

PxEdit 4.0

Table editing

Table window

Table window

[1] Migration by region, sex, period, type and age

File Edit Window Language

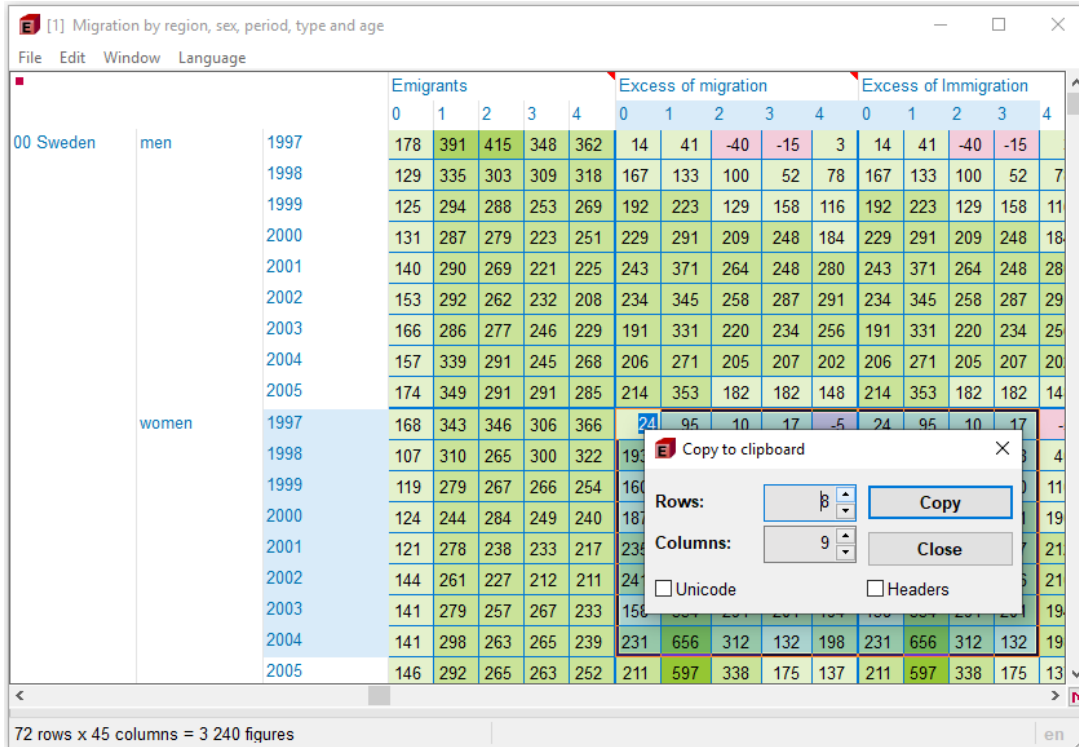
		Emigrants					Excess of migration					Excess of Immigration				
		0	1	2	3	4	0	1	2	3	4	0	1	2	3	4
00 Sweden	men	1997	178	391	415	348	362	14	41	-40	-15	3	14	41	-40	-15
		1998	129	335	303	309	318	167	133	100	52	78	167	133	100	52
		1999	125	294	288	253	269	192	223	129	158	116	192	223	129	158
		2000	131	287	279	223	251	229	291	209	248	184	229	291	209	248
		2001	140	290	269	221	225	243	371	264	248	280	243	371	264	248
		2002	153	292	262	232	208	234	345	258	287	291	234	345	258	287
		2003	166	286	277	246	229	191	331	220	234	256	191	331	220	234
		2004	157	339	291	245	268	206	271	205	207	202	206	271	205	207
		2005	174	349	291	291	285	214	353	182	182	148	214	353	182	182
	women	1997	168	343	346	306	366	24	95	10	17	-5	24	95	10	17
		1998	107	310	265	300	322	193	269	128	68	40	193	269	128	68
		1999	119	279	267	266	254	160	315	155	90	110	160	315	155	90
		2000	124	244	284	249	240	187	459	195	201	190	187	459	195	201
		2001	121	278	238	233	217	235	448	282	227	212	235	448	282	227
		2002	144	261	227	212	211	241	541	273	266	210	241	541	273	266
		2003	141	279	257	267	233	158	554	291	201	194	158	554	291	201
		2004	141	298	263	265	239	231	656	312	132	198	231	656	312	132
		2005	146	292	265	263	252	211	597	338	175	137	211	597	338	175

72 rows x 45 columns = 3 240 figures

en

- Reduced *File*, *Edit*, *Window* and *Language* menus are available
- The **m** button in the bottom right corner opens the *Metadata editor*
 - double click moves the *Editor* window beside the table
- Range colouring may be used to display main differences
 - five positive and negative ranges
 - dot codes and zero
- Minimum and maximum values are shown by double-clicking the lower right field

Table window: editing



00 Sweden men 1997 1998 1999 2000 2001 2002 2003 2004 2005

women 1997 1998 1999 2000 2001 2002 2003 2004 2005

Emigrants 0 1 2 3 4

Excess of migration 0 1 2 3 4

Excess of Immigration 0 1 2 3 4

Copy to clipboard

Rows: 8

Columns: 9

☐ Unicode ☐ Headers

Copy Close

72 rows x 45 columns = 3 240 figures

- Any cell may be edited
 - the dot codes can be tricky
- No block selections
- Move around with keyboard
 - PageUp/PageDown/Home/End
 - Up/Down/Left/Right arrows
 - Ctrl+PageUp/...
- Clipboard support
 - **Ctrl+c** opens a copy window
 - **Ctrl+v** copies the data as much as possible
- Do not forget *Undo* [**Ctrl+z**]

Table window: find and replace

[1] Migration by region, sex, period, type and age

File

Edit

Window

Language

00 Sweden

men

	Excess of...		Excess of Immigration						Internal immigrated					
	3	4	0	1	2	3	4	0	1	2	3	4		
1997	-15	3	14	41	-40	-15	3	0	0	0	0	0		
1998	52	78	167	133	100	52	78	0	0	0	0	0		
1999	158	116	192	223	129	158	116	0	0	0	0	0		
2000	248	184	229	291	209	248	184	0	0	0	0	0		
2001	248	280	243	371	264	248	280	0	0	0	0	0		
2002	201	190	187	459	195	201	190	0	0	0	0	0		
2003	227	212	235	448	282	227	212	0	0	0	0	0		
2004	266	210	241	541	273	266	210	0	0	0	0	0		
2005	201	194	158	554	291	201	194	0	0	0	0	0		
2006	132	198	231	656	312	132	198	0	0	0	0	0		
2007	175	137	211	597	338	175	137	0	0	0	0	0		

72 rows x 45 columns = 3 240 figures

searching...

women

2000	201	190	187	459	195	201	190	0	0	0	0	0
2001	227	212	235	448	282	227	212	0	0	0	0	0
2002	266	210	241	541	273	266	210	0	0	0	0	0
2003	201	194	158	554	291	201	194	0	0	0	0	0
2004	132	198	231	656	312	132	198	0	0	0	0	0
2005	175	137	211	597	338	175	137	0	0	0	0	0

en

Find and replace in table

Find:

Replace:

☒ down

☐ up

Find

Replace

All

Close

- You can search for an individual value or desired data range
 - dot codes are possible, too
 - in addition to the down and up selections, there are shortcuts:
F3 searches forward,
F2 backward, and
Ctrl+F3 gives the number of all hits
- Replace will be active when there is anything in the replace field
 - replacing may be done cell by cell or in one go with **All** button

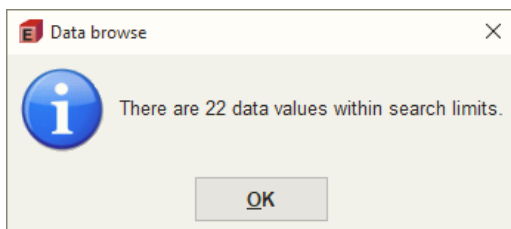
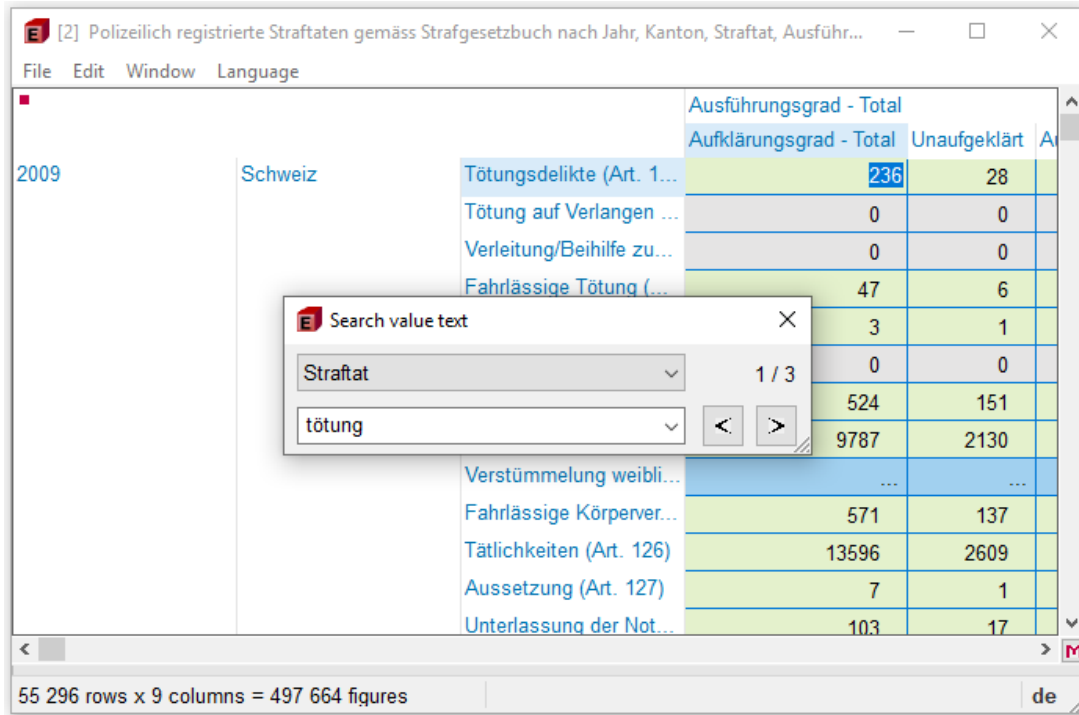


Table window: value navigation



The screenshot shows a table window titled "[2] Polizeilich registrierte Straftaten gemäss Strafgesetzbuch nach Jahr, Kanton, Straftat, Ausführ...". The table displays crime statistics for the year 2009 in Switzerland. A search window titled "Search value text" is open, showing the search results for the text "tötung". The search results are displayed in a table with two columns: "Straftat" and "tötung". The search results show 1 / 3 results.

Straftat	tötung
Tötungsdelikte (Art. 1...	236
Tötung auf Verlangen ...	0
Verleitung/Beihilfe zu...	0
Fahrlässige Tötung (...)	47
Verstümmelung weibli...	...
Fahrlässige Körperver...	571
Tätlichkeiten (Art. 126)	13596
Aussetzung (Art. 127)	7
Unterlassung der Not...	103

55 296 rows x 9 columns = 497 664 figures

- Sometimes there may be so many value texts that there is need for a precise value text search
- *Edit/Find value* or shortcut **Shift+f** opens a separate **search** window
 - the drop-down menu shows the table variables
 - you may write **any** text string in the search field
 - the text will be searched within the value texts when pressing the forward (>) or backward (<) button, or **Enter** and **Esc** keys correspondingly
 - the search is **case-independent**

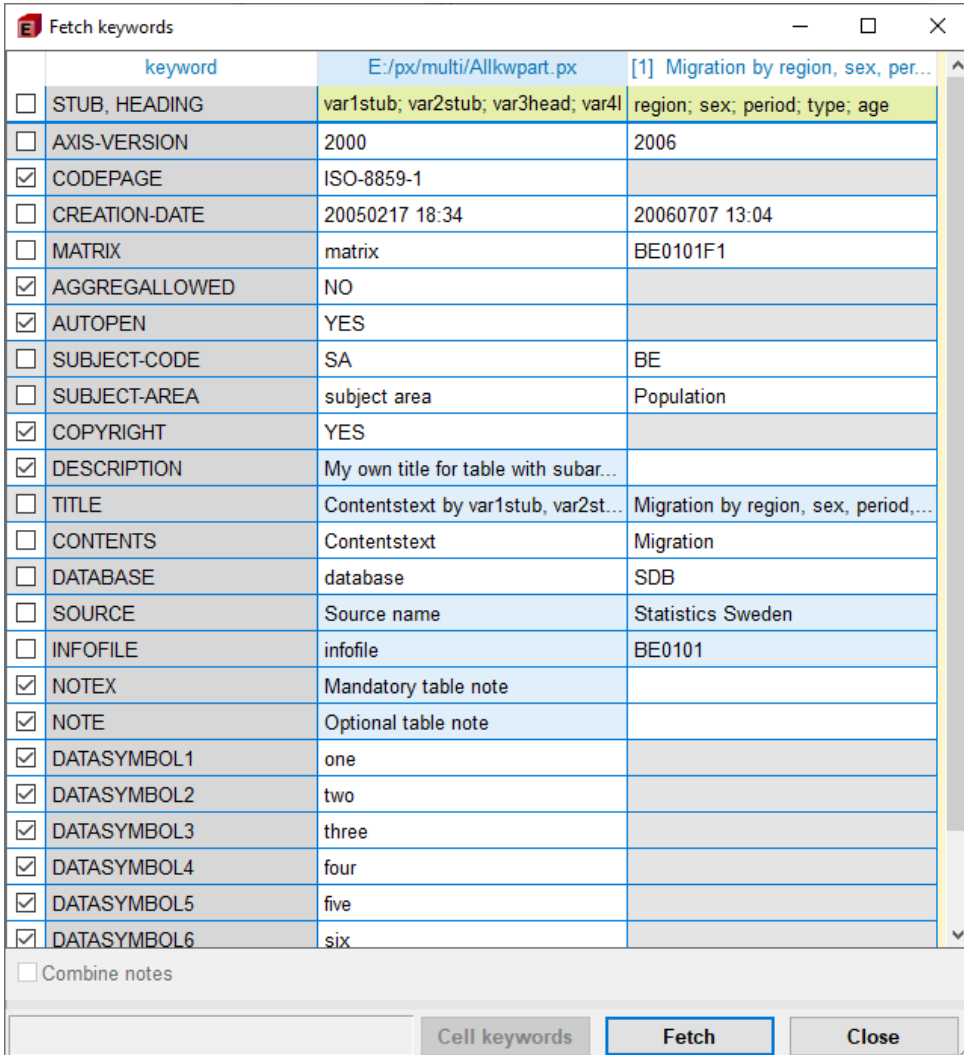
Metadata editor: Keywords

Keywords Tab

keyword	value
CHARSET	ANSI
AXIS-VERSION	2006
CODEPAGE	
LANGUAGE	en
LANGUAGES	
CREATION-DATE	20060707 13:04
DECIMALS	0
SHOWDECIMALS	0
MATRIX	BE0101F1
SUBJECT-CODE	BE
SUBJECT-AREA	Population
COPYRIGHT	
DESCRIPTION	
TITLE	Migration by region, sex, period, type and age
CONTENTS	Migration
UNITS	number
CONTVARIABLE	type

- Keywords are grouped in four sheets
- Field **colours** denote different actions
 - one-line input (with maximum length)
 - multi-line input
 - selection lists
 - numeric
 - time and date
 - unknown
 - special fields (e.g. *TIMEVAL*)
- **Hide** selection conceals all non-mandatory and empty keywords
 - the user level also affects the list
 - also affects the value-specific keywords

Keywords: import



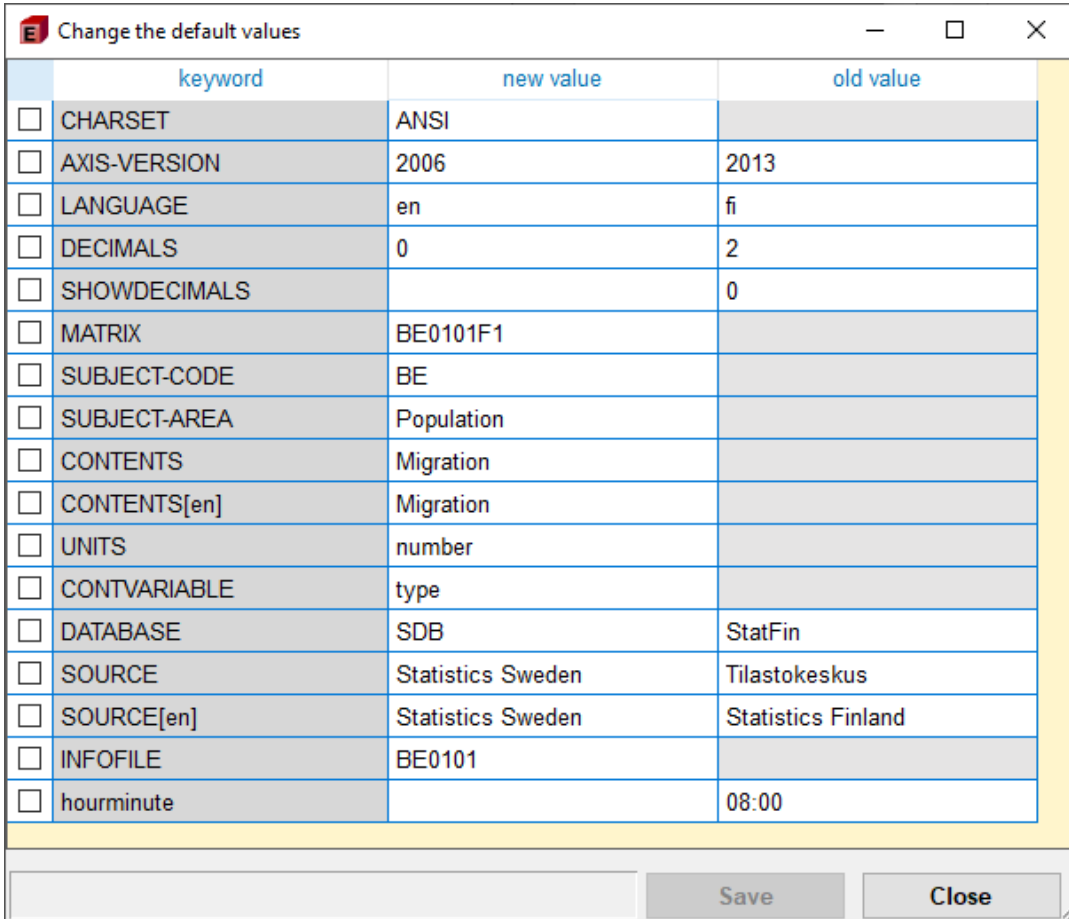
	keyword	E:/px/multi/Allkwpart.px	[1] Migration by region, sex, per...
<input type="checkbox"/>	STUB, HEADING	var1stub; var2stub; var3head; var4	region; sex; period; type; age
<input type="checkbox"/>	AXIS-VERSION	2000	2006
<input checked="" type="checkbox"/>	CODEPAGE	ISO-8859-1	
<input type="checkbox"/>	CREATION-DATE	20050217 18:34	20060707 13:04
<input type="checkbox"/>	MATRIX	matrix	BE0101F1
<input checked="" type="checkbox"/>	AGGREGALLOWED	NO	
<input checked="" type="checkbox"/>	AUTOPEN	YES	
<input type="checkbox"/>	SUBJECT-CODE	SA	BE
<input type="checkbox"/>	SUBJECT-AREA	subject area	Population
<input checked="" type="checkbox"/>	COPYRIGHT	YES	
<input checked="" type="checkbox"/>	DESCRIPTION	My own title for table with subar...	
<input type="checkbox"/>	TITLE	Contentstext by var1stub, var2st...	Migration by region, sex, period,...
<input type="checkbox"/>	CONTENTS	Contentstext	Migration
<input type="checkbox"/>	DATABASE	database	SDB
<input type="checkbox"/>	SOURCE	Source name	Statistics Sweden
<input type="checkbox"/>	INFOFILE	infofile	BE0101
<input checked="" type="checkbox"/>	NOTEX	Mandatory table note	
<input checked="" type="checkbox"/>	NOTE	Optional table note	
<input checked="" type="checkbox"/>	DATASYMBOL1	one	
<input checked="" type="checkbox"/>	DATASYMBOL2	two	
<input checked="" type="checkbox"/>	DATASYMBOL3	three	
<input checked="" type="checkbox"/>	DATASYMBOL4	four	
<input checked="" type="checkbox"/>	DATASYMBOL5	five	
<input checked="" type="checkbox"/>	DATASYMBOL6	six	

☐ Combine notes

Cell keywords Fetch Close

- **Import** button makes it easy to get keyword values from other px-files
 - the *Edit/Import keywords*, *Edit/Import from* (already opened tables) selections, and **Ctrl+i** shortcut also work
- Viable keywords are **pre-selected**
- Value lists may be compared by clicking the green fields
- Other field content may be inspected by clicking the field

Keywords: set

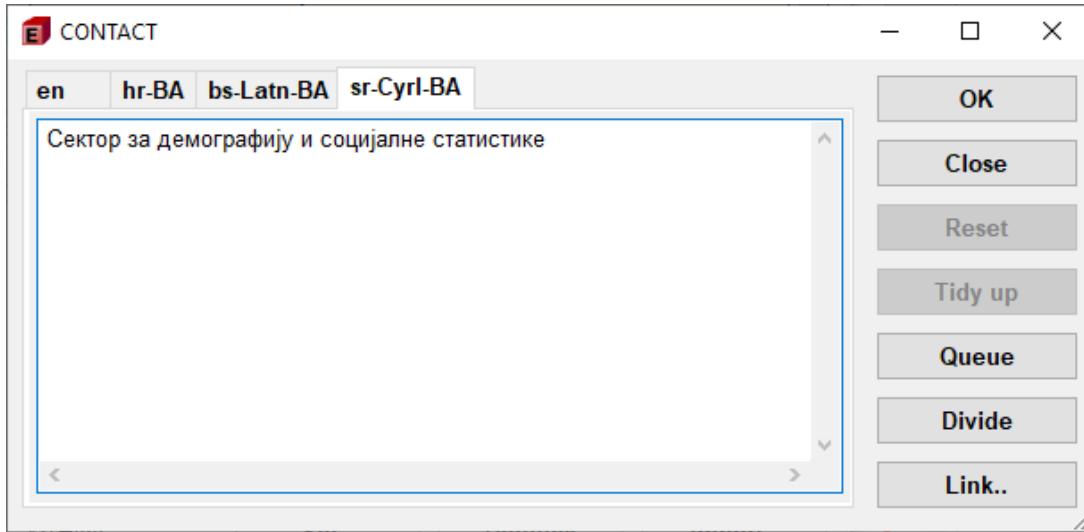


	keyword	new value	old value
<input type="checkbox"/>	CHARSET	ANSI	
<input type="checkbox"/>	AXIS-VERSION	2006	2013
<input type="checkbox"/>	LANGUAGE	en	fi
<input type="checkbox"/>	DECIMALS	0	2
<input type="checkbox"/>	SHOWDECIMALS		0
<input type="checkbox"/>	MATRIX	BE0101F1	
<input type="checkbox"/>	SUBJECT-CODE	BE	
<input type="checkbox"/>	SUBJECT-AREA	Population	
<input type="checkbox"/>	CONTENTS	Migration	
<input type="checkbox"/>	CONTENTS[en]	Migration	
<input type="checkbox"/>	UNITS	number	
<input type="checkbox"/>	CONTVARIABLE	type	
<input type="checkbox"/>	DATABASE	SDB	StatFin
<input type="checkbox"/>	SOURCE	Statistics Sweden	Tilastokeskus
<input type="checkbox"/>	SOURCE[en]	Statistics Sweden	Statistics Finland
<input type="checkbox"/>	INFOFILE	BE0101	
<input type="checkbox"/>	hourminute		08:00

Save Close

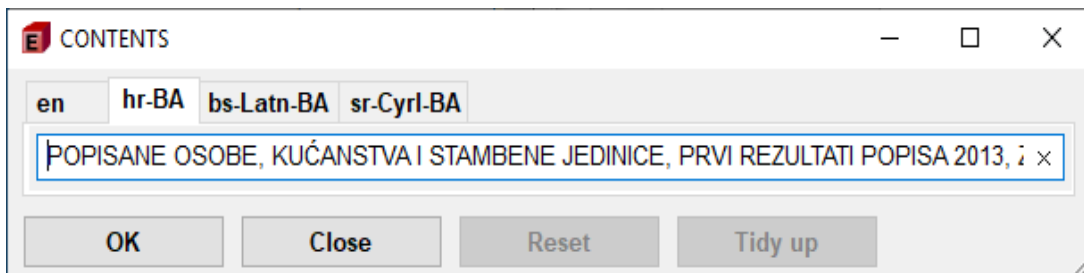
- **Set** button opens the **default** value control window
- Default values in use are in the rightmost column and the values from the active table are to the left
- Personal default values may be changed by marking the corresponding check boxes and pressing the **Save** button

Keywords: text input



- Multiline input window

- separate sheets are available for different languages
- clipboard support
- line lengths may be adjusted according to the input field width (**Divide**)
- all lines may be joined as one (**Queue**)
- www links may be edited with a separate window (**Link**)

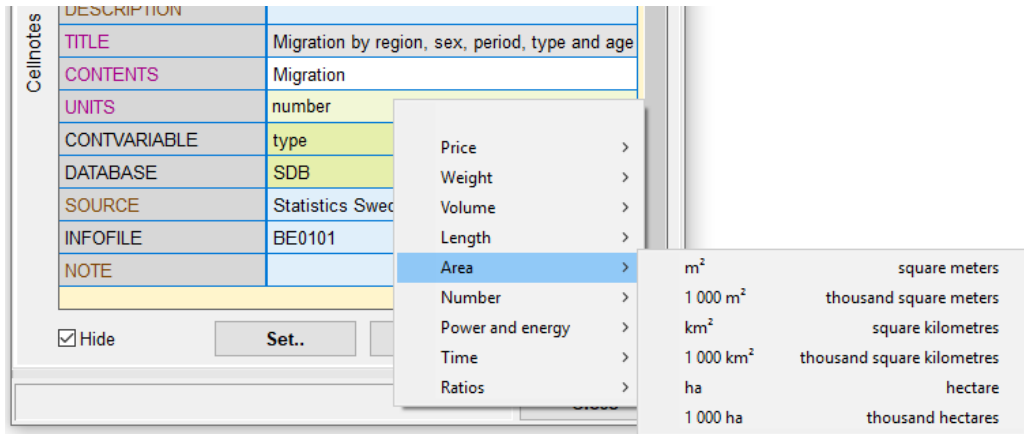
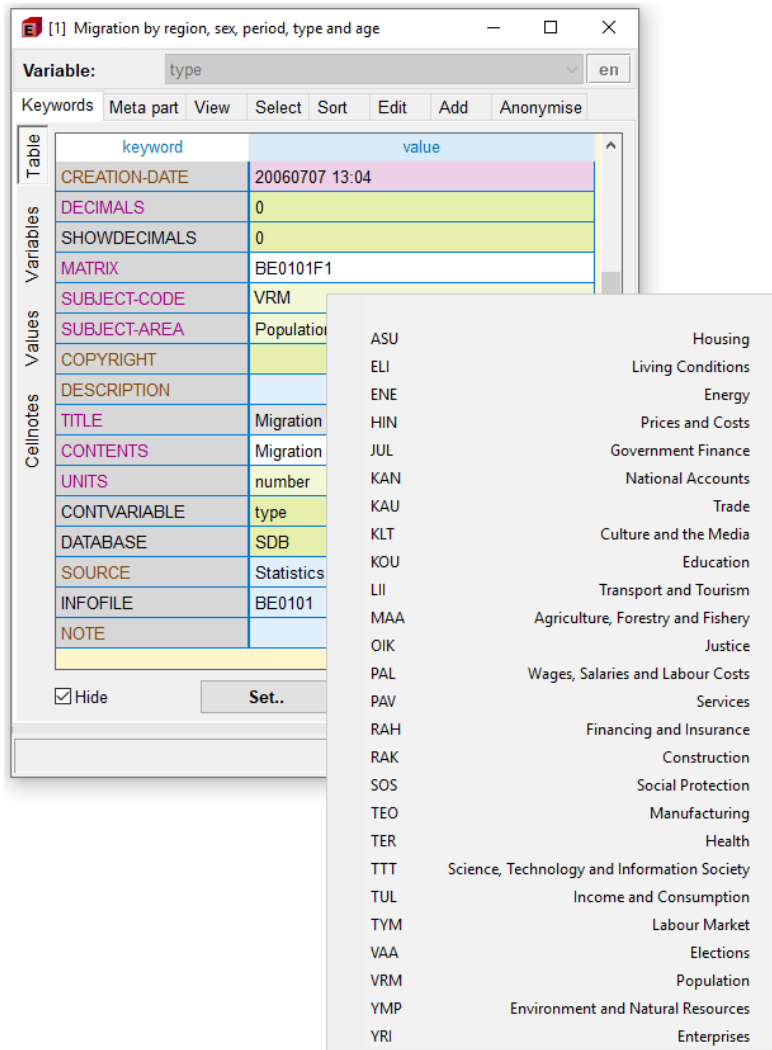


- Single line input

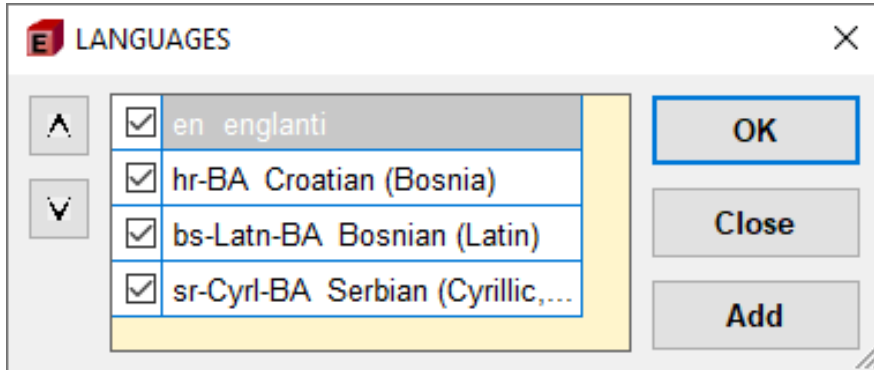
- double-clicking the field gives a similar resizable input window

Keywords: menus

- Popup menus
 - a few alternatives
 - may contain sub-menus
 - large lists will be split to sub-menus

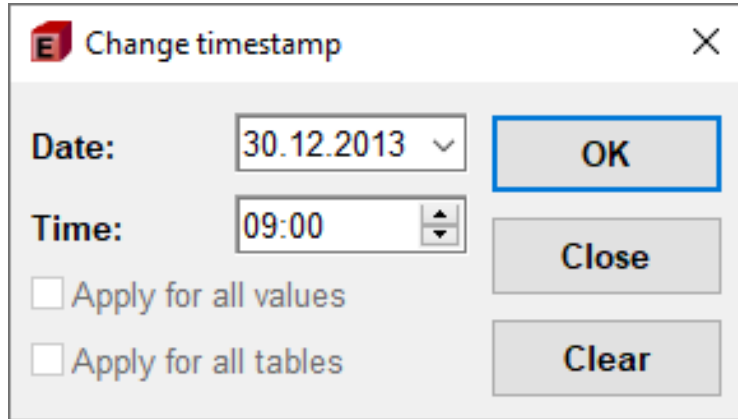


Keywords: *LANGUAGES*



- Multilingual table languages may be added and handled via the *LANGUAGES* keyword field
 - the first language is the **main** language
 - the selected languages will be the selection for the *LANGUAGE* field

Keywords: other special input windows



Change timestamp

Date: 30.12.2013

Time: 09:00

☐ Apply for all values

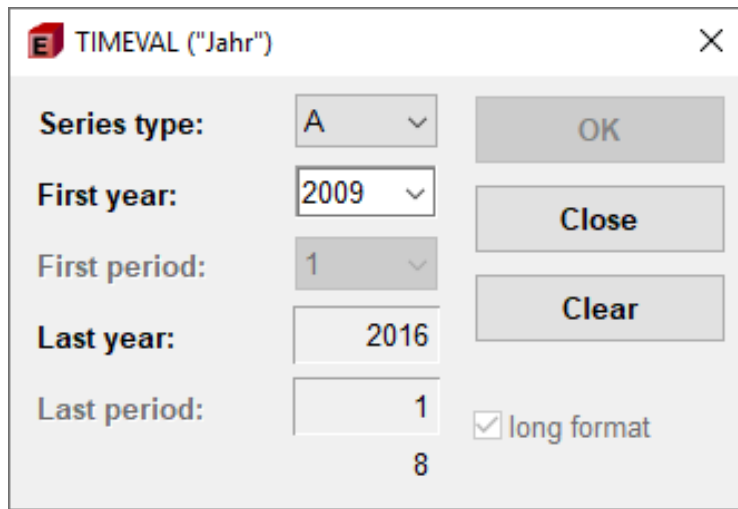
☐ Apply for all tables

OK

Close

Clear

- Date and time input
 - date may be chosen from a calendar
 - a special input field for time stamps



TIMEVAL ("Jahr")

Series type: A

First year: 2009

First period: 1

Last year: 2016

Last period: 1

☒ long format

OK

Close

Clear

- *TIMEVAL* input via a special window
 - five different series types
 - two keyword formats

Keywords: variable-specific keywords

[3] Description Migration by region, age, period, type and sex

Variable: region en

Keywords Meta part View Select Sort Edit Add Anonymise

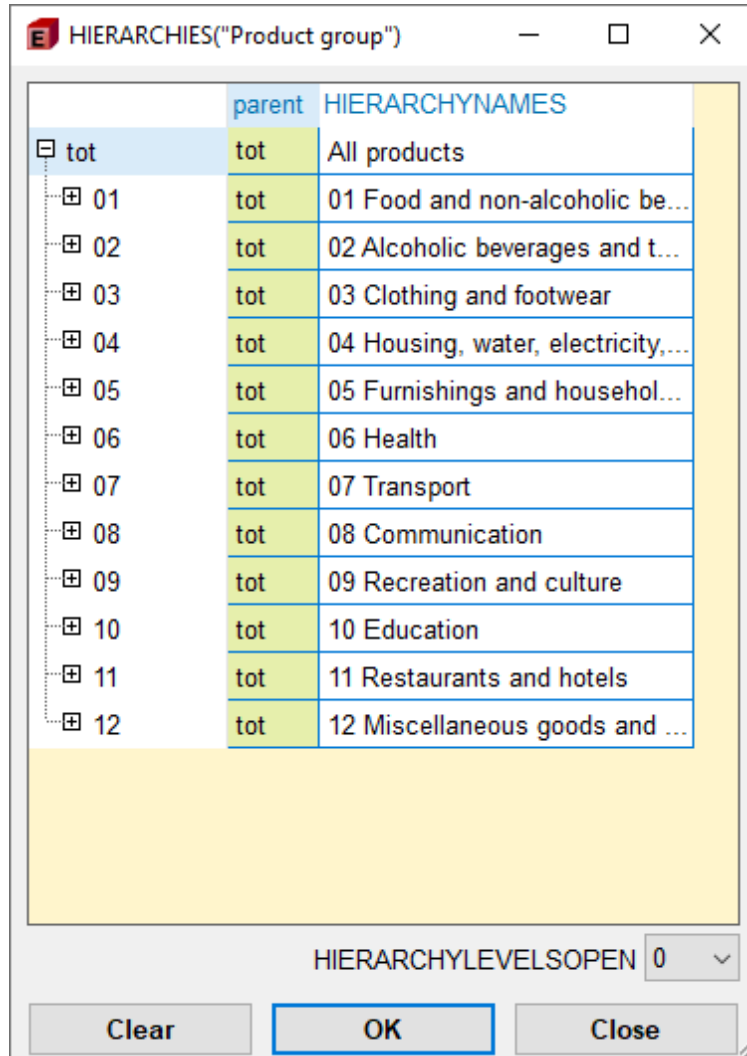
keyword	region	age
TIMEVAL		
PRETEXT	1	
DOMAIN	region1999/2003	age
VARIABLE-TYPE		
HIERARCHIES		
MAP	Sweden	
ELIMINATION	00 Sweden	
META-ID		
NOTEX	Mandatory footnote for re...	Mandatory footnot
NOTE	Since 1 January 1999, a ...	Age refers to age
DATANOTE		

Set.. Defaults Import..

Close

- Keyword fields are presented as a table
- Each table variable is in a different column
- Some keywords may exist only in one variable (e.g. *MAP*)
- Clicking the *HIERARCHIES* field will open a separate window

Hierarchies



- The *Hierarchies* window is mainly meant for showing the existing value hierarchy, but it has (limited) functionality to change the existing one
 - ordering and selections are reflected to the hierarchy keywords
 - hierarchies may be changed via parent menus

Keywords: value-specific keywords

[5] Migration by region, age, sex, period and type

Variable: type en

Keywords Meta part View Select Sort Edit Add Anonymise

	value	PRECISION	LAST-U...	STOCK...	UNITS
Inmigrated			200602...	F	number
Outmigrated			200602...	F	number
Immigrants			200602...	F	number
Emigrants			200602...	F	number
Excess of migration			200602...	F	number
Excess of Immigration			200602...	F	number
Internal immigrated			200602...	F	number
Internal outmigrated			200602...	F	number
Internal excess of migration			200602...	F	number

PRECISION Set.. Defaults Import..

Close

- The variable selection drop-down list is used in every sub-window
- If *CONTVARIABLE* is in use, this sheet will show extra keyword columns for the corresponding variable
 - they **disappear** from the table-specific keyword window (except *UNITS*)
- Set *PRECISIONs* automatically
 - the **biggest** number of decimals is used for the new *PRECISION* (if not greater than *DECIMALS*)

Keywords: cell-specific keywords

[10-001] Население, пятилетние возрастные группы по С... — □ ×

Variable: Возраст ru

Keywords Meta part View Select Sort Edit Add Anonymise

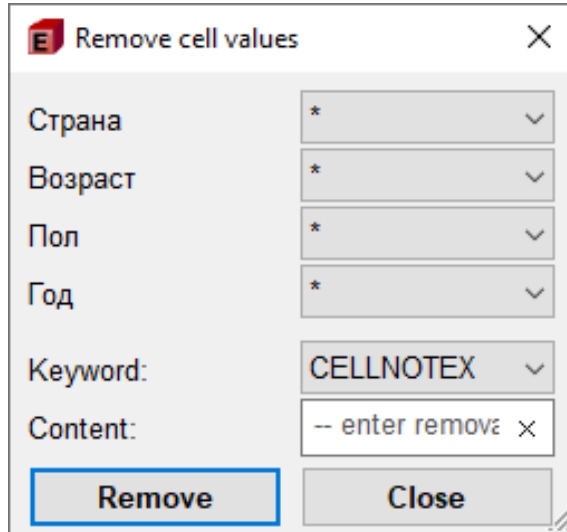
Страна	Возраст	Пол	Год	CELLNOTE ^
....Кипр	*	*	*	1980 refer to 1982 ; Age gro
....Грузия	*	*	*	1990/1995 - Break in series:
....Германия	*	*	*	2003: Age group 90-94 refers
....Венгрия	*	*	*	Age group 90-94 refers to 90
....Ирландия	*	*	*	1980: Age group 85-89 refer
....Израиль	*	*	*	1980: data refer to 31 Decen
....Казахстан	*	*	*	1990-2002: Age group 75-79
....Кыргызстан	*	*	*	2002: Age group 75-79 refer
....Португалия	*	*	*	Up to 2002: age group 85-89
....Республик...	*	*	*	1995/2000 - break in series:
....Румыния	*	*	*	From 1980 to 2000: Age gro
....Словения	*	*	*	Data in age group 85-89 refe
....Турция	*	*	*	1980: data refer to 12 Octob
....Туркменис...	*	*	*	Age group 75-79 refers to 75
....Украина	*	*	*	1980: data refer to 1979. 19
....Узбекистан	*	*	*	Age group 75-79 refers to 75

23 Remove..

Close

- The *Cellnotes* sheet is used for cell-specific keyword input
- The values for each variable are selected from the value lists (* denotes all values)
- An extra row is added when necessary
- If there are plenty of cell-specific keywords, the **Remove** button will activate

Deleting cell-specific keywords



Remove cell values

Страна *

Возраст *

Пол *

Год *

Keyword: CELLNOTEX

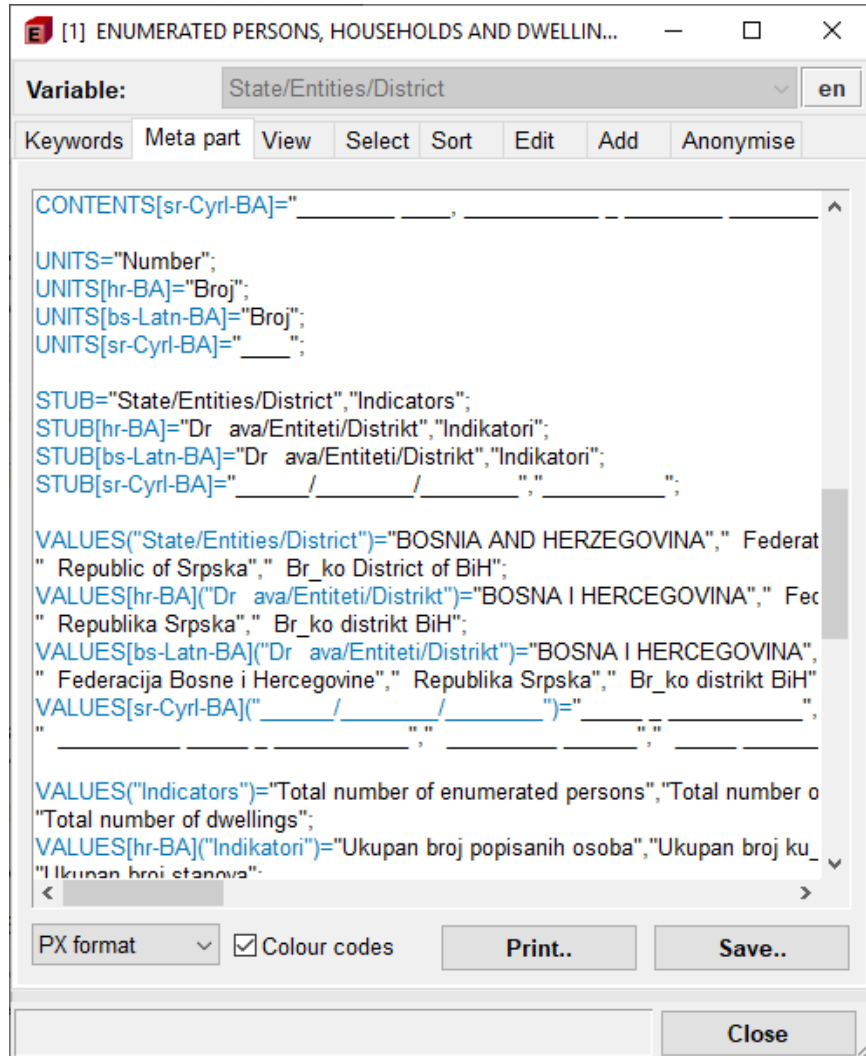
Content: -- enter remove x

Remove Close

- The *Remove* window makes it possible to remove groups of cell-specific keywords permanently
- Keyword removing **cannot** be undone

Metadata editor: Meta part

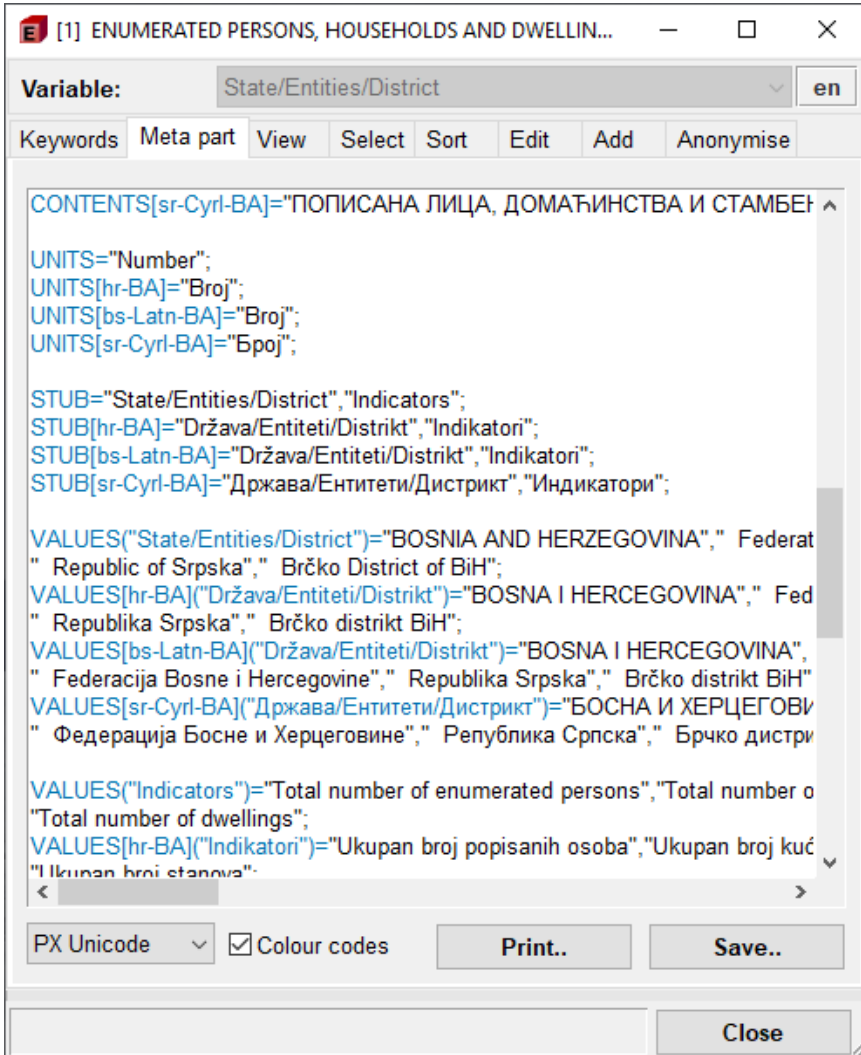
Meta part Tab



- The file structure will be shown as it would be saved in the file
 - the standard keyword order
 - no data part
 - empty lines between keywords
 - *KEYS* values are not necessarily the same as they would be when saved
 - if there are characters which cannot be converted from Unicode to WinANSI, they will be shown as underscores
- Clipboard and printing is supported
- May be saved as a metadata file (pxk)

Meta part: PX/Unicode

- The file structure shown in Unicode




The screenshot shows a software window titled "[1] ENUMERATED PERSONS, HOUSEHOLDS AND DWELLINGS...". It features a "Variable:" dropdown set to "State/Entities/District" and a language selector set to "en". Below this is a menu bar with options: Keywords, Meta part, View, Select, Sort, Edit, Add, and Anonymise. The main text area contains the following code:

```
CONTENTS[sr-Cyrl-BA]="ПОПИСАНА ЛИЦА, ДОМАЋИНСТВА И СТАМБЕН  
UNITS="Number";  
UNITS[hr-BA]="Broj";  
UNITS[bs-Latn-BA]="Broj";  
UNITS[sr-Cyrl-BA]="Број";  
  
STUB="State/Entities/District","Indicators";  
STUB[hr-BA]="Država/Entiteti/Distrikt","Indikatori";  
STUB[bs-Latn-BA]="Država/Entiteti/Distrikt","Indikatori";  
STUB[sr-Cyrl-BA]="Држава/Ентитети/Дистрикт","Индикатори";  
  
VALUES("State/Entities/District")="BOSNIA AND HERZEGOVINA"," Federat  
" Republic of Srpska"," Brčko District of BiH";  
VALUES[hr-BA]("Država/Entiteti/Distrikt")="BOSNA I HERCEGOVINA"," Fed  
" Republika Srpska"," Brčko distrikt BiH";  
VALUES[bs-Latn-BA]("Država/Entiteti/Distrikt")="BOSNA I HERCEGOVINA",  
" Federacija Bosne i Hercegovine"," Republika Srpska"," Brčko distrikt BiH"  
VALUES[sr-Cyrl-BA]("Држава/Ентитети/Дистрикт")="БОСНА И ХЕРЦЕГОВИ  
" Федерација Босне и Херцеговине"," Република Српска"," Брчко дистри  
  
VALUES("Indicators")="Total number of enumerated persons","Total number o  
"Total number of dwellings";  
VALUES[hr-BA]("Indikatori")="Ukupan broj popisanih osoba","Ukupan broj kuć  
"Ukupan broj stanova";
```

At the bottom, there is a "PX Unicode" dropdown, a checked "Colour codes" checkbox, and buttons for "Print..", "Save..", and "Close".

Meta part: XML

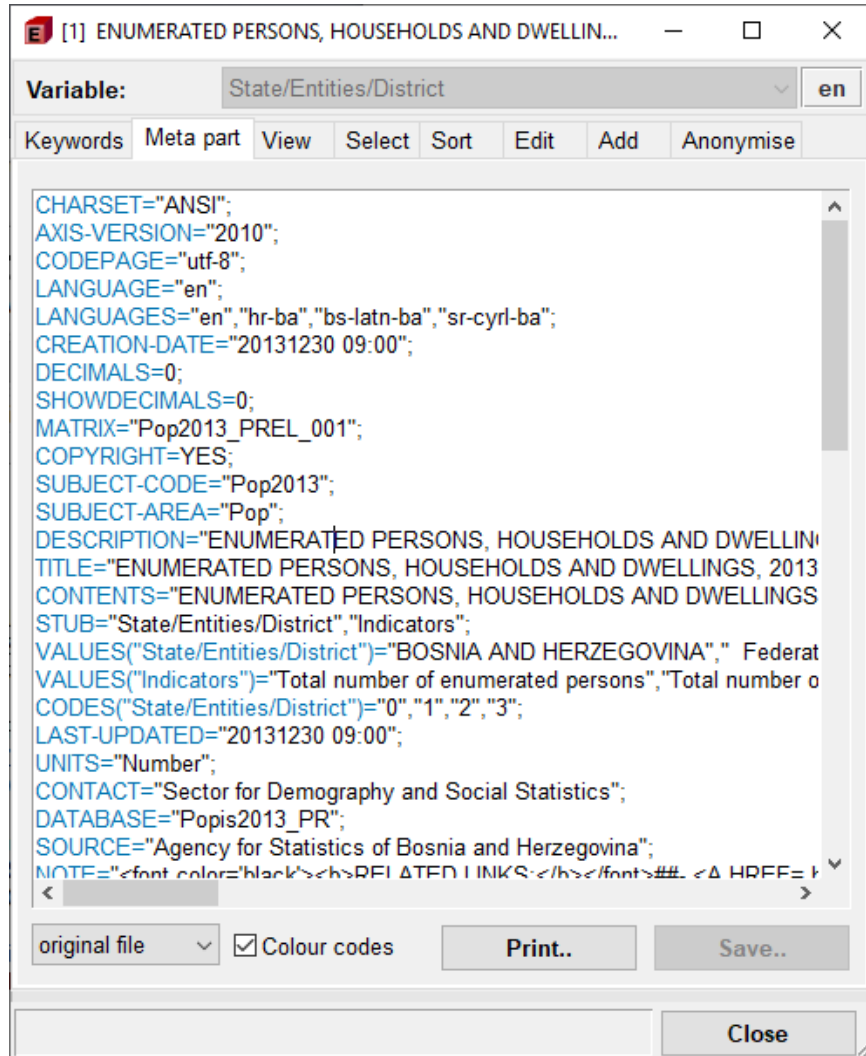


```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE statinfo_xdf PUBLIC "-//COSSI/DTD STATINFO_XDF 1.0//EN"
"xdf.dtd">
<statinfo_xdf>
  <tabletitlegrp tableIdRef="meta">
    <tabletitle xml:lang="en"><tablemaintitle>ENUMERATED PERSONS,
HOUSEHOLDS AND DWELLINGS, 2013 CENSUS FIRST RESULTS, FOR
BOSNIA AND HERZEGOVINA, ENTITIES AND BRČKO DISTRICT OF BIH
</tablemaintitle></tabletitle>
    <tabletitle xml:lang="hr-BA"><tablemaintitle>POPIŠANE OSOBE,
KUĆANSTVA I STAMBENE JEDINICE, PRVI REZULTATI POPIŠA 2013, ZA
BOSNU I HERCEGOVINU, ENTITETE I BRČKO DISTRIKT BIH
</tablemaintitle></tabletitle>
    <tabletitle xml:lang="bs-Latn-BA"><tablemaintitle>POPIŠANE OSOBE,
DOMAĆINSTVA I STAMBENE JEDINICE, PRVI REZULTATI POPIŠA 2013,
ZA BOSNU I HERCEGOVINU, ENTITETE I BRČKO DISTRIKT BIH
</tablemaintitle></tabletitle>
    <tabletitle xml:lang="sr-Cyrl-BA"><tablemaintitle>ПОПИСАНА ЛИЦА,
ДОМАЋИНСТВА И СТАМБЕНЕ ЈЕДИНИЦЕ, ПРВИ РЕЗУЛТАТИ ПОПИСА
2013, ЗА БОСНУ И ХЕРЦЕГОВИНУ, ЕНТИТЕТЕ И БРЧКО ДИСТРИКТ
БИХ</tablemaintitle></tabletitle>
  </tabletitlegrp>

  <docmeta>
    <subjectgrp>
      <subject xml:lang="en">Pop</subject>
    </subjectgrp>
  </docmeta>
</statinfo_xdf>
```

- The XML selections show the meta part in the different *CoSSI/XML* formats
 - no data part
 - tagged sections are indented
 - syntax highlighting with colour coding
 - creating the XML format may be time consuming with big tables (especially with the *CalS* format)
- May be saved as a text file (txt)

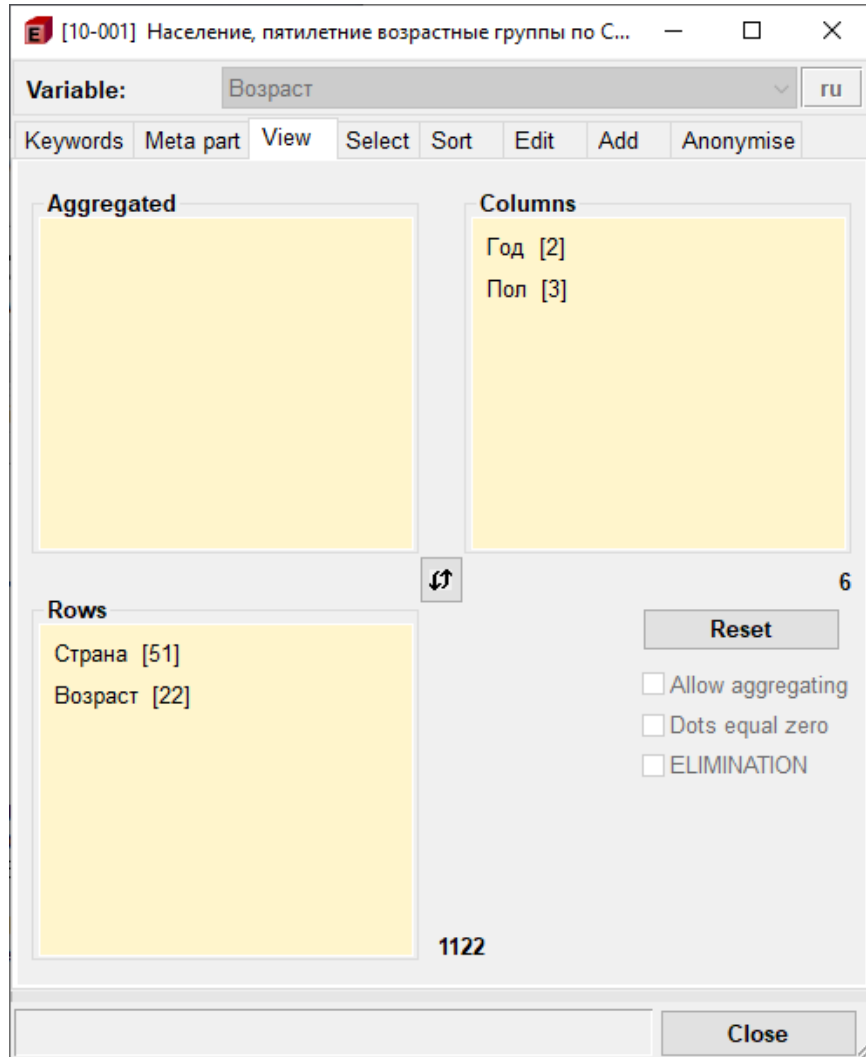
Meta part: the original file



- The meta part in the file selection shows the meta part as it is in the original file
 - no extra formatting
 - valid only when the file exists

Metadata editor: View

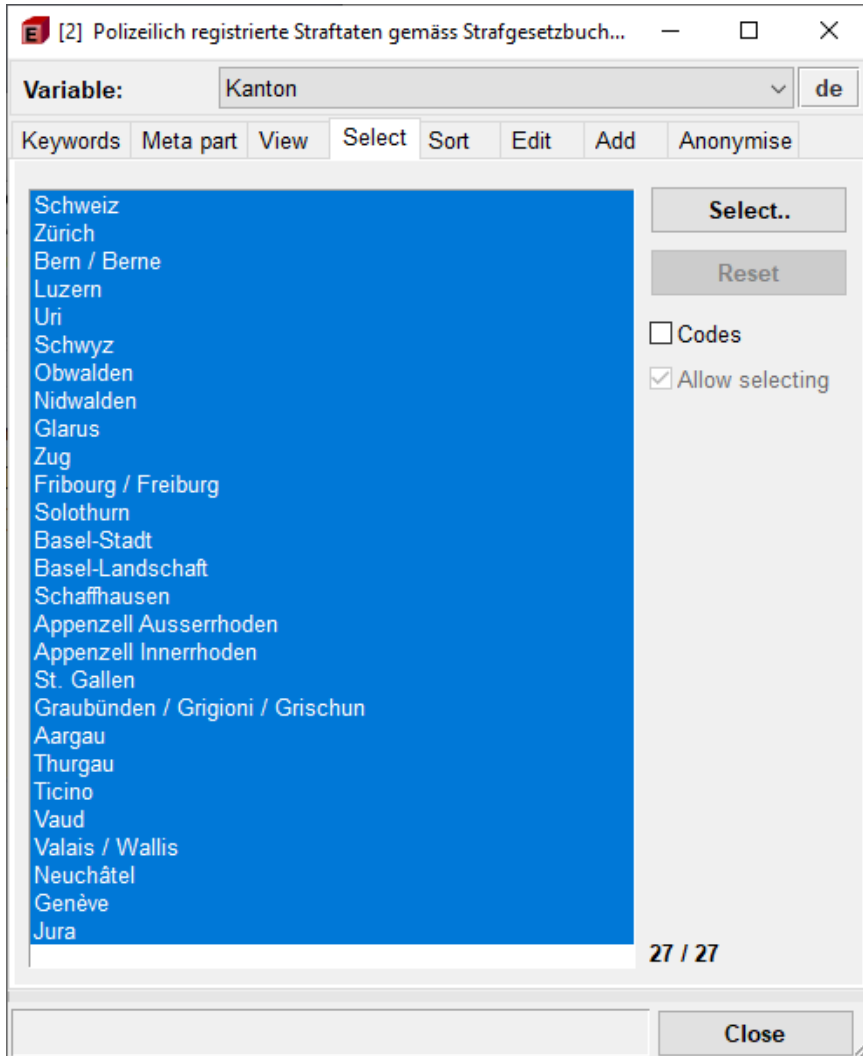
View Tab



- Rearrange variables freely
- Aggregation (sum over)
- Special cases
 - dot codes calculation rule
 - *ELIMINATION* settings
- Aggregation prevents some actions (e.g. cell editing)
 - *Edit/Clone View* may help if necessary

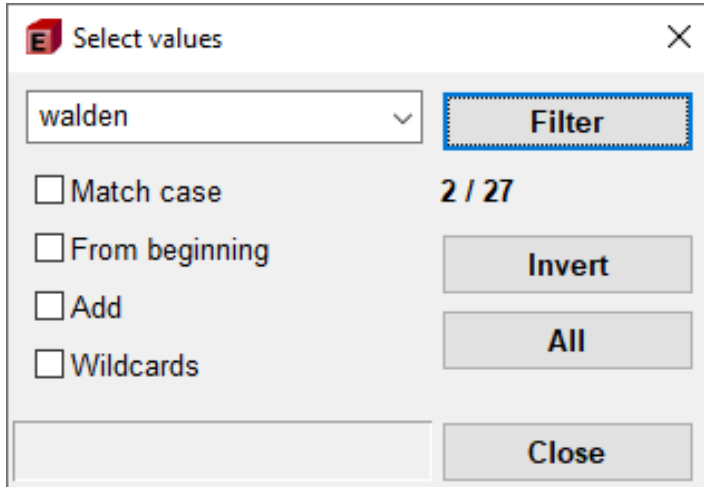
Metadata editor: Select

Select Tab



- Freely select values of any variable ("slicing the cube")
 - the selections affect e.g. data masking
- The **Select** button opens a specific list filter window
- Pressing any character will select all the lines which start with the same character (case sensitive)
 - selections are cumulative
 - **Alt+character** is non-inclusive
 - **Ctrl+a** selects all values
 - **Ctrl+i** inverts the selections

Filtering window



- Long lists are difficult to handle with mouse operations
- The *Filter* window makes it possible to select items from the list based on
 - text string in the text
 - text string starting the text
 - text string with **wildcards** (* and ?)
 - **cumulative** selections
 - **inverse** selections

Metadata editor: Sort

Sort Tab

Variable: Straftat de

Keywords Meta part View Select Sort Edit Add Anonymise

Source New order OK

Tötungsdelikte (Art. 111) Straftaten - Total Select..

Tötung auf Verlangen (Art. 112) Reset

Verleitung/Beihilfe zum

Fahrlässige Tötung (Art. 113)

Strafbarer Schwangerschaftsabbruch

Übertretungen durch Ärztinnen

Schwere Körperverletzung

Einfache Körperverletzung

Verstümmelung weiblich

Fahrlässige Körperverletzung

Tätlichkeiten (Art. 126)

Aussetzung (Art. 127)

Unterlassung der Nothilfe

Falscher Alarm (Art. 128)

Gefährdung des Lebens

Beteiligung an Straftaten

1 / 255 / 256 1 / 1 / 256

variable	value
Jahr	2009
Kanton	Schweiz
Straftat	
Ausführungsgrad	Ausführungsgrad - Total

Close

- Freely rearrange values of any variable
 - alphabetical sorting
 - numeric codes sorted by value
 - only the selected lines are sorted
 - the whole list may be selected by clicking its header
 - manually move selected lines
- The **Select** button opens the *Filter* window
- Remember the **OK** button!

Sort: data sort

Variable: Straftat de

Keywords Meta part View Select Sort Edit Add Anonymise

Source New order OK

553421 Straftaten - To
399470 Total 2. Titel: Y
74983 Total 4. Titel: F
64508 Sachbeschäd
63523 Sachbeschäd
59681 Diebstahl, ink
56030 Hausfriedensb
53933 Fahrzeugdiebs
51758 Einbruchdiebs
29340 Total 1. Titel: U
17318 Taschendiebst
16999 Ladendiebstah
15062 Fahrzeugeinbr
13596 Tötlichkeiten (I
12510 Einschleichdie
11686

Select.. Reset

☐ Codes
☒ Allow sorting
☐ Numeric sort
☒ Data sort

> >> 256 / 256 / 256 << < 0 / 0 / 256

variable	value
Jahr	2009
Kanton	Schweiz
Straftat	
Ausführungsgrad	Ausführungsgrad - Total

Close

- Sort by data

- select the fixed values from other variables
- the numeric values will be put in front of the value texts (or codes)
- the selected lines may be sorted according to these numeric values
- dot codes equal zero

Metadata editor: Edit

Edit Tab

text [51]	code [51]
Албания	008
Армения	051
Австрия	040
Азербайджан	031
Беларусь	112
Бельгия	056
Босния и Герцеговина	070
Болгария	100
Канада	124
Хорватия	191
Кипр	196
Чешская Республика	203
Дания	208
Эстония	233
Финляндия	246
Франция	250

- Rename variables and/or values
- Values and codes are shown in the list
 - the whole list may be selected by clicking its **header**
 - the header shows the number of **unique** lines
 - unselected values are greyed out
 - duplicated texts or codes are shown with a **yellow** background
 - it is possible to view only selected or repeated lines
- Remember the **OK** button!

Edit: value list

Variable: Страна

Keywords Meta part View Select Sort Edit Add Anonymise

Variable: Страна

	text [51]	code [51]
7	Албания	008
7	Армения	051
7	Австрия	040
11	Азербайджан	031
8	Беларусь	112
7	Бельгия	056
20	Босния и Герцеговина	070
8	Болгария	100
6	Канада	124
8	Хорватия	191
4	Кипр	196
18	Чешская Республика	203
5	Дания	208
7	Эстония	233
9	Финляндия	246
7	Франция	250

OK Select.. Reset

☒ all ☐ selected ☐ repeated

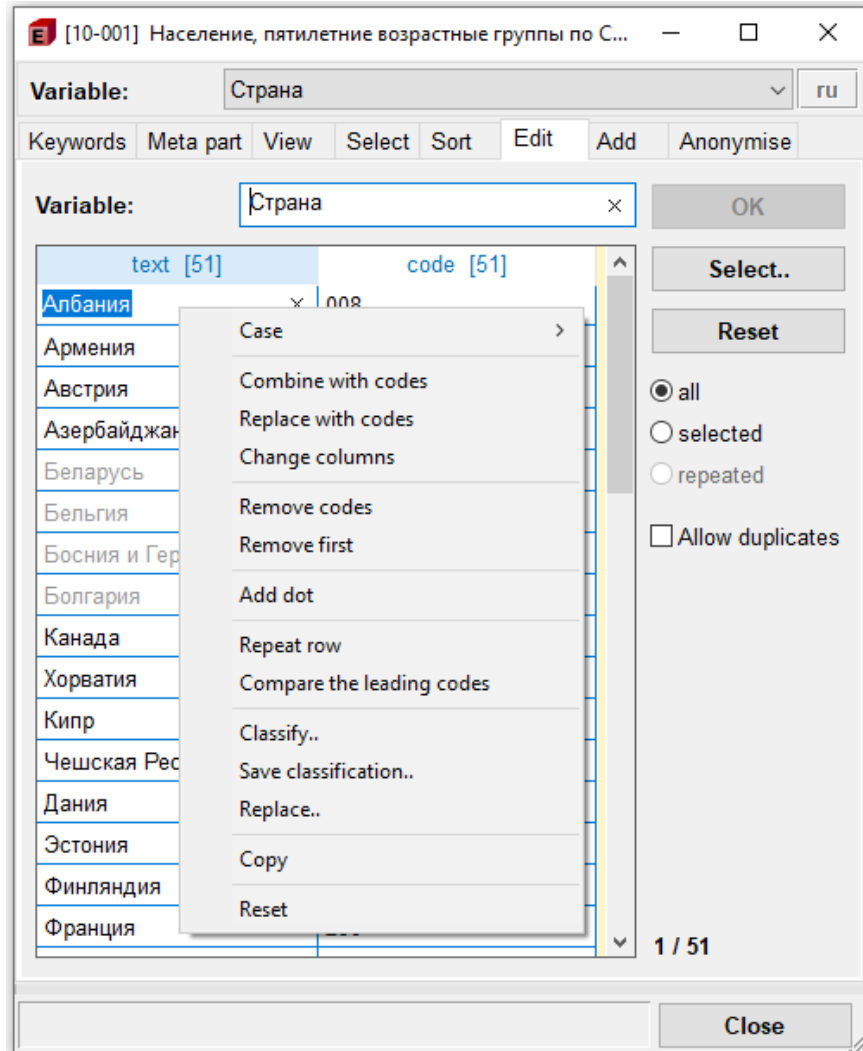
☐ Allow duplicates

1 / 51

Close

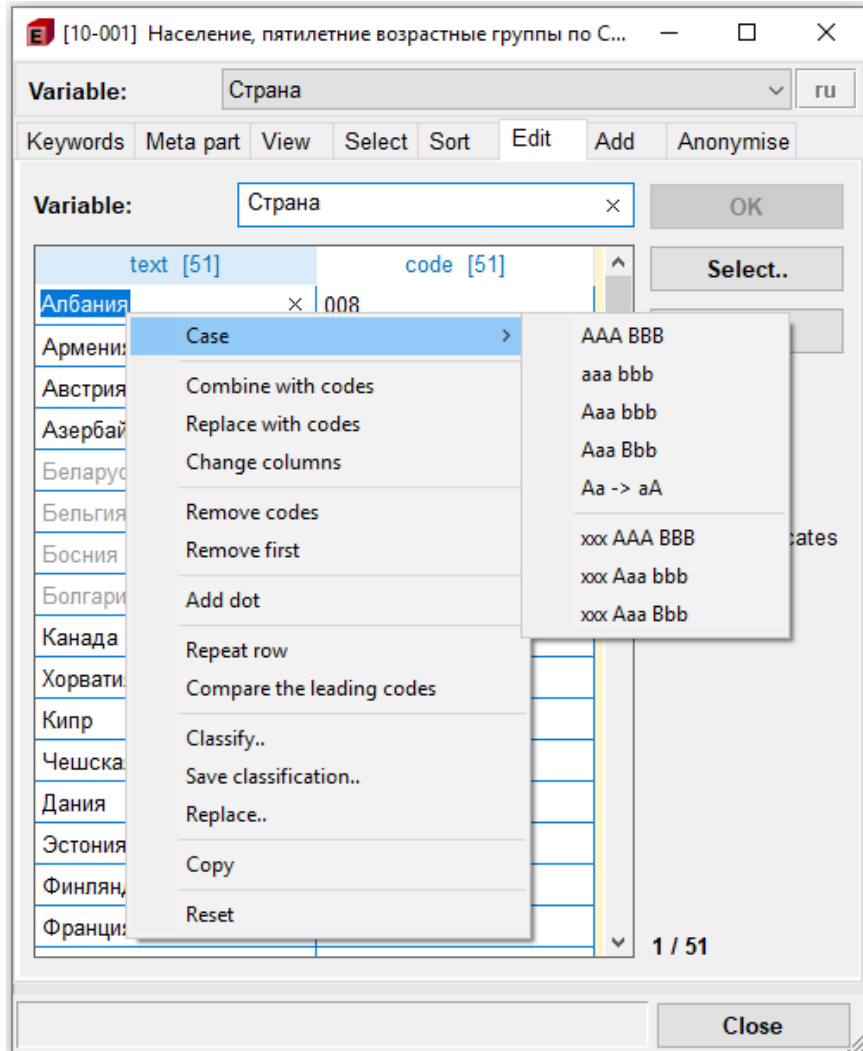
- Text lengths can be made visible by dragging the upper left area of the header
 - shown automatically if any length exceeds the pre-set limit
- The value or code menu opens by right-clicking
 - will show only **applicable** menu items

Edit: values menu /1



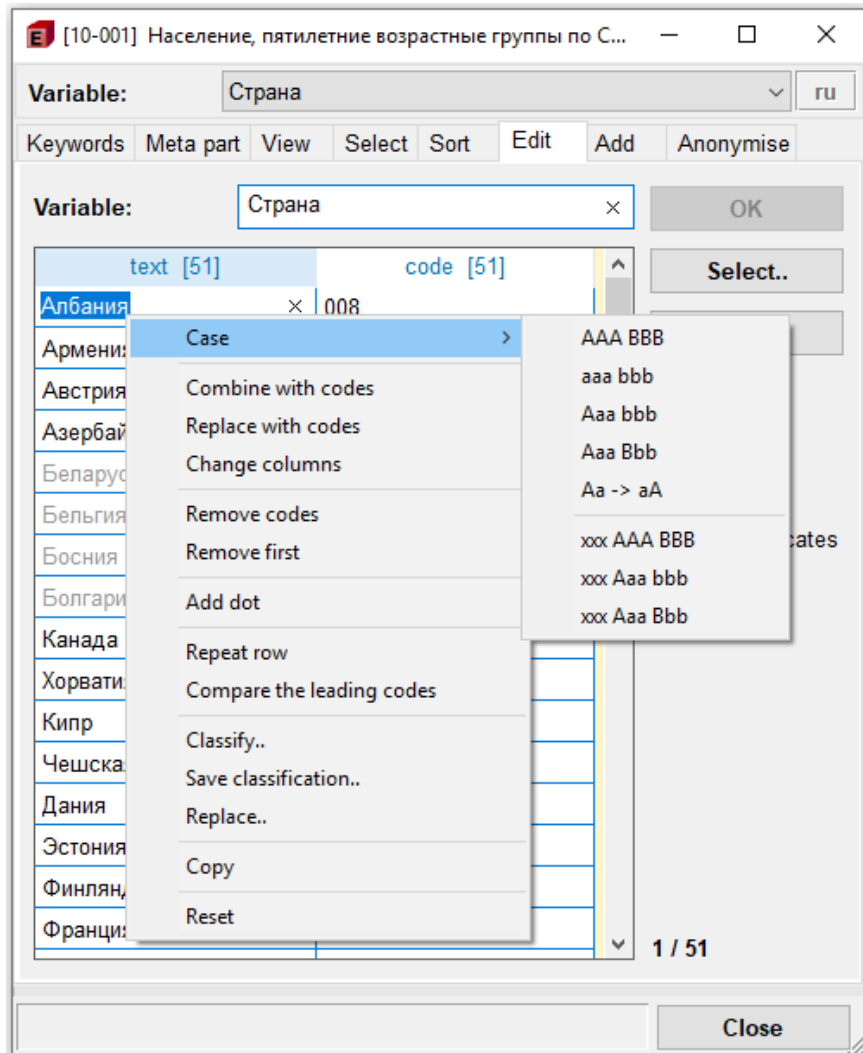
- Case sub-menu
 - character case changes
- Combine with codes
 - put codes in front of the texts separated with space
- Replace with codes
 - replace texts with corresponding codes
- Change columns
 - change texts to codes and vice versa
- Remove codes
 - remove the leading codes
- Remove first
 - remove the first character

Edit: case menu /1



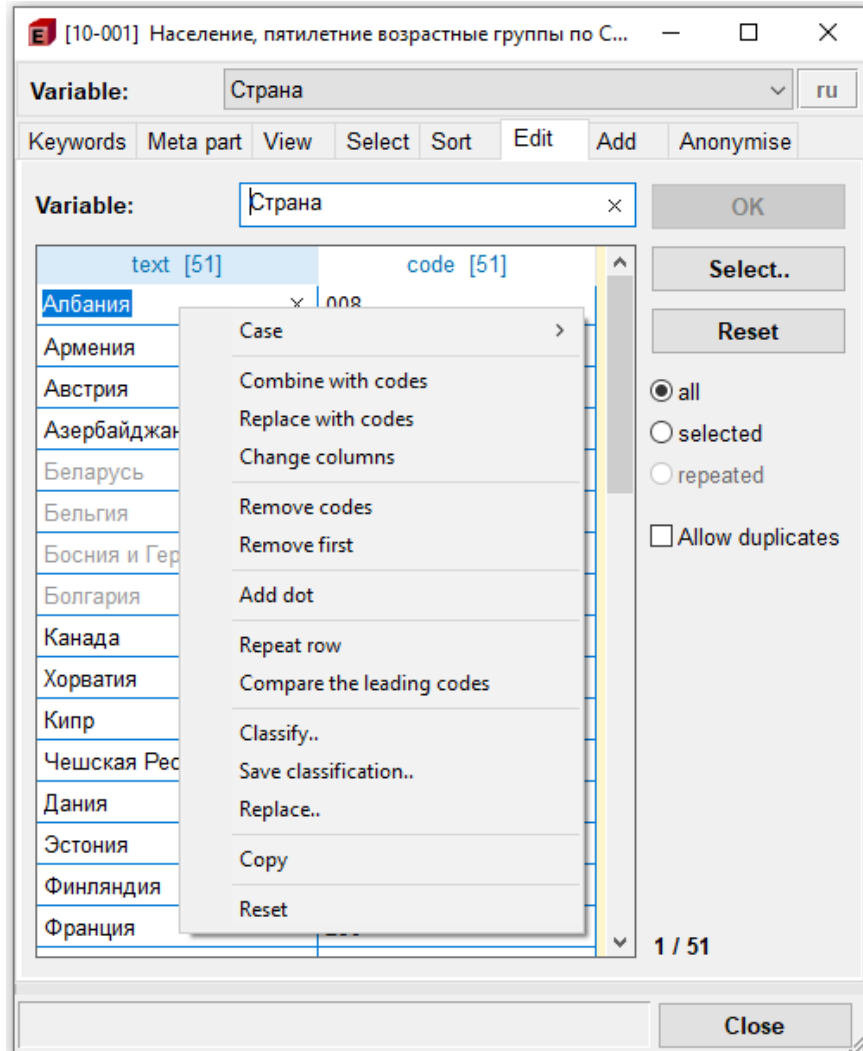
- AAA BBB
 - all uppercase
- aaa bbb
 - all lowercase
- Aaa bbb
 - capitalise (the first character in uppercase)
- Aaa Bbb
 - title-case (all the first characters in uppercase)
- Aaa – Bbb
 - all characters in lowercase except the first and the first letter of the first word after a dash

Edit: case menu /2



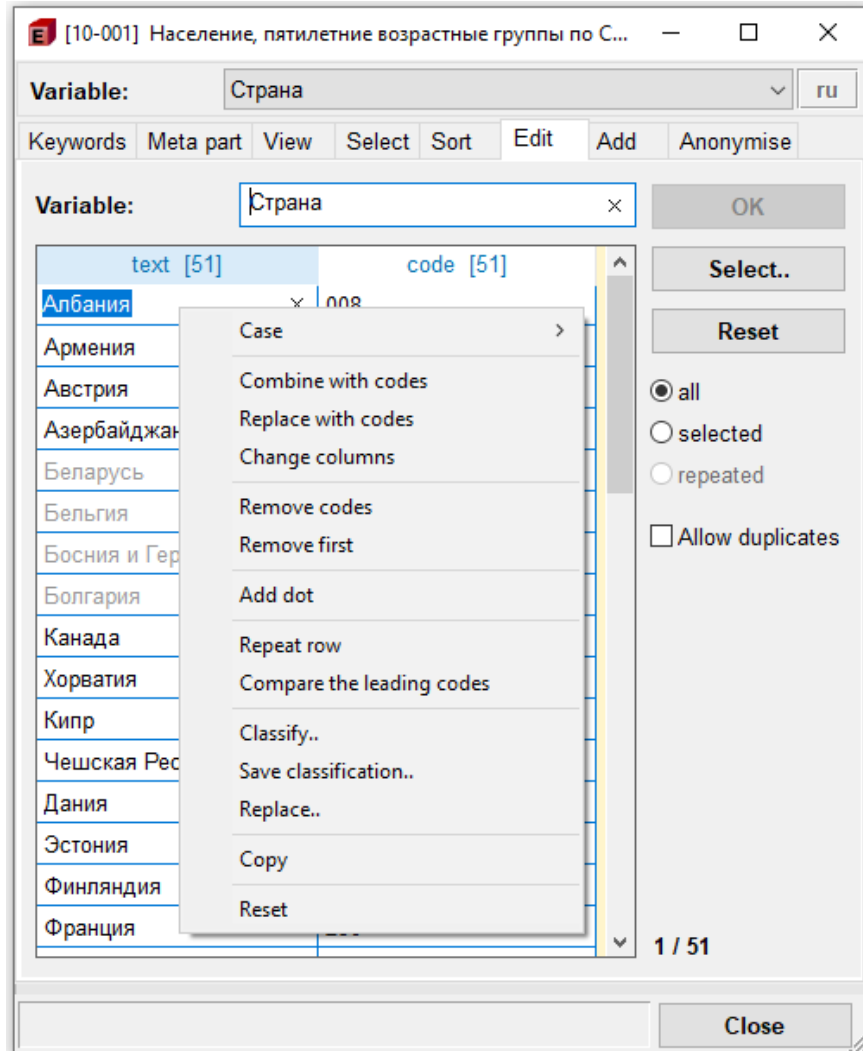
- -Aaa
 - the first character adjoined to dash in uppercase
- Aa -> aA
 - invert cases
- xxx AAA BBB
 - like *AAA BBB* but the leading code stays intact
- xxx Aaa bbb
 - like *Aaa bbb* but the leading code stays intact
- xxx Aaa Bbb
 - like *Aaa Bbb* but the leading code stays intact

Edit: values menu /2



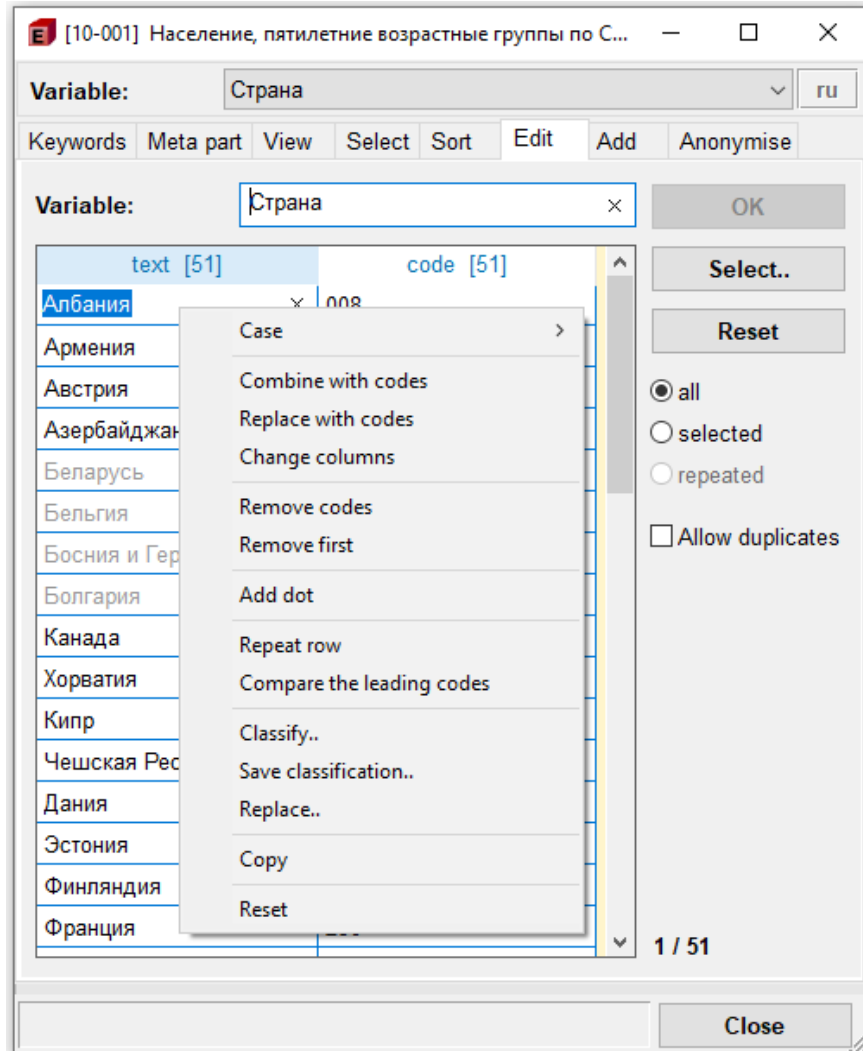
- Remove the leading blanks
 - drop the leading spaces
- Compress
 - compress successive blanks to one
- *Cut to the length* sub-menu
 - trim line length
- Add dot
 - add a dot in front of the selected lines
- Repeat row
 - replace the selected lines with the first selected line
- Compare the leading codes
 - bring the matching code to the first visible line

Edit: values menu /3



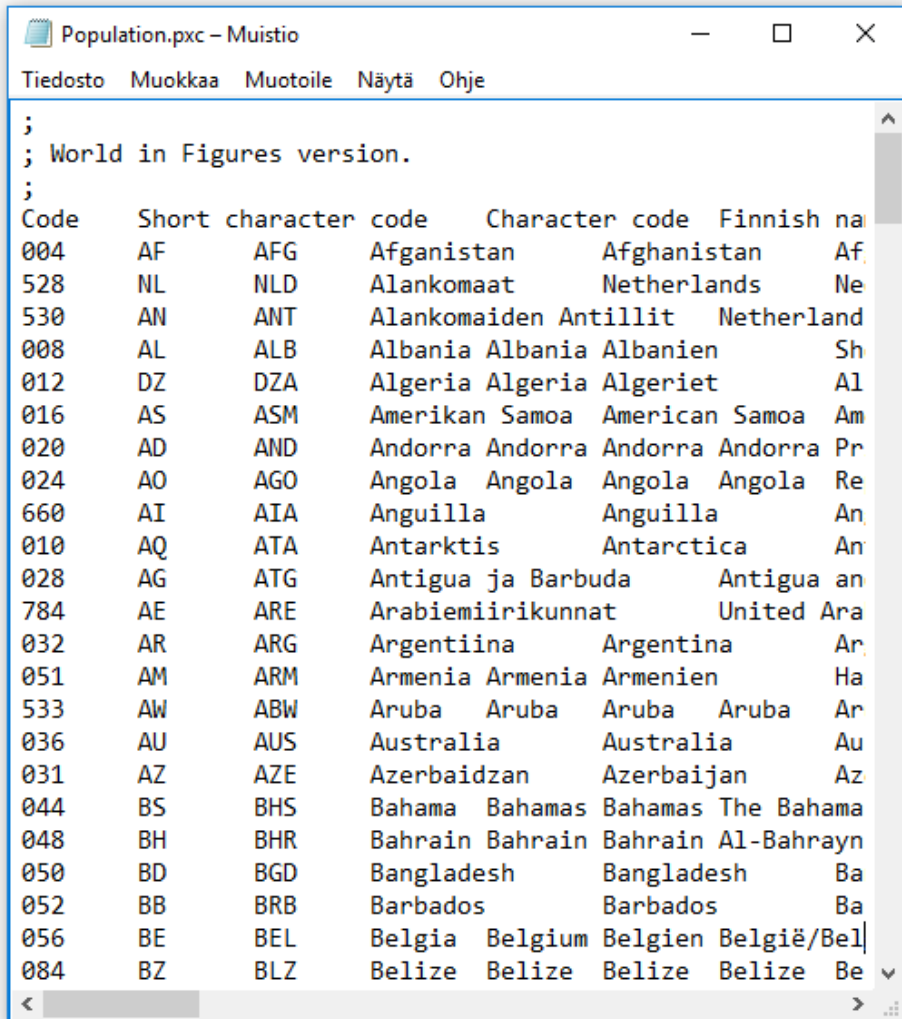
- Leading blanks to dots
 - change leading blanks to dots
- Leading dots to blanks
 - change leading dots to blanks
- Tabs to spaces
 - replace tab-characters to spaces
- Classify
 - standardise the value texts according to the codes
- **Save classification**
 - save the selected values to a classification file (pxc)
- Replace
 - change texts in all value texts

Edit: values menu /4



- Identity number
 - pick gender and age from the Finnish social security number
 - shown only when the values are valid IDs
- Copy
 - copy the selected lines to the clipboard
- Paste
 - paste the clipboard content to the texts
- Reset
 - switch back to the **original** value texts

Classification file



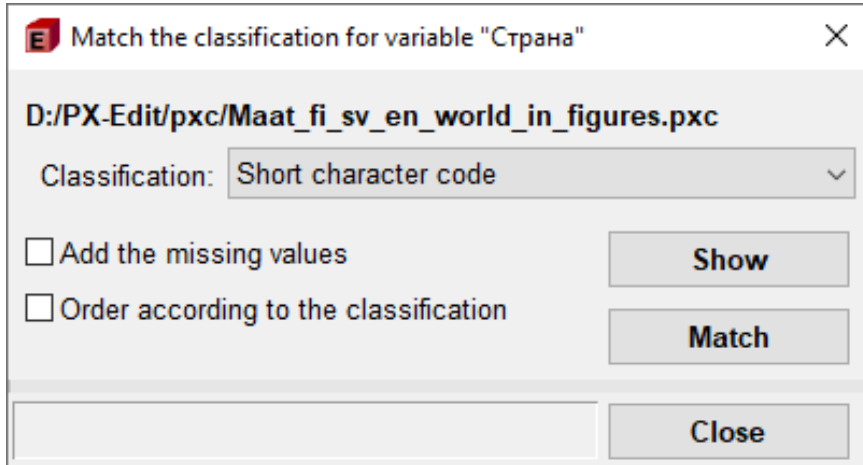
Population.pxc - Muistio

Tiedosto Muokkaa Muotoile Näytä Ohje

```
;
; World in Figures version.
;
Code      Short character code   Character code Finnish na
004      AF      AFG      Afganistan      Afghanistan Af
528      NL      NLD      Alankomaat      Netherlands Ne
530      AN      ANT      Alankomaiden Antillit  Netherland
008      AL      ALB      Albania Albania Albanien Sh
012      DZ      DZA      Algeria Algeria Algeriet Al
016      AS      ASM      Amerikan Samoa American Samoa Am
020      AD      AND      Andorra Andorra Andorra Andorra Pr
024      AO      AGO      Angola Angola Angola Angola Re
660      AI      AIA      Anguilla Anguilla Anguilla An
010      AQ      ATA      Antarktis Antarkctica An
028      AG      ATG      Antigua ja Barbuda Antigua an
784      AE      ARE      Arabiemiirikunnat United Ara
032      AR      ARG      Argentiina Argentina Ar
051      AM      ARM      Armenia Armenia Armenien Ha
533      AW      ABW      Aruba Aruba Aruba Aruba Ar
036      AU      AUS      Australia Australia Au
031      AZ      AZE      Azerbaidzan Azerbaijan Az
044      BS      BHS      Bahama Bahamas Bahamas The Bahama
048      BH      BHR      Bahrain Bahrain Bahrain Al-Bahrayn
050      BD      BGD      Bangladesh Bangladesh Ba
052      BB      BRB      Barbados Barbados Ba
056      BE      BEL      Belgia Belgium Belgien België/Bel
084      BZ      BLZ      Belize Belize Belize Belize Be
```

- File extension is pxc
- Every line is tab-delimited
- The first line contains column titles
- The first column contains the codes
- The next columns contain different classifications
- Comment lines start with a semicolon
 - shown in the classification window as hint bubbles

Classify window



- If the selection does not contain all the values, only the classification may be selected
 - the original classification file may be browsed by clicking the **Show** button
- If the whole variable is selected, it is possible to add all the classification values and/or rearrange the values according to the classification

Browsing the classification file



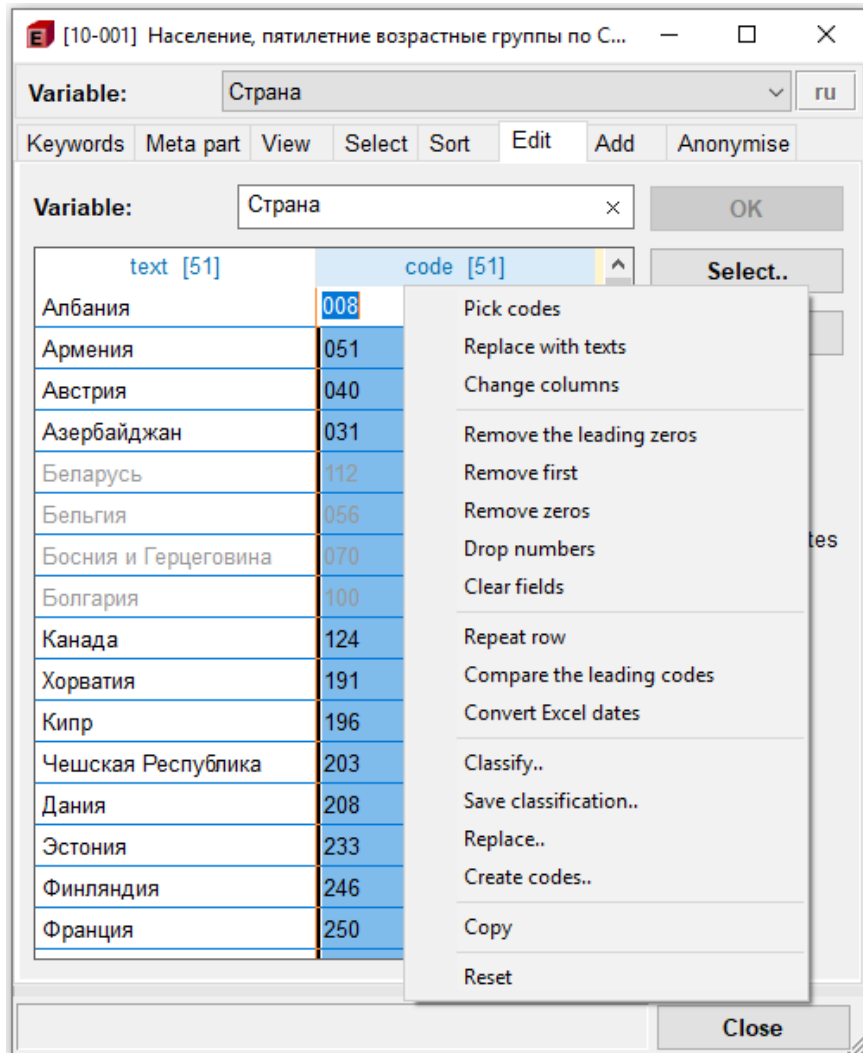
Maailma numeroina versio.

	Short character code	Character code	Finnish name
004	AF	AFG	Afganistan
528	NL	NLD	Alankomaat
530	AN	ANT	Alankomaiden Antillit
008	AL	ALB	Albania
012	DZ	DZA	Algeria
016	AS	ASM	Amerikan Samoa
020	AD	AND	Andorra
024	AO	AGO	Angola
660	AI	AIA	Anguilla
010	AQ	ATA	Antarktis
028	AG	ATG	Antigua ja Barbuda
784	AE	ARE	Arabiemiirikunnat
032	AR	ARG	Argentiina
051	AM	ARM	Armenia
533	AW	ABW	Aruba
036	AU	AUS	Australia
031	AZ	AZE	Azerbaidzan

Close

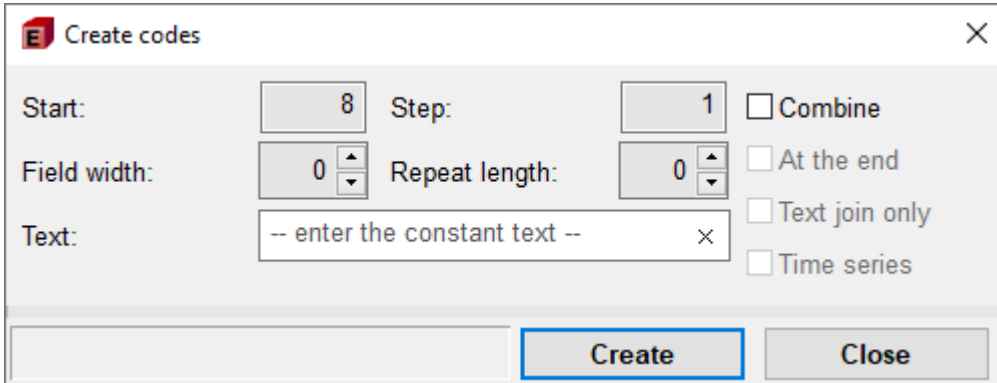
- The upper part shows any file comments
- The lower part shows the different classifications from the table
 - the column headers = the classification titles
 - the row headers = the codes

Edit: codes menu



- Pick codes
 - copy the leading codes from the texts
- Replace with texts
 - replace codes with corresponding texts
- Adjust leading zeros
 - if necessary, pad the selected codes to the same width with leading zeros
- Remove the leading zeros
 - drop all leading zeros
- Clear fields
 - empty the selected lines
- Classify
 - standardise codes according to the texts

Code creating



Create codes

Start: 8 Step: 1 ☐ Combine

Field width: 0 Repeat length: 0 ☐ At the end

Text: -- enter the constant text -- ☐ Text join only

☐ Time series

Create Close

- Create new numeric codes
 - only for selected rows
 - normal case: start: 1, step: 1 will create codes 1, 2, 3, ...
 - the codes will have the same length (i.e. if necessary, they are padded with leading zeros)
 - field width > 0 fixes the code width (if needed padding with leading zeros)
 - a fixed leading text may be used
 - the *Repeat length* setting cycles through the integers
 - *Time series* will be active if the current variable has *TIMEVAL* setting
 - selecting this overrides all other settings

Repeated value texts

[1] Retrospekt naselja za Zagrebačku županiju

Variable: Naselja hr

Keywords Meta part View Select Sort Edit Add Anonymise

Variable: Naselja

text [751]	code [697]
Bistrac	056421
Biškupec Zelinski	003123
Blaškovec	003310
Blaževdol	003441
Blaževdol Psarjevački	003441
Bobovec Rozganski	003573
Bobovica	003590
Bolč	003964
Bosna	004332
Božjakovina	004472
Braslovje	004618
Bratelji	004634
Bratina	004642
Brckovljani	004758
Brčevac	004766
Brdovec	004880

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Close

Buttons: OK, Select.., Reset, all (selected), selected, repeated, Allow duplicates (unchecked), Close

- All the value texts must be **unique**
 - px tables cannot function properly with repeated value texts or codes!
- PxEdit allows unique value text handling and code combinations (with nagging)
 - all repeated texts will be shown with the repeated radio button
 - the repeated text input needs to be allowed separately via the *Allow duplicates* check box (use with caution)
 - this activates the **OK** button

Metadata editor: Add

Add Tab

Variable: Kanton de

Keywords Meta part View Select Sort Edit Add Anonymise

New value

-- enter new value text -- Code: -- enter new -- Add empty

☐ Dots equal zero sum Aggregate

☐ Remove the aggregated v: Fill item: .. Calculator..

Basel-Stadt
Basel-Landschaft
Schaffhausen
Appenzell Ausserrhoden
Appenzell Innerrhoden
St. Gallen
Graubünden / Grigioni / Grischun
Aargau
Thurgau
Ticino
Vaud
Valais / Wallis
Neuchâtel
Genève

Select..

☐ Codes
☒ Selected

Remove

Fill

27 / 27

New variable

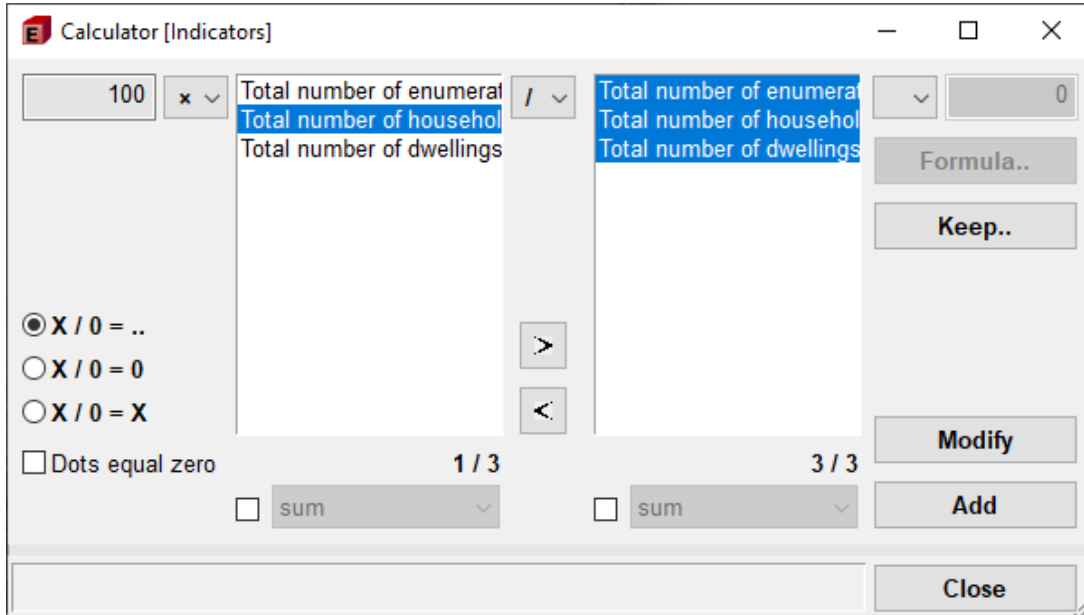
-- enter new variable -- Add

Value: -- enter value -- Code: -- enter value --

Close

- Add new **empty** values
 - input new name and code
 - press the **Add empty** button
- Add **aggregated** values
 - select the values from the value list
 - determine the dot code behaviour
 - select the aggregation function
 - press the **Aggregate** button
- Add complicated values
 - use the *Calculator*
- Add new variables
 - input new name and the first value
 - press the **Add** button

Calculator



- Meant for complicated calculations
 - calculations should usually have been done **earlier**
- Modify existing values or add new ones
- The value lists and constant fields activate depending on the function selections
- Selected values may be aggregated
- Dot code and zero dividing behaviour is configurable

Calculator: principle

- The mnemonic formula: x @ left @ right @ y

where:

x , y

left, right

@

constants

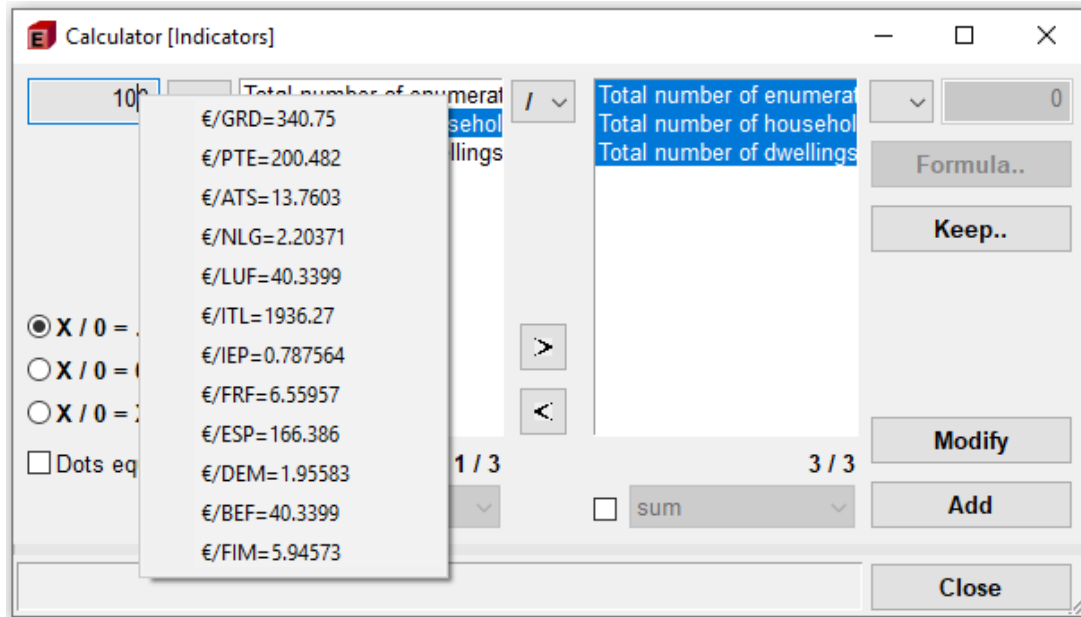
selected values or their sum

(the right list is always active)

calculating function (+, −, ×, / or %)

NB the function selection activates
the corresponding input field

Calculator: constants and formulae



- Constants may be selected from the drop down lists (double-click the field)
- Formulae may be kept (used in the same session) or saved in a file for later use

Metadata editor: Anonymise

Anonymise Tab

Variable: Product group en

Keywords Meta part View Select Sort Edit Add Anonymise

All products
01 Food and non-alcoholic beverages
01.1 Food
01.1.1 Bread and cereals
01.1.2 Meat
01.1.3 Fish
01.1.4 Milk, cheese and eggs
01.1.5 Oils and fats
01.1.6 Fruit
01.1.7 Vegetables
01.1.8 Sugar, jam, honey, chocolate and confectionery
01.1.9 Food products n.e.c.
01.2 Non alcoholic beverages
01.2.1 Coffee, tea and cocoa
01.2.2 Cold non-alcoholic beverages
02 Alcoholic beverages and tobacco
02.1 Alcoholic beverages
02.1.1 Spirits
02.1.2 Wine
02.1.3 Beer
02.2 Tobacco
03 Clothing and footwear
03.1 Clothing

Anonymise

☐ Codes
☒ Other values
☐ Control values
☐ Zeros
☐ Dot codes
☐ Many controls
☒ separately
☐ sum
☐ product

Mask range: 0 0 Fill item: ..

Table mask

Table: Mask

Close

- Select needed values in the *Select* Tab
- Select the triggering value name (e.g. quantity value)
- Give the **threshold** range
- The **Anonymise** button will replace all other values with the *Fill Item* when the trigger value belongs to the given range
- Switches for more complicated cases
- Data anonymising **cannot** be undone

Anonymise: table mask

[18] Consumer Price Index (CPI) (by COICOP), 1980=100 by ...

Variable: Product group en

Keywords Meta part View Select Sort Edit Add Anonymise

All products
01 Food and non-alcoholic beverages
01.1 Food
01.1.1 Bread and cereals
01.1.2 Meat
01.1.3 Fish
01.1.4 Milk, cheese and eggs
01.1.5 Oils and fats
01.1.6 Fruit
01.1.7 Vegetables
01.1.8 Sugar, jam, honey, chocolate and confectionery
01.1.9 Food products n.e.c.
01.2 Non alcoholic beverages
01.2.1 Coffee, tea and cocoa
01.2.2 Cold non-alcoholic beverages
02 Alcoholic beverages and tobacco
02.1 Alcoholic beverages
02.1.1 Spirits
02.1.2 Wine
02.1.3 Beer
02.2 Tobacco
03 Clothing and footwear
03.1 Clothing

Anonymise

☐ Codes
☒ Other values
☐ Control values
☐ Zeros
☐ Dot codes
☐ Many controls
☒ separately
☐ sum
☐ product

Mask range: 0 0 Fill item: ..

Table mask

Table: [4] Consumer Price Index (CPI) (by ... Mask

Close

- The data part of the mask table must be of the same size (rows x columns) as the table to be managed
- The mask table contains data and **dot codes**
- The resulting table will have the data from the original table and the dot codes from the mask table

Anonymising example

Original table

[1] Causes of death 1969-2009				
File Edit Window Language				
	Total	0-14	15-64	65-
01-72 TOTAL DEATHS (A00-Y89)	49904	241	10653	39010
01-58 ALL DISEASES (A00-R99)	45597	222	8042	37333
01-05 I CERTAIN INFECTIOUS AND PARASITIC DISEAS...	430	4	72	354
01 Tuberculosis (A15-A19, B90)	54	0	4	50
02 Meningococcal infection (A39)	3	0	2	1
03 Viral hepatitis (B15-B19)	13	0	10	3
04 Human immunodeficiency virus (HIV) disease (B20-B24)	3	0	3	0
05 Other infectious and parasitic diseases (A00-A09, A20-...	357	4	53	300
06-24 II NEOPLASMS (C00-D48)	11310	22	2968	8320
06-23 Malignant neoplasms (C00-C97)	10996	21	2923	8052
06 Malignant neoplasm of lip, oral cavity, pharynx (C00-C14)	178	0	85	93
07 Malignant neoplasm of oesophagus (C15)	233	0	80	153
08 Malignant neoplasm of stomach (C16)	487	0	141	346
09 Malignant neoplasm of colon (C18, C19)	749	0	145	604
10 Malignant neoplasm of rectum and anus (C20-C21)	361	0	99	262
11 Primary malignant neoplasm of liver (C22)	464	1	104	359
12 Malignant neoplasm of pancreas (C25)	948	0	243	705
13 Malignant neoplasm of larynx, trachea, lung (C32-C34)	2069	0	593	1476
14 Malignant melanoma of skin (C43)	177	0	55	122
15 Malignant neoplasm of breast (C50)	823	0	326	497
16 Malignant neoplasm of cervix uteri (C53)	54	0	25	29

89 rows x 4 columns = 356 figures

- All the age groups, where **Total** is not greater than 10, should be masked with the *Fill item*

Needed settings

[1] Causes of death 1969-2009

Variable: Age en

Keywords Meta part View Select Sort Edit Add Anonymise

Total
0-14
15-64
65-

Anonymise

☐ Codes
☒ Other values
☐ Control values
☐ Zeros
☐ Dot codes
☐ Many controls
 ☒ separately
 ☐ sum
 ☐ product

Mask range: 0 10 Fill item: ..

Table mask
Table: Mask

Close

- *Total* is selected as the control value
- The mask range is set as 0..10
- **Anonymise** button will first show the confirmation window, and pressing **Yes** gives...

Anonymised table

[1] Causes of death 1969-2009				
File Edit Window Language				
	Total	0-14	15-64	65-
01-72 TOTAL DEATHS (A00-Y89)	49904	241	10653	39010
01-58 ALL DISEASES (A00-R99)	45597	222	8042	37333
01-05 I CERTAIN INFECTIOUS AND PARASITIC DISEA...	430	4	72	354
01 Tuberculosis (A15-A19, B90)	54	0	4	50
02 Meningococcal infection (A39)	3	0
03 Viral hepatitis (B15-B19)	13	0	10	3
04 Human immunodeficiency virus (HIV) disease (B20-B...	3	0	0
05 Other infectious and parasitic diseases (A00-A09, A2...	357	4	53	300
06-24 II NEOPLASMS (C00-D48)	11310	22	2968	8320
06-23 Malignant neoplasms (C00-C97)	10996	21	2923	8052
06 Malignant neoplasm of lip, oral cavity, pharynx (C00-...	178	0	85	93
07 Malignant neoplasm of oesophagus (C15)	233	0	80	153
08 Malignant neoplasm of stomach (C16)	487	0	141	346
09 Malignant neoplasm of colon (C18, C19)	749	0	145	604
10 Malignant neoplasm of rectum and anus (C20-C21)	361	0	99	262
11 Primary malignant neoplasm of liver (C22)	464	1	104	359
12 Malignant neoplasm of pancreas (C25)	948	0	243	705
13 Malignant neoplasm of larynx, trachea, lung (C32-C34)	2069	0	593	1476
14 Malignant melanoma of skin (C43)	177	0	55	122
15 Malignant neoplasm of breast (C50)	823	0	326	497
16 Malignant neoplasm of cervix uteri (C53)	54	0	25	29

89 rows x 4 columns = 356 figures 7 rows were masked. en

- The *Fill item* has been set as four dots for clarity
- Zeros were not masked as default
 - if that would have been necessary, the zeros check box would have done the trick