27 then 13
            when 28 then 14
            when 29 then 12
            when 30 then 13
            else D2_Q12a
            end
/*
```

F2_Q01a_T

Variable Label

As part of job, read or use directions or instructions (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "At least once a week"
2   "Less than once a week "
3   "Rarely"
4   "Never"
.   Not administered
.V   Valid skip
.D   Don't know/refused

Reference variables

F2_Q01a

SQL code

```
*/
set F2_Q01a_T = case
   when F2_Q01a = 1 then 4
   when F2_Q01a = 2 then 3
   when F2_Q01a = 3 then 2
   when F2_Q01a = 4 then 1
   when F2_Q01a = 5 then 1
   when F2_Q01a in (-22, -33) then -33
   else F2_Q01a
   end
/*
```

F2_Q01b_T

Variable Label

As part of job, read or use letters, memos, e-mails (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "At least once a week"
2   "Less than once a week "
3   "Rarely"
4   "Never"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables

F2_Q01b

SQL code

```
*/
set F2_Q01b_T = case
   when F2_Q01b = 1 then 4
   when F2_Q01b = 2 then 3
   when F2_Q01b = 3 then 2
   when F2_Q01b = 4 then 1
   when F2_Q01b = 5 then 1
   when F2_Q01b in (-22, -33) then -33
   else F2_Q01b
   end
/*
```

F2_Q01c_T

Variable Label

As part of job, read or use reports, articles, magazines, journals (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely"
4   "Never"

.   Not administered

.V   Valid skip
.N   Not stated or inferred

Reference variables

F2_Q01b

SQL code

```
*/
set F2_Q01c_T = case
   when F2_Q01c = 1 then 4
   when F2_Q01c = 2 then 3
   when F2_Q01c = 3 then 2
   when F2_Q01c = 4 then 1
   when F2_Q01c = 5 then 1
   when F2_Q01c in (-22, -33) then -33
   else F2_Q01c
   end
/*
```

F2_Q01e_T

Variable Label

As part of job, read or use manuals, reference books, catalogues (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely"
4   "Never"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables

F2_Q01e

SQL code

```
*/
set F2_Q01e_T = case
   when F2_Q01e = 1 then 4
   when F2_Q01e = 2 then 3
   when F2_Q01e = 3 then 2
   when F2_Q01e = 4 then 1
   when F2_Q01e = 5 then 1
   when F2_Q01e in (-22, -33) then -33
   else F2_Q01e
   end
/*
```

F2_Q01f_T

Variable Label

As part of job, read or use bills, invoices, spreadsheets, budget tables (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely"
4   "Never"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

```
*/
set F2_Q01f_T = case
    when F2_Q01f = 1 then 4
    when F2_Q01f = 2 then 3
    when F2_Q01f = 3 then 2
    when F2_Q01f = 4 then 1
    when F2_Q01f = 5 then 1
    when F2_Q01f in (-22, -33) then -33
    else F2_Q01f
    end
/*
```

F2_Q01a_T1

Variable Label

As part of job, read or use directions or instructions - levels collapsed (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1 "At least once a week"

2 "Less than once a week "

3 "Rarely or never"

. Not administered

.V Valid skip

.N Not stated or inferred

```
*/
set F2_Q01a_T1 = case
    when F2_Q01a = 1 then 3
    when F2_Q01a = 2 then 3
    when F2_Q01a = 3 then 2
    when F2_Q01a = 4 then 1
    when F2_Q01a = 5 then 1
    when F2_Q01a in (-22, -33) then -33
    else F2_Q01a
    end
/*
```

F2_Q01b_T1

Variable Label

As part of job, read or use letters, memos, e-mails - levels collapsed (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely or never"

.   Not administered

.V   Valid skip

.N   Not stated or inferred

Reference variables

F2_Q01b

SQL code

```
*/
set F2_Q01b_T1 = case
   when F2_Q01b = 1 then 3
   when F2_Q01b = 2 then 3
   when F2_Q01b = 3 then 2
   when F2_Q01b = 4 then 1
   when F2_Q01b = 5 then 1
   when F2_Q01b in (-22, -33) then -33
   else F2_Q01b
   end
/*
```

F2_Q01c_T1

Variable Label

As part of job, read or use reports, articles, magazines, journals - levels collapsed (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely or never"

.   Not administered

.V   Valid skip

.N   Not stated or inferred

Reference variables

F2_Q01c

SQL code

```
*/
```

```
set F2_Q01c_T1 = case
   when F2_Q01c = 1 then 3
   when F2_Q01c = 2 then 3
   when F2_Q01c = 3 then 2
   when F2_Q01c = 4 then 1
   when F2_Q01c = 5 then 1
   when F2_Q01c in (-22, -33) then -33
   else F2_Q01c
   end
/*
```

F2_Q01e_T1

Variable Label

As part of job, read or use manuals, reference books, catalogues - levels collapsed (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1   "At least once a week"
2   "Less than once a week "
3   "Rarely or never"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables

F2_Q01c

SQL code

```
*/
set F2_Q01e_T1 = case
   when F2_Q01e = 1 then 3
   when F2_Q01e = 2 then 3
   when F2_Q01e = 3 then 2
   when F2_Q01e = 4 then 1
   when F2_Q01e = 5 then 1
   when F2_Q01e in (-22, -33) then -33
   else F2_Q01e
   end
/*
```

F2_Q01f_T1

Variable Label

As part of job, read or use bills, invoices, spreadsheets, budget tables - levels collapsed (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1 "At least once a week"

2 "Less than once a week"

3 "Rarely or never"

. Not administered

.V Valid skip

.N Not stated or inferred

Reference variables

F2_Q01c

SQL code

```
*/
set F2_Q01f_T1 = case
   when F2_Q01f = 1 then 3
   when F2_Q01f = 2 then 3
   when F2_Q01f = 3 then 2
   when F2_Q01f = 4 then 1
   when F2_Q01f = 5 then 1
   when F2_Q01f in (-22, -33) then -33
   else F2_Q01f
   end
/*
```

G2_Q01b_T

Variable Label

In daily life, read or use letters, notes, e-mails (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)

1 "At least once a week"

2 "Less than once a week but at least once"

3 "Rarely"

4 "Never"

. Not administered

.V Valid skip

.N Not stated or inferred

Reference variables

G2_Q01b

SQL code

```
*/
set G2_Q01b_T = case
   when G2_Q01b = 1 then 4
   when G2_Q01b = 2 then 3
```

```
    when G2_Q01b = 3 then 2
    when G2_Q01b = 4 then 1
    when G2_Q01b = 5 then 1
    else G2_Q01b
    end
/*
```

G2_Q01c_T

Variable Label

In daily life, read or use newspapers, magazines, articles (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "At least once a week"
2   "Less than once a week but at least once"
3   "Rarely"
4   "Never"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables

G2_Q01b

SQL code

```
*/
set G2_Q01c_T = case
    when G2_Q01c = 1 then 4
    when G2_Q01c = 2 then 3
    when G2_Q01c = 3 then 2
    when G2_Q01c = 4 then 1
    when G2_Q01c = 5 then 1
    else G2_Q01c
    end
/*
```

G2_Q01d_T

Variable Label

In daily life, read or use books (fiction or nonfiction; not for job or school) (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "At least once a week"
2   "Less than once a week but at least once"
3   "Rarely"
4   "Never"

. Not administered

.V Valid skip

.N Not stated or inferred

Reference variables
G2_Q01d

SQL code
```
*/
set G2_Q01d_T = case
   when G2_Q01d = 1 then 4
   when G2_Q01d = 2 then 3
   when G2_Q01d = 3 then 2
   when G2_Q01d = 4 then 1
   when G2_Q01d = 5 then 1
   else G2_Q01d
   end
/*
```

I2_Q03_T

Variable Label
General health (Trend-IALS/ALL)

Value Labels
Scale: ordinal (categorical)
1   "Excellent"
2   "Very good"
3   "Good"
4   "Fair"
5   "Poor"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables
I2_Q03

SQL code

```
*/
set I2_Q03_T = I2_Q03
/*
```

J2_Q01_T

Variable Label

Number living in household (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "One person in the household"
2   "Two persons in the household"
3   "Three persons in the household"
4   "Four persons in the household"
5   "Five persons in the household"
6   "Six persons in the household"
7   "Seven or more persons in the household"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables

J2_Q01

SQL code

```
*/
set J2_Q01_T = case
   when J2_Q01 in (-22, -33) then -33
   else J2_Q01
   end
/*
```

J2_Q01_T1

Variable Label

Number living in household (from 1 to 7) (Trend-IALS/ALL)

Value Labels

Scale: ordinal (categorical)
1   "One person in the household"
2   "Two persons in the household"
3   "Three persons in the household"
4   "Four persons in the household"
5   "Five persons in the household"
6   "Six persons in the household"
7   "Seven or more persons in the household"
.   Not administered
.V   Valid skip
.N   Not stated or inferred

Reference variables
J2_Q01

SQL code
```
*/
set J2_Q01_T1 = case
    when J2_Q01 between 8 and 95 then 7
    when J2_Q01 = -66 then -66
    when J2_Q01 in (-22, -33) then -33
    when J2_Q01 = -99 then -99
    else J2_Q01
    end
/*
```

Reference variables
J2_Q01

SQL code
```
*/
```