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# DV’s Proposed for public database AND DATA EXPLORER

## Background variables

### YRSQUAL

#### Variable Label

 Highest level of education obtained imputed into years of education

#### Value Labels

 Scale: continuous

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### YRSGET

#### Variable Label

 Imputed years of formal education needed to get the job (self-reported)

#### Value Labels

 Scale: continuous

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### VET

#### Variable Label

 Respondent's highest level of education obtained is vocationally oriented (ISCED3 and 4 only)

#### Value Labels

 Scale: binary (categorical)

 0 “False”

 1 “True”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### CTRYQUAL

#### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 CNT\_H

#### SAS code

/\* CTRYQUAL = CNT\_H; \*/

 if CNT\_H in ( 12, 48, 262, 818, 368, 400, 414, 422, 434, 478, 504, 275, 512, 634, 682, 736, 760, 788, 784, 887 )

 then CTRYQUAL = 1; /\*“Arab States”\*/

 if CNT\_H in ( 4, 50, 64, 356, 364, 462, 524, 586, 144 )

 then CTRYQUAL = 2; /\*“South and West Asia”\*/

 if 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, 558, 591, 600, 604, 659, 662, 670, 740, 780, 796, 858, 862,

 630, 474 )

 then CTRYQUAL = 3; /\*“Latin America and the Caribbean”\*/

 if 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 CTRYQUAL = 4; /\*“Sub-Saharan Africa”\*/

 if 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 CTRYQUAL = 5; /\*“East Asia and the Pacific (poorer countries)\*/

 if CNT\_H in ( 51, 31, 268, 398, 417, 496, 762, 795, 860 )

 then CTRYQUAL = 6; /\*“Central Asia”\*/

 if CNT\_H in ( 36, 392, 554, 410, 702, 540 )

 then CTRYQUAL = 7; /\*“East Asia and the Pacific (richer countries)” \*/

 if 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 CTRYQUAL = 8; /\*“Central and Eastern Europe”\*/

 if 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 CTRYQUAL = 9; /\*“North America and Western Europe”\*/

 if CNT\_H in (258, 312, 999)

 then CTRYQUAL = .N;

 if Disp\_BQ = . then CTRYQUAL = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 CNT\_BRTH

#### SAS code

\*/

 IF CNT\_BRTH <= .Z THEN BIRTHRGN = CNT\_BRTH;

 if CNT\_BRTH in ( 12, 48, 262, 818, 368, 400, 414, 422, 434, 478, 504, 275, 512, 634, 682, 736, 760, 788, 784, 887,

 732 )

 then BIRTHRGN = 1; /\* “Arab States” \*/

 if CNT\_BRTH in ( 4, 50, 64, 356, 364, 462, 524, 586, 144 )

 then BIRTHRGN = 2; /\* “South and West Asia” \*/

 if 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, 558, 591, 600, 604, 659, 662, 670, 740, 780, 796, 858, 862,

 630, 654, 474 )

 then BIRTHRGN = 3; /\* “Latin America and the Caribbean” \*/

 if 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 BIRTHRGN = 4; /\* “Sub-Saharan Africa” \*/

 if 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 BIRTHRGN = 5; /\* “East Asia and the Pacific (poorer countries)” \*/

 if CNT\_BRTH in ( 51, 31, 268, 398, 417, 496, 762, 795, 860 )

 then BIRTHRGN = 6; /\* “Central Asia” \*/

 if CNT\_BRTH in ( 36, 392, 554, 410, 702, 540 )

 then BIRTHRGN = 7; /\* “East Asia and the Pacific (richer countries)” \*/

 if 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 BIRTHRGN = 8; /\* “Central and Eastern Europe” \*/

 if 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 BIRTHRGN = 9; /\* “North America and Western Europe” \*/

 if CNT\_BRTH in ( 254, 258, 312, 638 )

 then BIRTHRGN = .N;

 if CNT\_BRTH = . then BIRTHRGN = .N;

 if Disp\_BQ = . then BIRTHRGN = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_L1

#### SAS code

\*/

 FIRLGRGN = LNG\_L1;

 if LNG\_L1 in ( "ara", "kab",

 "akk", "ber", "din", "egy", "ssa", "syr" )

 then FIRLGRGN = 1; /\* “Arab States” \*/

 if 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" )

 then FIRLGRGN = 2; /\* “South and West Asia” \*/

 if LNG\_L1 in ( "grn", "que",

 "car", "cpe", "cpf", "cpp", "crp", "hat", "pap" )

 then FIRLGRGN = 3; /\* “Latin America and the Caribbean” \*/

 if 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" )

 then FIRLGRGN = 4; /\* “Sub-Saharan Africa” \*/

 if 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" )

 then FIRLGRGN = 5; /\* “East Asia and the Pacific (poorer countries)” \*/

 if LNG\_L1 in ( "hye", "aze", "kat", "kaz", "mon", "tuk", "uzb",

 "abk" )

 then FIRLGRGN = 6; /\* “Central Asia” \*/

 if LNG\_L1 in ( "jpn", "kor",

 "aus" )

 then FIRLGRGN = 7; /\* “East Asia and the Pacific (richer countries)” \*/

 if 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" )

 then FIRLGRGN = 8; /\* “Central and Eastern Europe” \*/

 if 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" )

 then FIRLGRGN = 9; /\* “North America and Western Europe” \*/

 if LNG\_L1 in ("afa", "arc", "ine", "mis", "mul", "sem", "sgn", "und", "yid", "zxx")

 then FIRLGRGN = .N; /\* Those should receive code "." according to Excel documentation\*/

 if LNG\_L1 = "" then FIRLGRGN = .N;

 if LNG\_L1 = "996" then FIRLGRGN = .V;

 if LNG\_L1 = "997" then FIRLGRGN = .D;

 if LNG\_L1 = "998" then FIRLGRGN = .R;

 if LNG\_L1 = "999" then FIRLGRGN = .N;

 if Disp\_BQ = . then FIRLGRGN = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_L2

#### SAS code

 \*/

 /\* SECLGRGN = LNG\_L2; \*/

 if LNG\_L2 in ( "ara", "kab",

 "akk", "ber", "cop", "din", "nub", "syr" )

 then SECLGRGN = 1; /\* “Arab States” \*/

 if 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" )

 then SECLGRGN = 2; /\* “South and West Asia” \*/

 if LNG\_L2 in ( "grn", "que", "aym", "cpf", "cpe", "crp", "pap" )

 then SECLGRGN = 3; /\* “Latin America and the Caribbean” \*/

 if LNG\_L2 in ( "aar", "afr", "aka", "amh", "bas", "bem", "luo", "ewe", "ful", "lug", "hau", "ibo", "kam", "kau", "kin", "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" )

 then SECLGRGN = 4; /\* “Sub-Saharan Africa” \*/

 if 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", "phi", "tai", "zha" )

 then SECLGRGN = 5; /\* “East Asia and the Pacific (poorer countries)” \*/

 if LNG\_L2 in ( "hye", "aze", "kat", "kaz", "mon", "tuk", "uzb" )

 then SECLGRGN = 6; /\* “Central Asia”\*/

 if LNG\_L2 in ( "jpn", "kor")

 then SECLGRGN = 7; /\* “East Asia and the Pacific (richer countries)” \*/

 if 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" )

 then SECLGRGN = 8; /\* “Central and Eastern Europe” \*/

 if 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" )

 then SECLGRGN = 9; /\* “North America and Western Europe” \*/

 if LNG\_L2 in ( "arc", "epo", "ido", "ine", "mul", "san", "sgn", "und", "yid", "zxx" )

 then SECLGRGN = .N; /\* Those should receive code "." according to Excel documentation\*/

 if LNG\_L2 in ( "dak", "gem", "kal", "moh", "sal", "wak" )

 then SECLGRGN = .N; /\* Those should receive code "0" according to Excel documentation - a code that does not exist.\*/

 if LNG\_L2 = "" then SECLGRGN = .N;

 if LNG\_L2 = "996" then SECLGRGN = .V;

 if LNG\_L2 = "997" then SECLGRGN = .D;

 if LNG\_L2 = "998" then SECLGRGN = .R;

 if LNG\_L2 = "999" then SECLGRGN = .N;

 if Disp\_BQ = . then SECLGRGN = .;

/\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_HOME

#### SAS code

\*/

 HOMLGRGN = LNG\_HOME;

 if LNG\_HOME in ( "ara", "kab",

 "akk", "ber", "din", "ssa", "syr" )

 then HOMLGRGN = 1; /\* “Arab States” \*/

 if 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" )

 then HOMLGRGN = 2; /\* “South and West Asia” \*/

 if LNG\_HOME in ( "grn", "que",

 "cpe", "cpf", "cpp", "crp", "hat", "pap" )

 then HOMLGRGN = 3; /\* “Latin America and the Caribbean” \*/

 if 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" )

 then HOMLGRGN = 4; /\* “Sub-Saharan Africa” \*/

 if 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", "phi", "sit", "tai", "tet", "ton", "uig", "war", "zha")

 then HOMLGRGN = 5; /\* “East Asia and the Pacific (poorer countries)” \*/

 if LNG\_HOME in ( "hye", "aze", "kat", "kaz", "mon", "tuk", "uzb")

 then HOMLGRGN = 6; /\* “Central Asia” \*/

 if LNG\_HOME in ( "jpn", "kor")

 then HOMLGRGN = 7; /\* “East Asia and the Pacific (richer countries)” \*/

 if 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")

 then HOMLGRGN = 8; /\* “Central and Eastern Europe” \*/

 if 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" )

 then HOMLGRGN = 9; /\* “North America and Western Europe” \*/

 if LNG\_HOME in ( "afa", "arc", "epo", "ine", "mul", "sem", "sgn", "und", "yid", "zxx" )

 then HOMLGRGN = .N; /\* Those should receive code "." according to Excel documentation\*/

 if LNG\_HOME = "pau" then HOMLGRGN = .N; /\* This one should receive code "0" according to Excel documentation - a code that does not exist.\*/

 if LNG\_HOME = "" then HOMLGRGN = .N;

 if LNG\_HOME = "996" then HOMLGRGN = .V;

 if LNG\_HOME = "997" then HOMLGRGN = .D;

 if LNG\_HOME = "998" then HOMLGRGN = .R;

 if LNG\_HOME = "999" then HOMLGRGN = .N;

 if Disp\_BQ = . then HOMLGRGN = .;

/\*

### 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”

.N “Not stated or inferred”

#### Reference variables

 BORNLANG

#### SAS code

\*/

 if BORNLANG = 4 then FORBORNLANG = 1;

 else if BORNLANG in (1,2,3) then FORBORNLANG = 0;

 else FORBORNLANG = .N;

 if Disp\_BQ = . then FORBORNLANG = .;

### PARED

#### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 J\_Q06b and J\_Q07b

#### SAS code

\*/

 FATHERED = J\_Q07b;

 MOTHERED = J\_Q06b;

 if FATHERED = .D or MOTHERED = .D then PARED = .D;

 else if FATHERED = .R or MOTHERED = .R then PARED = .R;

 else if FATHERED = .N or MOTHERED = .N then PARED = .N;

 else if FATHERED <= .Z and MOTHERED <= .Z then PARED = .N;

 else PARED = MAX(MOTHERED,FATHERED);

 if Disp\_BQ = . then PARED = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_CI, LNG\_L1, LNG\_L2

#### SAS code

\*/

 if (LNG\_L1 ^in ( "", "996", "997", "998", "999")and LNG\_CI = LNG\_L1) or (LNG\_L2 ^in ( "", "996", "997", "998", "999")and LNG\_CI= LNG\_L2)

 then NATIVELANG = 1;

 else if (LNG\_L1 ^in ( "", "996", "997", "998", "999")and LNG\_CI ^= LNG\_L1) and LNG\_CI ^= LNG\_L2 then NATIVELANG = 0;

 else if (LNG\_L2 ^in ( "", "996", "997", "998", "999")and LNG\_CI ^= LNG\_L2) and LNG\_CI ^= LNG\_L1 then NATIVELANG = 0;

 else if LNG\_L1 in ( "", "996", "997", "998", "999") and LNG\_L2 = "997" then NATIVELANG = .D;

 else if LNG\_L1 in ( "", "996", "997", "998", "999") and LNG\_L2 = "998" then NATIVELANG = .R;

 else if LNG\_L2 in ( "", "996", "997", "998", "999") and LNG\_L1 = "997" then NATIVELANG = .D;

 else if LNG\_L2 in ( "", "996", "997", "998", "999") and LNG\_L1 = "998" then NATIVELANG = .R;

 else NATIVELANG = .N;

 if Disp\_BQ = . then NATIVELANG = .;

 /\*

### 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”

4 “Foreign-born and foreign-language”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 J\_Q04a, NATIVELANG

#### SAS code

\*/

 if J\_Q04a = 1 and NATIVELANG = 1 then BORNLANG = 1;

 else if J\_Q04a = 1 and NATIVELANG = 0 then BORNLANG = 2;

 else if J\_Q04a = 2 and NATIVELANG = 1 then BORNLANG = 3;

 else if J\_Q04a = 2 and NATIVELANG = 0 then BORNLANG = 4;

 else if J\_Q04a = .D or NATIVELANG = .D then BORNLANG = .D;

 else if J\_Q04a = .R or NATIVELANG = .R then BORNLANG = .R;

 else BORNLANG = .N;

 if Disp\_BQ = . then BORNLANG = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_CI, LNG\_L1, LNG\_L2

#### SAS code

\*/

 if LNG\_L1 ^in ("","996","997","998","999") and LNG\_L2 ^in ("","996","997","998","999") and LNG\_L1 ^= LNG\_L2 and (LNG\_CI = LNG\_L1 OR LNG\_CI = LNG\_L2)

 then NATBILANG = 1; /\* Two languages 'first learned' and one of them ist Test language\*/

 else if LNG\_L1 ^in ("","996","997","998","999") then NATBILANG = 0; /\* Monolingual\*/

 else if LNG\_L2 ^in ("","996","997","998","999") then NATBILANG = 0; /\* Monolingual\*/

 else if LNG\_L1 ^in ("","996","997","998","999") and LNG\_L2 ^in ("","996","997","998","999") then NATBILANG = 0;/\* bilingual not including test language\*/

 else if LNG\_L1 = "997" and LNG\_L2 in ("","996","997","998","999") then NATBILANG = .D;

 else if LNG\_L2 = "997" and LNG\_L1 in ("","996","997","998","999") then NATBILANG = .D;

 else if LNG\_L1 = "998" and LNG\_L2 in ("","996","997","998","999") then NATBILANG = .R;

 else if LNG\_L2 = "998" and LNG\_L1 in ("","996","997","998","999") then NATBILANG = .R;

 else NATBILANG = .N;

 if Disp\_BQ = . then NATBILANG = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_CI, LNG\_L1, LNG\_L2

#### SAS code

\*/

                if LNG\_L1 ^in ("","996","997","998","999") and LNG\_L2 ^in ("","996","997","998","999") and LNG\_L1 ^= LNG\_L2 and LNG\_CI ^= LNG\_L1 and LNG\_CI ^= LNG\_L2
                then FORBILANG = 1; /\* Two languages 'first learned' but none of them is Test language\*/
    else if LNG\_L1 ^in ("","996","997","998","999") then FORBILANG = 0; /\* Monolingual\*/
    else if LNG\_L2 ^in ("","996","997","998","999") then FORBILANG = 0; /\* Monolingual\*/
    else if LNG\_L1 ^in ("","996","997","998","999") and LNG\_L2 ^in ("","996","997","998","999") then FORBILANG = 0;/\* Bilingual including test language\*/
    else if LNG\_L1 = "997" and LNG\_L2 in ("","996","997","998","999") then FORBILANG = .D;
    else if LNG\_L2 = "997" and LNG\_L1 in ("","996","997","998","999") then FORBILANG = .D;
    else if LNG\_L1 = "998" and LNG\_L2 in ("","996","997","998","999") then FORBILANG = .R;
    else if LNG\_L2 = "998" and LNG\_L1 in ("","996","997","998","999") then FORBILANG = .R;
    else FORBILANG = .N;

    if Disp\_BQ = . then FORBILANG = .;

 /\*

### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 LNG\_HOME, LNG\_CI

#### SAS code

\*/

 if LNG\_HOME ^in ("","996","997","998","999")and LNG\_HOME = LNG\_CI then HOMLANG = 1;

 else if LNG\_HOME ^in ("","996","997","998","999")and LNG\_CI ^in ("","996","997","998","999")and LNG\_HOME ne LNG\_CI then HOMLANG = 0;

 else HOMLANG = .N;

 if LNG\_HOME = "997" then HOMLANG = .D;

 if LNG\_HOME = "998" then HOMLANG = .R;

 if Disp\_BQ = . then HOMLANG = .;

 /\*

### 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”

 .N “Not stated or inferred”

#### Reference variables

 CNTRYID

#### SAS code

\*/

 /\* CTRYRGN\*/

 if CNTRYID = 40 then CTRYRGN = 9;/\*AT\*/

 else if CNTRYID = 36 then CTRYRGN = 7;/\*AUS\*/

 else if CNTRYID = 56 then CTRYRGN = 9;/\*BE\*/

 else if CNTRYID = 124 then CTRYRGN = 9;/\*CA\*/

 else if CNTRYID = 196 then CTRYRGN = 9;/\*CY\*/

 else if CNTRYID = 203 then CTRYRGN = 8;/\*CZ\*/

 else if CNTRYID = 208 then CTRYRGN = 9;/\*DK\*/

 else if CNTRYID = 233 then CTRYRGN = 8;/\*EE\*/

 else if CNTRYID = 246 then CTRYRGN = 9;/\*FI\*/

 else if CNTRYID = 250 then CTRYRGN = 9;/\*FR\*/

 else if CNTRYID = 276 then CTRYRGN = 9;/\*DE\*/

 else if CNTRYID = 2761 then CTRYRGN = 9;/\*DE - Germany (CiLL, elderly oversample )\*/

 else if CNTRYID = 2762 then CTRYRGN = 9;/\*DE - Germany (East 26-55yo oversample)\*/

 else if CNTRYID = 372 then CTRYRGN = 9;/\*IE\*/

 else if CNTRYID = 380 then CTRYRGN = 9;/\*IT\*/

 else if CNTRYID = 392 then CTRYRGN = 7;/\*JA\*/

 else if CNTRYID = 410 then CTRYRGN = 7;/\*KO\*/

 else if CNTRYID = 528 then CTRYRGN = 9;/\*NL\*/

 else if CNTRYID = 578 then CTRYRGN = 9;/\*NO\*/

 else if CNTRYID = 616 then CTRYRGN = 8;/\*PL\*/

 else if CNTRYID = 643 then CTRYRGN = 8;/\*RU\*/

 else if CNTRYID = 703 then CTRYRGN = 8;/\*SK\*/

 else if CNTRYID = 724 then CTRYRGN = 9;/\*SP\*/

 else if CNTRYID = 752 then CTRYRGN = 9;/\*SE\*/

 else if CNTRYID = 826 then CTRYRGN = 9;/\*UK\*/

 else if CNTRYID = 840 then CTRYRGN = 9;/\*US\*/

 else CTRYRGN = .N;

 /\*

### IMPAR

#### 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”

.N “Not stated or inferred”

#### Reference variables

 J\_Q06a, J\_Q07a

#### SAS code

\*/

 if J\_Q06a = 2 and J\_Q07a = 2 then IMPAR = 1;

 else if J\_Q06a = 2 or J\_Q07a = 2 then IMPAR = 2;

 else if J\_Q06a = 1 and J\_Q07a = 1 then IMPAR = 3;

 else IMPAR = .N;

 if Disp\_BQ = . then IMPAR = .;

/\*

### IMGEN

#### 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”

.A “Non-immigrant and one foreign-born parent”

.N “Not stated or inferred”

#### Reference variables

 IMPAR, FOREIGNBORN, J\_Q04a

#### SAS code

\*/

 if J\_Q04a = 1 then FOREIGNBORN = 0;

 else if J\_Q04a = 2 then FOREIGNBORN = 1;

 else FOREIGNBORN = .N;

 \*Generation immigrants;

 if FOREIGNBORN = 1 and IMPAR = 1 then IMGEN = 1;

 else if FOREIGNBORN = 1 and IMPAR = 2 then IMGEN = 1;

 else if FOREIGNBORN = 0 and IMPAR = 1 then IMGEN = 2;

 else if FOREIGNBORN = 0 and IMPAR = 3 then IMGEN = 3;

 else if FOREIGNBORN = 1 and IMPAR = 3 then IMGEN = 3;

 else if FOREIGNBORN = 0 and IMPAR = 2 then IMGEN = .A;

 else IMGEN = .N;

 drop FOREIGNBORN;

 if Disp\_BQ = . then IMGEN = .;

 /\*

### IMYRS

#### Variable Label

 Years in country

#### Value Labels

 Scale: continuous

 .A “Native born”

 .N “Not stated or inferred”

#### Reference variables

 AGE\_R, J\_Q04c1, J\_Q04a

#### SAS code

\*/

 IMYRS = AGE\_R -J\_Q04c1;

 if J\_Q04a = 1 then IMYRS = .A;

 else if IMYRS > 65 then IMYRS = .N;

 else if J\_Q04c1 = . or J\_Q04c1 < 0 or IMYRS < 0 then IMYRS = .N;

 /\*

### 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 “more than 15 years”

 .V “Valid skip”

 .D “Don't know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 IMYRS

#### SAS code

IMYRS\_C = IMYRS;

/\* ISSUE: Cases where IMYRS = 0 were not included in requirements (If Age of immigration equals age of person). \*/

/\* if 1 <= IMYRS <= 5 then IMYRS\_C = 1;\*/

 if 0 <= IMYRS <= 5 then IMYRS\_C = 1;

else if 6 <= IMYRS <= 10 then IMYRS\_C = 2;

else if 11 <= IMYRS <= 15 then IMYRS\_C = 3;

else if 16 <= IMYRS <= 95 then IMYRS\_C = 4;

else if DISP\_BQ > .Z and IMYRS = . then IMYRS\_C = .N; /\*for break-offs\*/

if IMYRS = .S then IMYRS\_C = .N; /\*for cases where the international variable was suppressed\*/

### 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”

 .N “Not stated or inferred”

#### Reference variables

 J\_Q04a, IMYRS

#### SAS code

\*/

 if J\_Q04a = 1 then IMYRCAT = 3;

 else if IMYRS < 0 then IMYRCAT = .N;

 else if IMYRS < 6 then IMYRCAT = 1;

 else if IMYRS > 5 then IMYRCAT = 2;

 /\*

### 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”

 .N “Not stated or inferred”

#### Reference variables

 AGE\_R

#### SAS code

\*/

 if AGE\_R >= 16 and AGE\_R <= 19 then AGEG5LFS = 1;

 else if AGE\_R > 19 and AGE\_R <= 24 then AGEG5LFS = 2;

 else if AGE\_R > 24 and AGE\_R <= 29 then AGEG5LFS = 3;

 else if AGE\_R > 29 and AGE\_R <= 34 then AGEG5LFS = 4;

 else if AGE\_R > 34 and AGE\_R <= 39 then AGEG5LFS = 5;

 else if AGE\_R > 39 and AGE\_R <= 44 then AGEG5LFS = 6;

 else if AGE\_R > 44 and AGE\_R <= 49 then AGEG5LFS = 7;

 else if AGE\_R > 49 and AGE\_R <= 54 then AGEG5LFS = 8;

 else if AGE\_R > 54 and AGE\_R <= 59 then AGEG5LFS = 9;

 else if AGE\_R > 59 and AGE\_R <= 65 then AGEG5LFS = 10;

 if AGE\_R <= .Z then AGEG5LFS = .N;

 if AGE\_R > .Z and AGE\_R < 16 then AGEG5LFS = .A;

 if AGE\_R > 65 then AGEG5LFS = .B;

/\*

### AGEG10LFS

#### Variable Label

 Age in 10 year bands

#### Value Labels

 Scale: ordinal (categorical)

 1 “24 or less”

 2 “25-34”

 3 “35-44”

 4 “45-54”

 5 “55 plus”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 AGEG5LFS

#### SAS code

AGEG10LFS = AGEG5LFS;

 if AGEG5LFS = 1 then AGEG10LFS = 1;

else if AGEG5LFS = 2 then AGEG10LFS = 1;

else if AGEG5LFS = 3 then AGEG10LFS = 2;

else if AGEG5LFS = 4 then AGEG10LFS = 2;

else if AGEG5LFS = 5 then AGEG10LFS = 3;

else if AGEG5LFS = 6 then AGEG10LFS = 3;

else if AGEG5LFS = 7 then AGEG10LFS = 4;

else if AGEG5LFS = 8 then AGEG10LFS = 4;

else if AGEG5LFS = 9 then AGEG10LFS = 5;

else if AGEG5LFS = 10 then AGEG10LFS = 5;

else if DISP\_BQ > .Z and AGEG5LFS = . then AGEG10LFS = .N; /\*for break-offs\*/

if AGEG5LFS = .S then AGEG10LFS = .N; /\*for cases where the international variable was suppressed\*/

## Education/training variables

### EDCAT8

#### Variable Label

 Highest level of formal education obtained (8 categories)

#### 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)”

9 “Tertiary - bachelor/master/research degree (ISCED 5A/6)”

.N “Not stated or inferred”

#### Reference variables

 B\_Q01a, B\_Q01a3

#### SAS code

\*/

 if B\_Q01a = . and B\_Q01a3 = . then EDCAT8 = .N;

 else if B\_Q01a in (1,2) then EDCAT8 = 1;

 else if B\_Q01a in (3,4) then EDCAT8 = 2;

 else if B\_Q01a in (5,6,7) then EDCAT8 = 3;

 else if B\_Q01a in (8,9,10) then EDCAT8 = 4;

 else if B\_Q01a = 11 then EDCAT8 = 5;

 else if B\_Q01a = 12 then EDCAT8 = 6;

 else if B\_Q01a = 13 then EDCAT8 = 7;

 else if B\_Q01a = 14 then EDCAT8 = 8;

 else if B\_Q01a = 16 then EDCAT8 = 9; /\* new cat add for GBR only\*/

 else if B\_Q01a = 15 or B\_Q01a = . then do;

 if B\_Q01a3 in (1,2) then EDCAT8 = 1;

 else if B\_Q01a3 in (3,4) then EDCAT8 = 2;

 else if B\_Q01a3 in (5,6,7) then EDCAT8 = 3;

 else if B\_Q01a3 in (8,9,10) then EDCAT8 = 4;

 else if B\_Q01a3 = 11 then EDCAT8 = 5;

 else if B\_Q01a3 = 12 then EDCAT8 = 6;

 else if B\_Q01a3 = 13 then EDCAT8 = 7;

 else if B\_Q01a3 = 14 then EDCAT8 = 8;

 else if B\_Q01a3 = 16 then EDCAT8 = 9; /\* new cat add for GBR only \*/

 else EDCAT8 = .N;

 end;

 else EDCAT8 = .N;

 if Disp\_BQ = . then EDCAT8 = .;

 /\*

### EDCAT7

#### Variable Label

 Highest level of formal education obtained (7 categories)

#### 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)”

8 “Tertiary - bachelor/master/research degree (ISCED 5A/6)”

.N “Not stated or inferred”

#### Reference variables

 EDCAT8

#### SAS code

\*/

 EDCAT7 = EDCAT8;

 select (EDCAT8);

 when(1) EDCAT7 = 1;

 when(2) EDCAT7 = 2;

 when(3) EDCAT7 = 3;

 when(4) EDCAT7 = 4;

 when(5) EDCAT7 = 5;

 when(6) EDCAT7 = 6;

 when(7) EDCAT7 = 7;

 when(8) EDCAT7 = 7;

 when(9) EDCAT7 = 8;

 otherwise;

 end;

 if Disp\_BQ = . then EDCAT7 = .;

 /\*

### EDCAT6

#### Variable Label

 Highest level of formal education obtained (6 categories)

#### Value Labels

 Scale: ordinal (categorical)

1 “Lower secondary or less (ISCED 1,2, 3C short or less)”

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)”

7 “Tertiary - bachelor/master/research degree (ISCED 5A/6)”

.N “Not stated or inferred”

#### Reference variables

 EDCAT7

#### SAS code

\*/

 EDCAT6 = EDCAT7;

 select (EDCAT7);

 when(1) EDCAT6 = 1;

 when(2) EDCAT6 = 1;

 when(3) EDCAT6 = 2;

 when(4) EDCAT6 = 3;

 when(5) EDCAT6 = 4;

 when(6) EDCAT6 = 5;

 when(7) EDCAT6 = 6;

 when(8) EDCAT6 = 7;

 otherwise;

 end;

 if Disp\_BQ = . then EDCAT6 = .;

 /\*

### LEAVER1624

#### 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”

.A “Adults older than 24”

 .U “Unknown”

#### Reference variables

 AGE\_R, EDCAT8, B\_Q02a

#### SAS code

\*/

if 16 <= AGE\_R <= 24 and EDCAT8 in (1, 2) and B\_Q02a ne 1 then LEAVER1624 = 1;

 else if 16 <= AGE\_R <= 24 and (EDCAT8 in (3, 4, 5, 6, 7, 8, 9) or B\_Q02a = 1) then LEAVER1624 = 0;

 else if AGE\_R >= 25 then LEAVER1624 = .A;

 else LEAVER1624 = .U;

 if Disp\_BQ = . then LEAVER1624 = .;

 /\*

### LEAVEDU

#### Variable Label

 Respondent’s age when leaving formal education

#### Value Labels

 Scale: continuous

 .A “Still in education”

 .N “Not stated or inferred”

#### Reference variables

 B\_Q02a, B\_Q03a, B\_Q01c1, B\_Q01c2, A\_Q01a, B\_Q03c1, B\_Q03c2

#### SAS code

\*/

 if B\_Q02a = 2 and B\_Q03a = 2 and B\_Q01c1 not in( .V, .D, .R, .N, .) then LEAVEDU = B\_Q01c1;

 else if B\_Q02a = 2 and B\_Q03a = 2 and B\_Q01c2 not in( .V, .D, .R, .N, .) and A\_Q01a not in( .V, .D, .R, .N, .) then LEAVEDU = B\_Q01c2 - A\_Q01a;

 else if B\_Q02a = 2 and B\_Q03a = 1 and max( B\_Q01c1, B\_Q03c1) not in ( .V, .D, .R, .N, .) then LEAVEDU = max( B\_Q01c1, B\_Q03c1);

 else if B\_Q02a = 2 and B\_Q03a = 1 and max((B\_Q01c2 - A\_Q01a), (B\_Q03c2 - A\_Q01a)) not in( .V, .D, .R, .N, .) then LEAVEDU = max((B\_Q01c2 - A\_Q01a), (B\_Q03c2 - A\_Q01a));

 else if B\_Q02a = 1 then LEAVEDU = .A;

 else LEAVEDU = .N;

 if Disp\_BQ = . then LEAVEDU = .;

 /\*

### FE12

#### 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”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 B\_D01d, B\_Q02a, B\_D03d, B\_Q04a

#### SAS code

\*/

 FE12 = B\_Q04a;

 if (B\_D01d <= 12 and B\_D01d not in( .V, .D, .R, .N, .)) or (B\_D03d <= 12 and B\_D03d not in( .V, .D, .R, .N, .)) or B\_Q02a = 1 or B\_Q04a = 1 then FE12 = 1;

 else if B\_Q04a = 2 then FE12 = 0;

 if B\_Q04a = . then FE12 = .N;

 if Disp\_BQ = . then FE12 = .;

 /\*

### AETPOP

#### 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”

 .N “Not stated or inferred”

#### Reference variables

 AGE\_R, FE12, EDCAT8, B\_Q02a, B\_Q02b, B\_Q03a, B\_Q03b, B\_Q05a

#### SAS code

AETPOP = .N;

 if 16 <= AGE\_R <= 19 and FE12=1 and FE12 not in( .V, .D, .R, .N, .) and EDCAT8 < 3 then AETPOP = 1;

else if 16 <= AGE\_R <= 19 and B\_Q02a  =  1 and B\_Q02b < 4 and B\_Q02b not in( .V, .D, .R, .N, .) then AETPOP = 1;

 else if 16 <= AGE\_R <= 19 and FE12=1 and B\_Q03a  =  1 and B\_Q03b < 4 and B\_Q03b not in( .V, .D, .R, .N, .) then AETPOP = 1;

 else if 16 <= AGE\_R <= 19 and FE12    =  1 and B\_Q05a < 4 and B\_Q05a not in( .V, .D, .R, .N, .) then AETPOP = 1;

else if 16 <= AGE\_R <= 24 and FE12=1 and FE12 not in( .V, .D, .R, .N, .) and EDCAT8 < 4 then AETPOP = 1;

 else if 16 <= AGE\_R <= 24 and B\_Q02a  =  1 and B\_Q02b < 7 and B\_Q02b not in( .V, .D, .R, .N, .) then AETPOP = 1;

else if 16 <= AGE\_R <= 24 and FE12=1 and B\_Q03a  =  1 and B\_Q03b < 7 and B\_Q03b not in( .V, .D, .R, .N, .) then AETPOP = 1;

else if 16 <= AGE\_R <= 24 and FE12    =  1 and B\_Q05a < 7 and B\_Q05a not in( .V, .D, .R, .N, .) then AETPOP = 1;

 else if AGE\_R > 24 and FE12 = 1        then AETPOP = 1;

else if FE12 in( 0, .V, .D, .R, .N, .) then AETPOP = 1;

      if 16 <= AGE\_R <= 19 and FE12=1 and FE12 not in( .V, .D, .R, .N, .) and EDCAT8 >= 3 then AETPOP = 0;

 else if 16 <= AGE\_R <= 19 and B\_Q02a  =  1 and B\_Q02b >= 4 and B\_Q02b not in( .V, .D, .R, .N, .) then AETPOP = 0;

 else if 16 <= AGE\_R <= 19 and FE12=1 and B\_Q03a  =  1 and B\_Q03b >= 4 and B\_Q03b not in( .V, .D, .R, .N, .) then AETPOP = 0;

 else if 16 <= AGE\_R <= 19 and FE12    =  1 and B\_Q05a >= 4 and B\_Q05a not in( .V, .D, .R, .N, .) then AETPOP = 0;

 else if 16 <= AGE\_R <= 24 and FE12=1 and FE12 not in( .V, .D, .R, .N, .) and EDCAT8 >= 4 then AETPOP = 0;

 else if 16 <= AGE\_R <= 24 and B\_Q02a  =  1 and B\_Q02b >= 7 and B\_Q02b not in( .V, .D, .R, .N, .) then AETPOP = 0;

else if 16 <= AGE\_R <= 24 and FE12=1 and B\_Q03a  =  1 and B\_Q03b >= 7 and B\_Q03b not in( .V, .D, .R, .N, .) then AETPOP = 0;

else if 16 <= AGE\_R <= 24 and FE12    =  1 and B\_Q05a >= 7 and B\_Q05a not in( .V, .D, .R, .N, .) then AETPOP = 0;

#### Note

 This variable flags adults to be excluded from adult education and training analyses, namely adults who are considered to still be in their first formal cycle of studies. Youths aged 16 to 19 who recently completed or are still in a short duration ISCED 3C or below are included as adult learners. Similarly, youths aged 20 to 24 who recently completed or are still in ISCED 3A,B,C or below are included as adult learners.

### FAET12

#### 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”

.A “Student in regular cycle of studies”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 FE12, AETPOP

#### SAS code

\*/

 FAET12 = FE12;

 if AETPOP = 0 then FAET12 = .A; /\* "student in regular cycle" \*/

 if Disp\_BQ = . then FAET12 = .;

 /\*

### FAET12JR

#### Variable Label

Participated in formal AET for job-related reasons in 12 months preceding survey (see AETPOP)

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in formal AET for JR reasons”

1 “Participated in formal AET for JR reasons”

.A “Student in regular cycle of studies”

 .U “Unknown”

#### Reference variables

 FAET12, B\_Q05c, AETPOP

#### SAS code

 \*/

 if FAET12 = 0 or (FAET12 = 1 and B\_Q05c = 2) then FAET12JR = 0;

else if FAET12 = 1 and B\_Q05c = 1 then FAET12JR = 1;

else if AETPOP = 0 then FAET12JR = .A;

else FAET12JR = .U;

if Disp\_BQ = . then FAET12JR = .;

 /\*

### FAET12NJR

#### Variable Label

Participated in formal AET for non job-related reasons in 12 months preceding survey (see AETPOP)

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in FE for NJR reasons”

1 “Participated in FE for NJR reasons”

.A “Student in regular cycle of studies”

 .U “Unknown”

#### Reference variables

 AETPOP, FAET12, B\_Q05c

#### SAS code

\*/

 if AETPOP = 0 then FAET12NJR = .A;

else if FAET12 = 0 then FAET12NJR = 0;

else if FAET12 = 1 and B\_Q05c = 1 then FAET12NJR = 0;

else if FAET12 = 1 and B\_Q05c = 2 then FAET12NJR = 1;

else FAET12NJR = .U;

if Disp\_BQ = . then FAET12NJR = .;

 /\*

### NFE12

#### 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”

.U “Unknown”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 B\_D12h

#### SAS code

\*/

 NFE12 = B\_D12h;

 if B\_D12h in (1, 2, 4) then NFE12 = 1;

 else if B\_D12h = 3 then NFE12 = 0;

 else if B\_D12h = 5 or B\_D12h = . then NFE12 = .U;

 if Disp\_BQ = . then NFE12 = .;

 /\*

### NFE12JR

#### 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”

.U “Unknown”

#### Reference variables

 NFE12, B\_Q14a, B\_Q13, B\_Q12C, B\_D12H

#### SAS code

\*/

if NFE12 = 0 then NFE12JR = 0;

else if NFE12 = 1 and (B\_Q14a = 1 or B\_Q13 = 2) then NFE12JR = 1;

else if B\_Q12C=1 AND B\_D12H=1 then NFE12JR=1;

else if NFE12 = 1 and B\_Q14a = 2 then NFE12JR = 0;

else NFE12JR = .U;

if Disp\_BQ = . then NFE12JR = .;

 /\*

### NFE12NJR

#### 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”

.U “Unknown”

#### Reference variables

 NFE12, B\_Q14a, B\_Q13, B\_Q12C, B\_D12H

#### SAS code

\*/

if NFE12 = 0 then NFE12NJR = 0;

 else if NFE12 = 1 and (B\_Q14a= 1 or B\_Q13 = 2) then NFE12NJR = 0;

 else if B\_Q12C=1 AND B\_D12H=1 then NFE12NJR=0;

 else if NFE12 = 1 and B\_Q14a= 2 then NFE12NJR = 1;

 else NFE12NJR= .U;

 if Disp\_BQ = . then NFE12NJR = .;

 /\*

### FNFAET12

#### Variable Label

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

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in formal or non-formal AET”

1 “Participated in formal and/or non-formal AET”

.A “Students in regular cycle of studies”

 .U “Unknown”

#### Reference variables

 NFE12, FE12, AETPOP

#### SAS code

\*/

 if NFE12 = 1 or FE12 = 1 then FNFAET12 = 1;

 else if NFE12 = 0 and FE12 = 0 then FNFAET12 = 0;

 else FNFAET12 = .U;

 if AETPOP <= 0 then FNFAET12 = .A;

 if Disp\_BQ = . then FNFAET12 = .;

 /\*

### FNFE12JR

#### Variable Label

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

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in FE or NFE for JR reasons”

1 “Participated in FE or NFE for JR reasons”

 .U “Unknown”

#### Reference variables

 FE12, B\_Q05c, NFE12, B\_Q14a, B\_Q13, B\_Q12C, B\_D12H

#### SAS code

\*/

if FE12 = 1 and B\_Q05c = 1 then FNFE12JR = 1;

 else if FE12 = 1 and B\_Q05c = 2 then FNFE12JR = 0;

 else if NFE12 = 1 and (B\_Q14a= 1 or B\_Q13 = 2) then FNFE12JR = 1;

 else if B\_Q12C=1 AND B\_D12H=1 then FNFE12JR=1;

 else if NFE12 = 1 and B\_Q14a= 2 then FNFE12JR = 0;

 else if FE12 = 0 and NFE12 = 0 then FNFE12JR = 0;

 else FNFE12JR = .U;

 if Disp\_BQ = . then FNFE12JR = .;

### FNFAET12JR

#### Variable Label

 Participated in formal or non-formal AET for job-related reasons in 12 months preceding survey (see AETPOP)

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in formal or non-formal AET for JR reasons”

1 “Participated in formal or non-formal AET for JR reasons”

.A “Student in regular cycle of studies”

 .U “Unknown”

#### Reference variables

 FE12, B\_Q05c, NFE12, B\_Q14a, B\_Q13, B\_Q12C, B\_D12H, AETPOP

#### SAS code

\*/

if FE12 = 1 and B\_Q05c = 1 then FNFAET12JR = 1;

 else if FE12 = 1 and B\_Q05c = 2 then FNFAET12JR = 0;

 else if NFE12 = 1 and (B\_Q14a= 1 or B\_Q13 = 2) then FNFAET12JR = 1;

 else if B\_Q12C=1 AND B\_D12H=1 then FNFAET12JR=1;

 else if NFE12 = 1 and B\_Q14a= 2 then FNFAET12JR = 0;

 else if FE12 = 0 and NFE12 = 0 then FNFAET12JR = 0;

 else FNFAET12JR = .U;

 if AETPOP <= 0 then FNFAET12JR = .A;

 if Disp\_BQ = . then FNFAET12JR = .;

 /\*

### FNFAET12NJR

#### Variable Label

 Participated in formal or non-formal AET for non job-related reasons in 12 mon. preceding survey (see AETPOP)

#### Value Labels

 Scale: binary (categorical)

0 “Did not participate in formal or non-formal AET for non JR reasons”

1 “Participated in formal or non-formal AET for non JR reasons”

.A “Student in regular cycle of studies”

 .U “Unknown”

#### Reference variables

 FE12, B\_Q05c, NFE12, B\_Q14a, B\_Q13, B\_Q12C, B\_D12H, AETPOP

#### SAS code

\*/

if FE12 = 1 and B\_Q05c = 2 then FNFAET12NJR = 1;

 else if FE12 = 1 and B\_Q05c = 1 then FNFAET12NJR = 0;

 else if NFE12 = 1 and B\_Q14a= 2 then FNFAET12NJR = 1;

 else if NFE12 = 1 and (B\_Q14a= 1 or B\_Q13 = 2) then FNFAET12NJR = 0;

 else if B\_Q12C=1 AND B\_D12H=1 then FNFAET12NJR=0;

 else if FE12 = 0 and NFE12 = 0 then FNFAET12NJR = 0;

 else FNFAET12NJR = .U;

 if AETPOP <= 0 then FNFAET12NJR = .A;

 if Disp\_BQ = . then FNFAET12NJR = .;

/\*

### EDWORK

#### Variable Label

 Interaction between adults’ work and education status

#### Value Labels

 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)”

.U “Unknown”

#### Reference variables

 C\_D05, B\_Q02a, FE12, NFE12

#### SAS code

\*/

If C\_D05 in (.,4) Then EDWORK = .U;

 else if C\_D05 ne 1 and B\_Q02a = 1 then EDWORK = 1;

 else if C\_D05 = 1 and B\_Q02a = 1 then EDWORK = 2;

 else if C\_D05 = 1 and B\_Q02a ne 1 then EDWORK = 3;

 else if C\_D05 ne 1 and B\_Q02a ne 1 and (FE12 = 1 or NFE12 = 1) then EDWORK = 4;

 else if C\_D05 ne 1 and B\_Q02a ne 1 and (FE12 ne 1 or NFE12 ne 1) then EDWORK = 5;

 else EDWORK = .U;

### NEET

#### 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)”

.U “Unknown”

#### Reference variables

 C\_D05, FE12, NFE12

#### SAS code

\*/

If C\_D05 in (.,4) or FE12= .N or NFE12= .N Then NEET= .U;

 else if C\_D05 ne 1 and (FE12 ne 1 and NFE12 ne 1) then NEET = 1;

 else if C\_D05 = 1 or FE12 = 1 or NFE12 = 1 then NEET = 0;

 else NEET = .U;

### NFEHRSNJR

#### Variable Label

 Number of hours of participation in non-formal education for non-job-related reasons

#### Value Labels

 Scale: continuous

 .A “Did not participate”

 .N “Not stated or inferred”

#### Reference variables

 NFEHRS, B\_Q20b, NFE12

#### SAS code

\*/

 if B\_Q20b = 1 and NFEHRS >= 0 then NFEHRSNJR = NFEHRS;

 else if B\_Q20b = 2 and NFEHRS >= 0 then NFEHRSNJR = NFEHRS\*0.75;

 else if B\_Q20b = 3 and NFEHRS >= 0 then NFEHRSNJR = NFEHRS/2;

 else if B\_Q20b = 4 and NFEHRS >= 0 then NFEHRSNJR = NFEHRS/4;

 else if B\_Q20b = 5 and NFEHRS >= 0 then NFEHRSNJR = 0;

 else NFEHRSNJR = .N;

 if NFE12 = 0 then NFEHRSNJR = .A;

 if Disp\_BQ = . then NFEHRSNJR = .;

#### Note

 See note for NFEHRSJR.

### NFEHRSJR

#### Variable Label

 Number of hours of participation in non-formal education for job-related reasons

#### Value Labels

 Scale: continuous

 .A “Did not participate”

 .N “Not stated or inferred”

#### Reference variables

 NFEHRS, B\_Q20b, NFE12

#### SAS code

\*/

 if B\_Q20b = 1 and NFEHRS >= 0 then NFEHRSJR = 0;

 else if B\_Q20b = 2 and NFEHRS >= 0 then NFEHRSJR = NFEHRS/4;

 else if B\_Q20b = 3 and NFEHRS >= 0 then NFEHRSJR = NFEHRS/2;

 else if B\_Q20b = 4 and NFEHRS >= 0 then NFEHRSJR = NFEHRS\*3/4;

 else if B\_Q20b = 5 and NFEHRS >= 0 then NFEHRSJR = NFEHRS;

 else NFEHRSJR = .N;

 if NFE12 = 0 then NFEHRSJR = .A;

 if Disp\_BQ = . then NFEHRSJR = .;

/\*

#### Note

 To transform the data collected on a percentage scale, some assumptions are made and each category is assigned a number as follows. None of the time is assigned 0. Up to a quarter of the time is assigned the maximum possible value of 25%. Up to half of the time is assigned the maximum possible value of 50%. More than half of the time is assigned the maximum possible value of 75%. All of the time is assigned the maximum possible value of 75%.

### NFEHRS

#### Variable Label

 Number of hours of participation in non-formal education

#### Value Labels

 Scale: continuous

 .A “Did not participate”

 .N “Not stated or inferred”

#### Reference variables

 B\_Q17, B\_Q18a, B\_Q19a, B\_Q20a, NFE12

#### SAS code

\*/

 if NFE12 = 0 then NFEHRS = .A;

 else if B\_Q17 = 1 and B\_Q18a not in( .V, .D, .R, .N, .) then NFEHRS = min (B\_Q18a, 48 )\*40;

 else if B\_Q17 = 2 and B\_Q19a not in( .V, .D, .R, .N, .) then NFEHRS = min (B\_Q19a, 240 )\* 8;

 else if B\_Q17 = 3 and B\_Q20a not in( .V, .D, .R, .N, .) then NFEHRS = min (B\_Q20a, 1920);

 else NFEHRS = .N;

 if Disp\_BQ = . then NFEHRS = .;

/\*

#### Note

 To transform the data collected on a common metric and correct for possible outiers, a number of assumptions are made to derive this variable as follows. The number of hours in a "whole weeks" is assumed to be 40. A maximum ceiling for number of weeks spent in an activity is assumed to be 48 (i.e., a full year minus 4 weeks). The number of hours in a "whole days" is assumed to be 8. A maximum ceiling for number of hours spent per week in an activity is assumed to be 240. A maximum ceiling for number of hours spent per year in an activity is assumed to be 1920.

## Labour Force variables

### 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”

 .U “Unknown”

 .N “Not stated or inferred”

#### Reference variables

 C\_D06, C\_Q08a

#### SAS code

\*/

 if C\_Q08a = 2 then NOPAIDWORKEVER = 1;

 else if C\_Q08a = 1 then NOPAIDWORKEVER = 0;

 else NOPAIDWORKEVER = .N;

 if C\_D06 in (1,2) then NOPAIDWORKEVER = 0;

 if C\_D06 = 5 and NOPAIDWORKEVER not in (0,1) then NOPAIDWORKEVER = .U;

 if Disp\_BQ = . then NOPAIDWORKEVER = .;

 /\*

### 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”

.N “Not stated or inferred”

#### Reference variables

 C\_D06, C\_Q08a, C\_Q08b

#### SAS code

\*/

 if C\_D06 in (1,2) then PAIDWORK12 = 1;

 else if C\_Q08b = 1 then PAIDWORK12 = 1;

 else if C\_Q08a = 2 or C\_Q08b = 2 then PAIDWORK12 = 0;

 else PAIDWORK12 = .N;

 if Disp\_BQ = . then PAIDWORK12 = .;

 /\*

### 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”

.U “Unknown”

#### Reference variables

 C\_D06, C\_Q08a, C\_D08c, A\_D01a3, C\_Q08c2

#### SAS code

\*/

 if C\_D06 in (1,2) then PAIDWORK5 = 1;

 else if C\_Q08a = 1 and C\_D08c = 1 then PAIDWORK5 = 1;

 else if C\_Q08a = 1 and A\_D01a3 >= .Z and C\_Q08c2 >= .Z and (A\_D01a3-C\_Q08c2)>5 then PAIDWORK5 = 0;

 else if C\_Q08a = 2 then PAIDWORK5 = 0;

 else PAIDWORK5 = .U;

 if Disp\_BQ = . then PAIDWORK5 = .;

 /\*

### ISCOSKIL4

#### Variable Label

 Occupational classification of respondent's job (4 skill based categories), last or current

#### Value Labels

 Scale: discrete (categorical)

1 “Skilled occupations”

2 “Semi-skilled white-collar occupations”

3 “Semi-skilled blue-collar occupations”

4 “Elementary occupations”

.A “Has not worked more than 5 years”

 .U “Unknown”

 .N “Not stated or inferred”

#### Reference variables

 ISCO08\_C, ISCO08\_L, PAIDWORK5

#### SAS code

\*/

 temp\_isco\_08\_C = Substr(ISCO08\_C,1,1);

 temp\_isco\_08\_L = Substr(ISCO08\_L,1,1);

 if ISCO08\_C in ("9996","9997","9998","9999") then temp\_isco\_08\_C = "";

 if ISCO08\_L in ("9996","9997","9998","9999") then temp\_isco\_08\_L = "";

 temp\_isco\_cl = max(temp\_isco\_08\_C,temp\_isco\_08\_L);

 if temp\_isco\_cl in (1,2,3) then ISCOSKIL4 = 1;

 else if temp\_isco\_cl in (4,5) then ISCOSKIL4 = 2;

 else if temp\_isco\_cl in (6,7,8) then ISCOSKIL4 = 3;

 else if temp\_isco\_cl in (9) then ISCOSKIL4 = 4;

 else if temp\_isco\_cl in (0) then ISCOSKIL4 = .N;

 else ISCOSKIL4 = .U;

 if PAIDWORK5 = 0 then ISCOSKIL4 = .A;

 drop temp\_isco\_08\_C;

 drop temp\_isco\_08\_L;

 drop temp\_isco\_cl;

 if Disp\_BQ = . then ISCOSKIL4 = .;

 /\*

### 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”

 .U “No paid work for past 5 years”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISIC4\_L, PAIDWORK5

#### SAS code

\*/

 temp\_ISIC4\_L = Substr(ISIC4\_L,1,2);

 if temp\_ISIC4\_L in ("A","B","C","D","E","F","G","H","I","J","K","L","M","N","O","P","Q","R","S","T","U")

 then ISIC1L = temp\_ISIC4\_L;

 else if temp\_ISIC4\_L in("01","02","03") then ISIC1L = "A";

 else if temp\_ISIC4\_L in("05","06","07","08","09") then ISIC1L = "B";

 else if temp\_ISIC4\_L 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 ISIC1L = "C";

 else if temp\_ISIC4\_L in("35") then ISIC1L = "D";

 else if temp\_ISIC4\_L in("36","37","38","39") then ISIC1L = "E";

 else if temp\_ISIC4\_L in("41","42","43") then ISIC1L = "F";

 else if temp\_ISIC4\_L in("45","46","47") then ISIC1L = "G";

 else if temp\_ISIC4\_L in("49","50","51","52","53") then ISIC1L = "H";

 else if temp\_ISIC4\_L in("55","56") then ISIC1L = "I";

 else if temp\_ISIC4\_L in("58","59","60","61","62","63") then ISIC1L = "J";

 else if temp\_ISIC4\_L in("64","65","66") then ISIC1L = "K";

 else if temp\_ISIC4\_L in("68") then ISIC1L = "L";

 else if temp\_ISIC4\_L in("69","70","71","72","73","74","75") then ISIC1L = "M";

 else if temp\_ISIC4\_L in("77","78","79","80","81","82") then ISIC1L = "N";

 else if temp\_ISIC4\_L in("84") then ISIC1L = "O";

 else if temp\_ISIC4\_L in("85") then ISIC1L = "P";

 else if temp\_ISIC4\_L in("86","87","88") then ISIC1L = "Q";

 else if temp\_ISIC4\_L in("90","91","92","93") then ISIC1L = "R";

 else if temp\_ISIC4\_L in("94","95","96") then ISIC1L = "S";

 else if temp\_ISIC4\_L in("97","98") then ISIC1L = "T";

 else if temp\_ISIC4\_L in("99") then ISIC1L = "U";

 else ISIC1L = "9999";

 drop temp\_ISIC4\_L;

 if ISIC4\_L = "9996" then ISIC1L = .V;

 if ISIC4\_L = "9997" then ISIC1L = .D;

 if ISIC4\_L = "9998" then ISIC1L = .R;

 if ISIC4\_L = "9999" then ISIC1L = .N;

 if PAIDWORK5 = 0 then ISIC1L = .U;

 if Disp\_BQ = . then ISIC1L = .;

 /\*

### 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 profucts 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”

 “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”

 .U “No paid work for past 5 years”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISIC4\_L, PAIDWORK5

#### SAS code

\*/

 ISIC2L = .N;

 if ISIC4\_L = "9996" then ISIC2L = .V;

 if ISIC4\_L = "9997" then ISIC2L = .D;

 if ISIC4\_L = "9998" then ISIC2L = .R;

 if ISIC4\_L = "9999" then ISIC2L = .N;

 if ISIC4\_L ^in ("","9996","9997","9998","9999") then ISIC2L = Substr(ISIC4\_L,1,2);

 if PAIDWORK5 = 0 then ISIC2L = .U;

 if Disp\_BQ = . then ISIC2L = .;

 /\*

### 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”

 .U “No paid work for past 5 years”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISIC4\_C, PAIDWORK5

#### SAS code

\*/

 temp\_ISIC4\_C = Substr(ISIC4\_C,1,2);

 if temp\_ISIC4\_C in ("A","B","C","D","E","F","G","H","I","J","K","L","M","N","O","P","Q","R","S","T","U") then ISIC1C = temp\_ISIC4\_C;

 else if temp\_ISIC4\_C in("01","02","03") then ISIC1C = "A";

 else if temp\_ISIC4\_C in("05","06","07","08","09") then ISIC1C = "B";

 else if temp\_ISIC4\_C 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 ISIC1C = "C";

 else if temp\_ISIC4\_C in("35") then ISIC1C = "D";

 else if temp\_ISIC4\_C in("36","37","38","39") then ISIC1C = "E";

 else if temp\_ISIC4\_C in("41","42","43") then ISIC1C = "F";

 else if temp\_ISIC4\_C in("45","46","47") then ISIC1C = "G";

 else if temp\_ISIC4\_C in("49","50","51","52","53") then ISIC1C = "H";

 else if temp\_ISIC4\_C in("55","56") then ISIC1C = "I";

 else if temp\_ISIC4\_C in("58","59","60","61","62","63") then ISIC1C = "J";

 else if temp\_ISIC4\_C in("64","65","66") then ISIC1C = "K";

 else if temp\_ISIC4\_C in("68") then ISIC1C = "L";

 else if temp\_ISIC4\_C in("69","70","71","72","73","74","75") then ISIC1C = "M";

 else if temp\_ISIC4\_C in("77","78","79","80","81","82") then ISIC1C = "N";

 else if temp\_ISIC4\_C in("84") then ISIC1C = "O";

 else if temp\_ISIC4\_C in("85") then ISIC1C = "P";

 else if temp\_ISIC4\_C in("86","87","88") then ISIC1C = "Q";

 else if temp\_ISIC4\_C in("90","91","92","93") then ISIC1C = "R";

 else if temp\_ISIC4\_C in("94","95","96") then ISIC1C = "S";

 else if temp\_ISIC4\_C in("97","98") then ISIC1C = "T";

 else if temp\_ISIC4\_C in("99") then ISIC1C = "U";

 else ISIC1C = .N;

 drop temp\_ISIC4\_C;

 if ISIC4\_C = "9996" then ISIC1C = .V;

 if ISIC4\_C = "9997" then ISIC1C = .D;

 if ISIC4\_C = "9998" then ISIC1C = .R;

 if ISIC4\_C = "9999" then ISIC1C = .N;

 if PAIDWORK5 = 0 then ISIC1C = .U;

 if Disp\_BQ = . then ISIC1C = .;

 /\*

### 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”

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 “16” “Manufacture of wood and of profucts of wood and cork, except furniture; manufacture of articles of straw and plait”

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 “19” “Manufacture of coke and refined petroleum products”

 “20” “Manufacture of chemicals and chemical products”

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 “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”

 “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”

 .U “No paid work for past 5 years”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISIC4\_C, PAIDWORK5

#### SAS code

\*/

 ISIC2C = .N;

 if ISIC4\_C = "9996" then ISIC2C = .V;

 if ISIC4\_C = "9997" then ISIC2C = .D;

 if ISIC4\_C = "9998" then ISIC2C = .R;

 \*if ISIC4\_C = "9999" then ISIC2C = .N;

 if ISIC4\_C ^in ("","9996","9997","9998","9999") then ISIC2C = Substr(ISIC4\_C,1,2);

 if PAIDWORK5 = 0 then ISIC2C = .U;

 if Disp\_BQ = . then ISIC2C = .;

 /\*

### 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”

 .U “No paid work for past 5 years”

 .V “Valid skip”

 .D “Don't know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISCO08\_C, PAIDWORK5

#### SAS code

\*/

 ISCO1C = .N;

 if ISCO08\_C = "9996" then ISCO1C = .V;

 if ISCO08\_C = "9997" then ISCO1C = .D;

 if ISCO08\_C = "9998" then ISCO1C = .R;

 if ISCO08\_C = "9999" then ISCO1C = .N;

 if ISCO08\_C ^in ("","9996","9997","9998","9999") then ISCO1C = Substr(ISCO08\_C,1,1);

 if PAIDWORK5 = 0 then ISCO1C = .U;

 if Disp\_BQ = . then ISCO1C = .;

 /\*

### ISCO2C

#### 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”

 “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”

 .U “No paid work for past 5 years”

 .V “Valid skip”

 .D “Don't know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISCO08\_C, PAIDWORK5

#### SAS code

\*/

 ISCO2C = .N;

 if ISCO08\_C ^in ("","9996","9997","9998","9999") then ISCO2C = Substr(ISCO08\_C,1,2);

 if ISCO08\_C = "9996" then ISCO2C = .V;

 if ISCO08\_C = "9997" then ISCO2C = .D;

 if ISCO08\_C = "9998" then ISCO2C = .R;

 if ISCO08\_C = "9999" then ISCO2C = .N;

 if PAIDWORK5 = 0 then ISCO2C = .U;

 if Disp\_BQ = . then ISCO2C = .;

 /\*

### 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”

 .U “No paid work for past 5 years”

 .V “Valid skip”

 .D “Don't know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISCO08\_L, PAIDWORK5

#### SAS code

\*/

 ISCO1L = .N;

 if ISCO08\_L = "9996" then ISCO1L = .V;

 if ISCO08\_L = "9997" then ISCO1L = .D;

 if ISCO08\_L = "9998" then ISCO1L = .R;

 if ISCO08\_L = "9999" then ISCO1L = .N;

 if ISCO08\_L ^in ("","9996","9997","9998","9999") then ISCO1L = Substr(ISCO08\_L,1,1);

 if PAIDWORK5 = 0 then ISCO1L = .U;

 if Disp\_BQ = . then ISCO1L = .;

 /\*

### 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”

 “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”

 .U “No paid work for past 5 years”

 .V “Valid skip”

 .D “Don't know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 ISCO08\_L, PAIDWORK5

#### SAS code

\*/

 ISCO2L = .N;

 if ISCO08\_L = "9996" then ISCO2L = .V;

 if ISCO08\_L = "9997" then ISCO2L = .D;

 if ISCO08\_L = "9998" then ISCO2L = .R;

 if ISCO08\_L = "9999" then ISCO2L = .N;

 if ISCO08\_L ^in ("","9996","9997","9998","9999") then ISCO2L = Substr(ISCO08\_L,1,2);

 if PAIDWORK5 = 0 then ISCO2L = .U;

 if Disp\_BQ = . then ISCO2L = .;

## Earnings variables

### EARNHR

#### Variable Label

 Hourly earnings excluding bonuses for wage and salary earners

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNHRDCL

#### Variable Label

 Hourly earnings excluding bonuses for wage and salary earners, in deciles

#### Value Labels

 Scale: ordinal (categorical)

 1 “Lowest decile”

 2 “9th decile”

 3 “8th decile”

 4 “7th decile”

 5 “6th decile”

 6 “5th decile”

 7 “4th decile”

 8 “3rd decile”

 9 “2nd decile”

 10 “Highest decile”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNHRPPP

#### Variable Label

 Hourly earnings excluding bonuses for wage and salary earners, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNHRBONUS

#### Variable Label

 Hourly earnings including bonuses for wage and salary earners

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNHRBONUSDCL

#### Variable Label

 Hourly earnings including bonuses for wage and salary earners, in deciles

#### Value Labels

 Scale: ordinal (categorical)

 1 “Lowest decile”

 2 “9th decile”

 3 “8th decile”

 4 “7th decile”

 5 “6th decile”

 6 “5th decile”

 7 “4th decile”

 8 “3rd decile”

 9 “2nd decile”

 10 “Highest decile”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNHRBONUSPPP

#### Variable Label

 Hourly earnings including bonuses for wage and salary earners, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTH

#### Variable Label

 Monthly earnings excluding bonuses for wage and salary earners

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHPPP

#### Variable Label

 Monthly earnings excluding bonuses for wage and salary earners, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHSELFPPP

#### Variable Label

 Monthly earnings for self-employed, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHBONUS

#### Variable Label

 Monthly earnings including bonuses for wage and salary earners

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHALL

#### Variable Label

 Monthly earnings including bonuses for wage and salary earners and self-employed

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHALLDCL

#### Variable Label

 Monthly earnings including bonuses for wage and salary earners and self-employed, in deciles

#### Value Labels

 Scale: ordinal (categorical)

 1 “Lowest decile”

 2 “9th decile”

 3 “8th decile”

 4 “7th decile”

 5 “6th decile”

 6 “5th decile”

 7 “4th decile”

 8 “3rd decile”

 9 “2nd decile”

 10 “Highest decile”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHALLPPP

#### Variable Label

 Monthly earnings including bonuses for wage and salary earners and self-employed, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNMTHBONUSPPP

#### Variable Label

 Monthly earnings including bonuses for wage and salary earners, PPP corrected $US

#### Value Labels

 Scale: continuous

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

### EARNFLAG

#### Variable Label

 Earnings including bonuses reporting method

#### Value Labels

 Scale: discrete (categorical)

 1 “Reported directly”

 2 “Earnings and/or bonuses imputed”

 .N “Neither reported nor imputed”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA

## Skill use at work index variables

### LEARNATWORK

#### Variable Label

 Index of learning at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 D\_Q13a, D\_Q13b, D\_Q13c

#### SAS code

 Variables derived by Consortium member ETS

### LEARNATWORK\_SE

#### Variable Label

 Index of learning at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 D\_Q13a, D\_Q13b, D\_Q13c

#### SAS code

 Variables derived by Consortium member ETS

### LEARNATWORK\_WLE\_CA

#### Variable Label

 Index of learning at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 D\_Q13a, D\_Q13b, D\_Q13c

#### SAS code

 Variables derived by Consortium member ETS

### READYTOLEARN

#### Variable Label

 Index of readiness to learn

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ETS

### READYTOLEARN\_SE

#### Variable Label

 Index of readiness to learn, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ETS

### READYTOLEARN\_WLE\_CA

#### Variable Label

 Index of readiness to learn, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ETS

### ICTHOME

#### Variable Label

 Index of use of ICT skills at home

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q05a, H\_Q05c, H\_Q05d, H\_Q05e, H\_Q05f, H\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### ICTHOME\_SE

#### Variable Label

 Index of use of ICT skills at home, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q05a, H\_Q05c, H\_Q05d, H\_Q05e, H\_Q05f, H\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### ICTHOME\_WLE\_CA

#### Variable Label

 Index of use of ICT skills at home, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 H\_Q05a, H\_Q05c, H\_Q05d, H\_Q05e, H\_Q05f, H\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### ICTWORK

#### Variable Label

 Index of use of ICT skills at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q05a, G\_Q05c, G\_Q05d, G\_Q05e, G\_Q05f, G\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### ICTWORK\_SE

#### Variable Label

 Index of use of ICT skills at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q05a, G\_Q05c, G\_Q05d, G\_Q05e, G\_Q05f, G\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### ICTWORK\_WLE\_CA

#### Variable Label

 Index of use of ICT skills at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 G\_Q05a, G\_Q05c, G\_Q05d, G\_Q05e, G\_Q05f, G\_Q05h

#### SAS code

 Variables derived by Consortium member ETS

### INFLUENCE

#### Variable Label

 Index of use of influencing skills at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 F\_Q02b, F\_Q02c, F\_Q02e, F\_Q03b, F\_Q04a, F\_Q04b

#### SAS code

 Variables derived by Consortium member ETS

### INFLUENCE\_SE

#### Variable Label

 Index of use of influencing skills at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 F\_Q02b, F\_Q02c, F\_Q02e, F\_Q03b, F\_Q04a, F\_Q04b

#### SAS code

 Variables derived by Consortium member ETS

### INFLUENCE\_WLE\_CA

#### Variable Label

 Index of use of influencing skills at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 F\_Q02b, F\_Q02c, F\_Q02e, F\_Q03b, F\_Q04a, F\_Q04b

#### SAS code

 Variables derived by Consortium member ETS

### NUMHOME

#### Variable Label

 Index of use of numeracy skills at home (basic and advanced)

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q03b, H\_Q03c, H\_Q03d, H\_Q03f, H\_Q03g, H\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### NUMHOME\_SE

#### Variable Label

 Index of use of numeracy skills at home (basic and advanced), standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q03b, H\_Q03c, H\_Q03d, H\_Q03f, H\_Q03g, H\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### NUMHOME\_WLE\_CA

#### Variable Label

 Index of use of numeracy skills at home (basic and advanced), categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 H\_Q03b, H\_Q03c, H\_Q03d, H\_Q03f, H\_Q03g, H\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### NUMWORK

#### Variable Label

 Index of use of numeracy skills at work (basic and advanced)

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q03b, G\_Q03c, G\_Q03d, G\_Q03f, G\_Q03g, G\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### NUMWORK\_SE

#### Variable Label

 Index of use of numeracy skills at work (basic and advanced), standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q03b, G\_Q03c, G\_Q03d, G\_Q03f, G\_Q03g, G\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### NUMHOME\_WLE\_CA

#### Variable Label

 Index of use of numeracy skills at work (basic and advanced), categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 G\_Q03b, G\_Q03c, G\_Q03d, G\_Q03f, G\_Q03g, G\_Q03h

#### SAS code

 Variables derived by Consortium member ETS

### PLANNING

#### Variable Label

 Index of use of planning skills at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 F\_Q03a, F\_Q03b, F\_Q03c

#### SAS code

 Variables derived by Consortium member ETS

### PLANNING\_SE

#### Variable Label

 Index of use of planning skills at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 F\_Q03a, F\_Q03b, F\_Q03c

#### SAS code

 Variables derived by Consortium member ETS

### PLANNING\_WLE\_CA

#### Variable Label

 Index of use of planning skills at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 F\_Q03a, F\_Q03b, F\_Q03c

#### SAS code

 Variables derived by Consortium member ETS

### READHOME

#### Variable Label

 Index of use of reading skills at home (prose and document texts)

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q01a, H\_Q01b, H\_Q01c, H\_Q01d, H\_Q01e, H\_Q01f, H\_Q01g, H\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### READHOME\_SE

#### Variable Label

 Index of use of reading skills at home (prose and document texts), standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q01a, H\_Q01b, H\_Q01c, H\_Q01d, H\_Q01e, H\_Q01f, H\_Q01g, H\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### READHOME\_WLE\_CA

#### Variable Label

 Index of use of reading skills at home (prose and document texts), categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 H\_Q01a, H\_Q01b, H\_Q01c, H\_Q01d, H\_Q01e, H\_Q01f, H\_Q01g, H\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### READWORK

#### Variable Label

 Index of use of reading skills at work (prose and document texts)

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q01a, G\_Q01b, G\_Q01c, G\_Q01d, G\_Q01e, G\_Q01f, G\_Q01g, G\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### READWORK\_SE

#### Variable Label

 Index of use of reading skills at work (prose and document texts), standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q01a, G\_Q01b, G\_Q01c, G\_Q01d, G\_Q01e, G\_Q01f, G\_Q01g, G\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### READWORK\_WLE\_CA

#### Variable Label

 Index of use of reading skills at work (prose and document texts), categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 G\_Q01a, G\_Q01b, G\_Q01c, G\_Q01d, G\_Q01e, G\_Q01f, G\_Q01g, G\_Q01h

#### SAS code

 Variables derived by Consortium member ETS

### TASKDISC

#### Variable Label

 Index of use of task discretion at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 D\_Q11a, D\_Q11b, D\_Q11c, D\_Q11d

#### SAS code

 Variables derived by Consortium member ETS

### TASKDISC\_SE

#### Variable Label

 Index of use of task discretion at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 D\_Q11a, D\_Q11b, D\_Q11c, D\_Q11d

#### SAS code

 Variables derived by Consortium member ETS

### TASKDISC\_WLE\_CA

#### Variable Label

 Index of use of task discretion at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 D\_Q11a, D\_Q11b, D\_Q11c, D\_Q11d

#### SAS code

 Variables derived by Consortium member ETS

### WRITHOME

#### Variable Label

 Index of use of writing skills at home

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q02a, H\_Q02b, H\_Q02c, H\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITHOME\_SE

#### Variable Label

 Index of use of writing skills at home, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 H\_Q02a, H\_Q02b, H\_Q02c, H\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITHOME\_WLE\_CA

#### Variable Label

 Index of use of writing skills at home, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 H\_Q02a, H\_Q02b, H\_Q02c, H\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITWORK

#### Variable Label

 Index of use of writing skills at work

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q02a, G\_Q02b, G\_Q02c, G\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITWORK\_SE

#### Variable Label

 Index of use of writing skills at work, standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q02a, G\_Q02b, G\_Q02c, G\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITWORK\_WLE\_CA

#### Variable Label

 Index of use of writing skills at work, categorised WLE

#### Value Labels

 Scale:

 1 “Lowest to 20%”

 2 “More than 20% to 40%”

 3 “More than 40% to 60%”

 4 “More than 60% to 80%”

 5 “More than 80%”

 .N “All zero response”

#### Reference variables

 G\_Q02a, G\_Q02b, G\_Q02c, G\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

### WRITWORK\_SE\_WLE

#### Variable Label

 Index of use of writing skills at work, WLE standard error

#### Value Labels

 Scale:

 .N “All zero response”

#### Reference variables

 G\_Q02a, G\_Q02b, G\_Q02c, G\_Q02d

#### SAS code

 Variables derived by Consortium member ETS

## Trend-IALS/ALL

### AGEG10LFS\_T

#### Variable Label

 Age in 10 year bands (Trend-IALS/ALL)

#### Value Labels

 Scale: ordinal (categorical)

 1 “24 or less”

 2 “25-34”

 3 “35-44”

 4 “45-54”

 5 “55 plus”

 .V “Valid skip’’

 .D “Don’t know”

 .R “Refused”

 .N “Not stated or inferred”

#### Reference variables

 AGEG10LFS

#### SAS code

AGEG10LFS\_T = AGEG10LFS;

### YRSQUAL\_T

#### Variable Label

 Derived variable on total years of schooling during lifetime - top coded at 24 (Trend-IALS/ALL)

#### Value Labels

 Scale: continuous

 .V “Valid skip’’

 .R “Don’t know/Refused”

 .N “Not stated or inferred”

#### Reference variables

#### SAS code

 Variables derived by Consortium member ROA