

# PX-Edit 3.2

## Table editing

# Table window

# Table window

		Emigrants			Excess of migration					Excess of Immigration				
		2	3	4	0	1	2	3	4	0	1	2	3	
00 Sweden	women	2000	284	249	240	187	459	195	201	190	187	459	195	201
		2001	238	233	217	235	448	282	227	212	235	448	282	227
		2002	227	212	211	241	541	273	266	210	241	541	273	266
		2003	257	267	233	158	554	291	201	194	158	554	291	201
		2004	263	265	239	231	656	312	132	198	231	656	312	132
		2005	265	263	252	211	597	338	175	137	211	597	338	175
01 Stockh...	men	1997	132	113	126	-26	-5	23	13	-25	2	23	-21	
		1998	97	112	110	26	-49	-28	-37	14	34	8	25	
		1999	102	100	108	-4	0	-12	8	-46	61	46	29	
		2000	112	93	99	-20	-56	-80	-3	-26	64	47	30	
		2001	102	80	77	-25	-117	-97	-83	-13	66	87	50	
		2002	89	84	77	-71	101	105	-76	-29	79	94	59	
		2003	85	88	83	-52	107	120	-75	-35	61	93	51	
		2004	113	99	104	-28	135	106	108	-56	53	30	21	
		2005	110	116	112	-29	102	-78	-76	-60	67	68	28	
	women	1997	120	90	133	13	40	-48	20	-32	-2	29	-13	

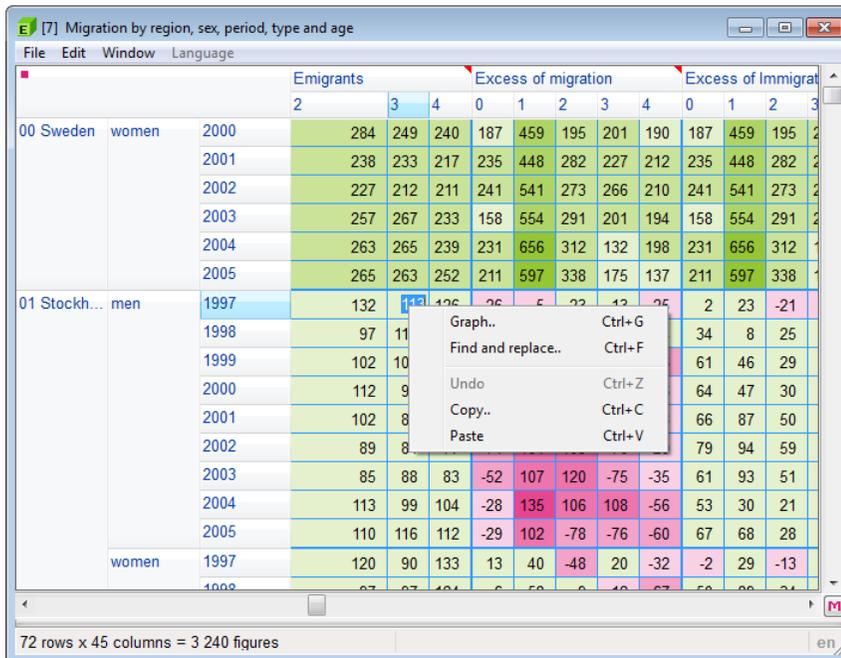
- Reduced *File*, *Edit*, *Window* and *Language* menus are available
- Minimum and maximum values are shown by double-clicking the lower right field
- The **m** button in the bottom right corner opens the *Metadata editor*
  - **double click** moves the *Editor* window beside the table
- Range colouring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

# Table window: editing

		Emigrants			Excess of migration				Excess of Immigrat				
		2	3	4	0	1	2	3	4	0	1	2	3
00 Sweden	women	2000	284	249	240	187	459	195	201	190	187	459	195
		2001	238	233	217	235	448	282	227	212	235	448	282
		2002	227	212	211	241	541	273	266	210	241	541	273
		2003	257	267	233	158	554	291	201	194	158	554	291
		2004	263	265	239	231	656	312	132	198	231	656	312
		2005	265	263	252	211	597	338	175	137	211	597	338
01 Stockh...	men	1997	132	118	126	-26	-5	23	13	-25	2	23	-21
		1998	97	111	111	111	111	111	111	111	111	111	111
		1999	102	102	102	102	102	102	102	102	102	102	102
		2000	112	112	112	112	112	112	112	112	112	112	112
		2001	102	102	102	102	102	102	102	102	102	102	102
		2002	89	89	89	89	89	89	89	89	89	89	89
		2003	85	85	85	85	85	85	85	85	85	85	85
		2004	113	99	104	-28	135	106	108	-56	53	30	21
		2005	110	116	112	-29	102	-78	-76	-60	67	68	28
	women	1997	120	90	133	13	40	-48	20	-32	-2	29	-13
		1998	87	87	87	87	87	87	87	87	87	87	87

- 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: cell operations



The screenshot shows a table window titled "[7] Migration by region, sex, period, type and age". The table has columns for region, sex, year, and migration figures. A context menu is open over a cell in the "Excess of migration" column for the year 1997, showing options: Graph.. (Ctrl+G), Find and replace.. (Ctrl+F), Undo (Ctrl+Z), Copy.. (Ctrl+C), and Paste (Ctrl+V).

		Emigrants			Excess of migration				Excess of Immigrat					
		2	3	4	0	1	2	3	4	0	1	2	3	
00 Sweden	women	2000	284	249	240	187	459	195	201	190	187	459	195	201
		2001	238	233	217	235	448	282	227	212	235	448	282	227
		2002	227	212	211	241	541	273	266	210	241	541	273	266
		2003	257	267	233	158	554	291	201	194	158	554	291	201
		2004	263	265	239	231	656	312	132	198	231	656	312	132
		2005	265	263	252	211	597	338	175	137	211	597	338	175
01 Stockh...	men	1997	132	117	106	96	5	22	12	95	2	23	-21	10
		1998	97	111	106	106	106	106	106	106	34	8	25	10
		1999	102	102	102	102	102	102	102	102	61	46	29	10
		2000	112	99	99	99	99	99	99	99	64	47	30	10
		2001	102	88	88	88	88	88	88	88	66	87	50	10
	women	2002	89	88	88	88	88	88	88	88	79	94	59	10
		2003	85	88	83	-52	107	120	-75	-35	61	93	51	10
		2004	113	99	104	-28	135	106	108	-56	53	30	21	10
		2005	110	116	112	-29	102	-78	-76	-60	67	68	28	10
		1997	120	90	133	13	40	-48	20	-32	-2	29	-13	10

— Right-clicking a cell opens a shortcut menu

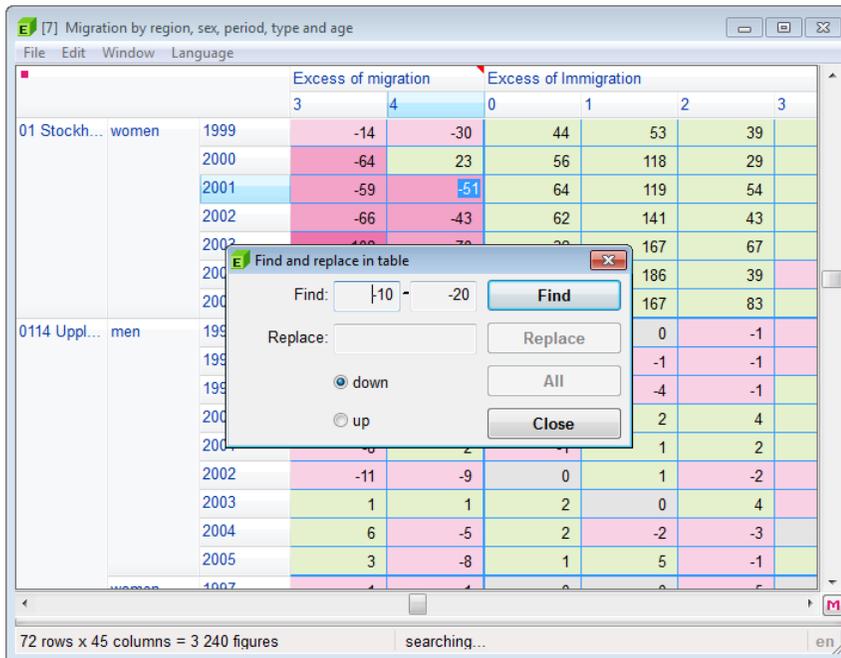
— chart creation [**Ctrl+G**]

- the selected cell will work as the **anchor** point

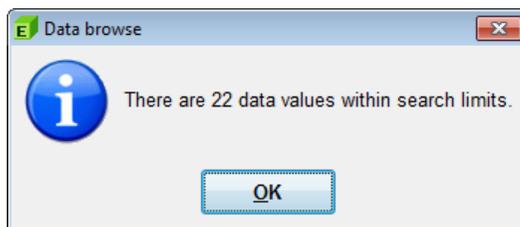
— find and replace function [**Ctrl+F**]

— clipboard operations for the cell contents

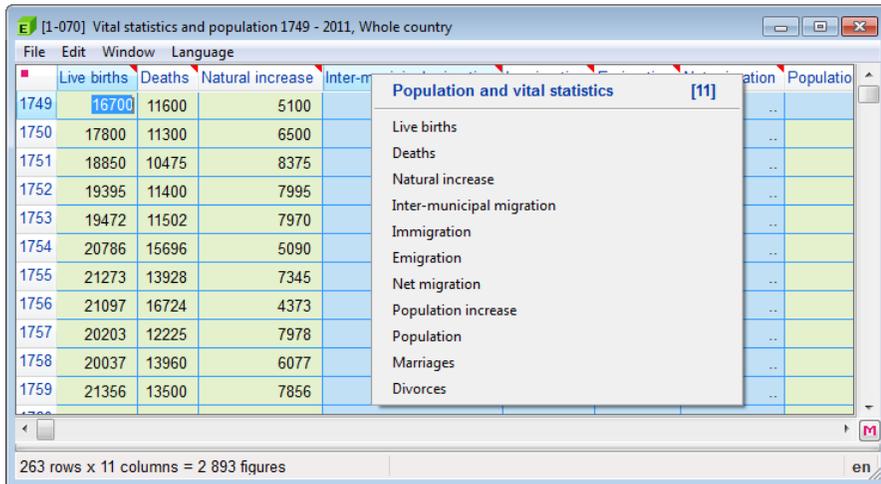
# Table window: find and replace



- 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: navigation



The screenshot shows a table window titled "[1-070] Vital statistics and population 1749 - 2011, Whole country". The table has columns for "Live births", "Deaths", "Natural increase", "Inter-m", "Migration", and "Populatio". The data rows are numbered 1749 to 1759. A right-click context menu is open over the "Live births" header cell, displaying a list of variables: "Live births", "Deaths", "Natural increase", "Inter-municipal migration", "Immigration", "Emigration", "Net migration", "Population increase", "Population", "Marriages", and "Divorces". The menu title is "Population and vital statistics [11]".

	Live births	Deaths	Natural increase	Inter-m	Migration	Populatio
1749	16700	11600	5100			
1750	17800	11300	6500			
1751	18850	10475	8375			
1752	19395	11400	7995			
1753	19472	11502	7970			
1754	20786	15696	5090			
1755	21273	13928	7345			
1756	21097	16724	4373			
1757	20203	12225	7978			
1758	20037	13960	6077			
1759	21356	13500	7856			

- Right-clicking the header cell opens a shortcut menu
  - the header shows the corresponding variable name and number of values
  - the selection menu gives every value text for the variable
    - selecting the value will move the table view to this value
  - long lists will be divided to sub-menus

# Metadata editor: Keywords

# Keywords Tab

[1] Population by region, marital status, age, period and sex

Variable: region en

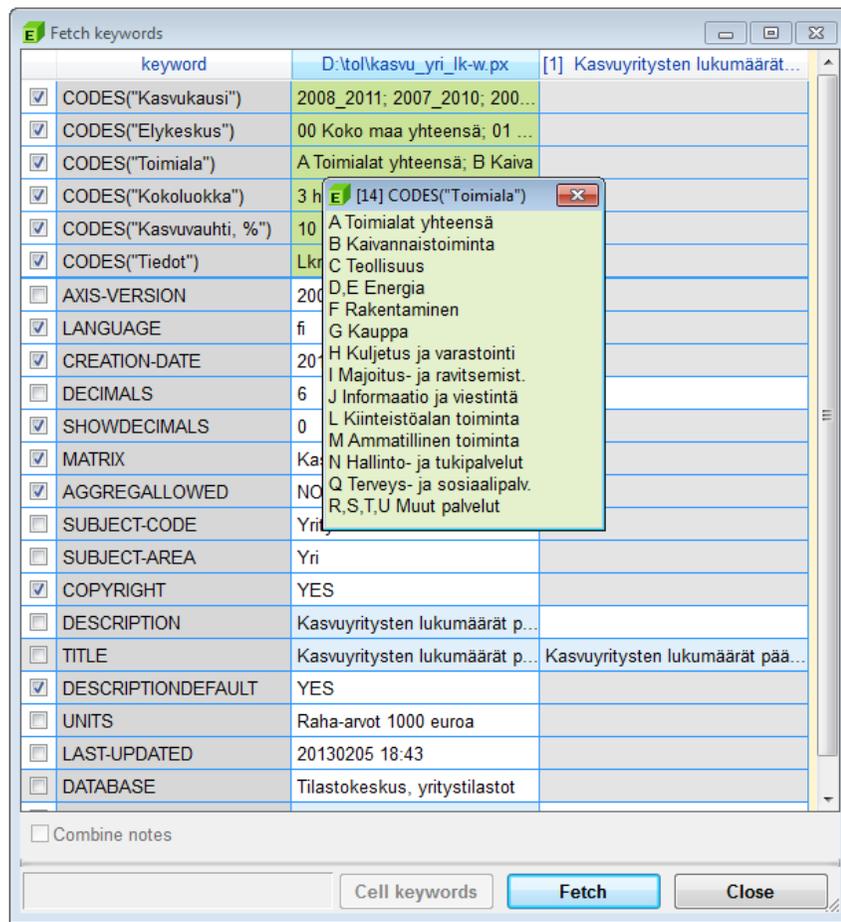
Keywords Meta part View Select Sort Edit Add Anonymize

keyword	value
CHARSET	ANSI
AXIS-VERSION	2006
CODEPAGE	iso-8859-15
LANGUAGE	en
LANGUAGES	
CREATION-DATE	20060725 16:40
DECIMALS	0
SHOWDECIMALS	0
MATRIX	BE0101A1
SUBJECT-CODE	BE
SUBJECT-AREA	Population
COPYRIGHT	
DESCRIPTION	
TITLE	Population by region, marital status, age, p...
CONTENTS	Population

Hide Set.. Defaults Import.. Close

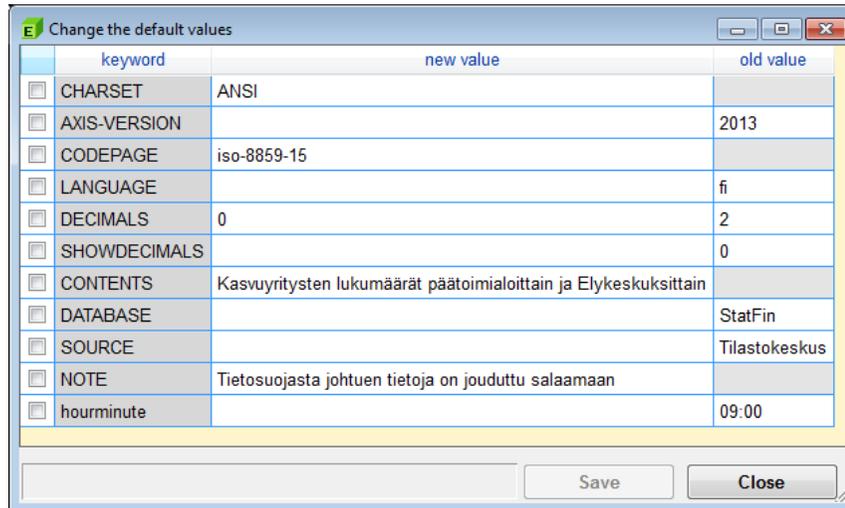
- Keywords are grouped in four sheets
- Field colours denote different actions
  - one-line input (with maximum length)
  - multi-line input
  - selection lists
  - numeric
  - time and date
  - unknown
  - special fields (e.g. *LANGUAGES*, *TIMEVAL*)
- *Hide* selection conceals all non-mandatory and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

# Keywords: import



- **Import** button makes it easy to get keyword values from other PC-Axis 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 contents may be inspected by clicking the field

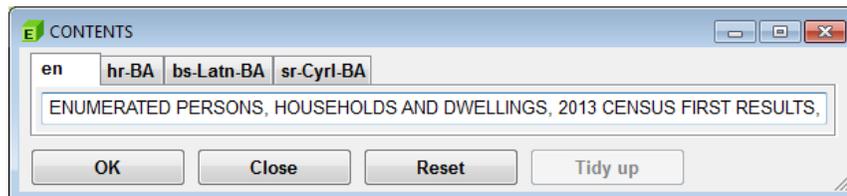
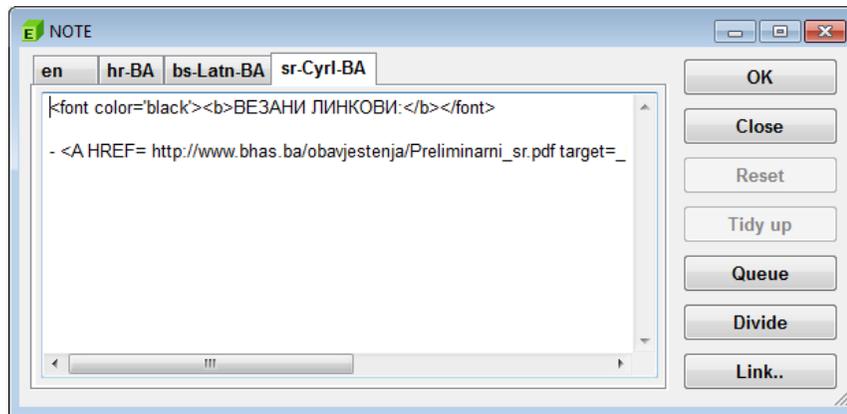
# Keywords: set



	keyword	new value	old value
<input type="checkbox"/>	CHARSET	ANSI	
<input type="checkbox"/>	AXIS-VERSION		2013
<input type="checkbox"/>	CODEPAGE	iso-8859-15	
<input type="checkbox"/>	LANGUAGE		fi
<input type="checkbox"/>	DECIMALS	0	2
<input type="checkbox"/>	SHOWDECIMALS		0
<input type="checkbox"/>	CONTENTS	Kasvuyritysten lukumäärät päätoimialoitain ja Elykeskuksittain	
<input type="checkbox"/>	DATABASE		StatFin
<input type="checkbox"/>	SOURCE		Tilastokeskus
<input type="checkbox"/>	NOTE	Tietosuojasta johtuen tietoja on jouduttu salaamaan	
<input type="checkbox"/>	hourminute		09:00

- **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
  - resizable 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

The screenshot shows a software window titled "[4-020] Supplies and total consumption of electricity, GWh by Year(...)". The "Variable:" field is set to "Year(\*preliminary)". Below the variable field is a menu bar with options: "Keywords", "Meta part", "View", "Select", "Sort", "Edit", "Add", and "Anonymize". A table with columns "keyword" and "value" is visible. A popup menu is open, listing various categories and their corresponding codes:

keyword	value
SHOWDECIMALS	0
MATRIX	a
AGGREGALLOWED	NO
SUBJECT-CODE	ENE
SUBJECT-AREA	Energy
COPYRIGHT	YES
DESCRIPTION	Supplies
TITLE	Supplies
CONTENTS	Supplies
UNITS	GWh %
LAST-UPDATED	20110513
CONTACT	Statistics Finland
SOURCE	Finnish Energy Statistics
NOTEX	Net imports

The popup menu lists the following categories and codes:

- ASU Housing
- ELI Living Conditions
- ENE Energy
- HIN Prices and Costs
- JUL Government Finance
- KAN National Accounts
- KAU Trade
- KLT Culture and the Media
- KOU Education
- LII Transport and Tourism
- MAA Agriculture, Forestry and Fishery
- OIK Justice
- PAL Wages, Salaries and Labour Costs
- PAV Services
- RAH Financing and Insurance
- RAK Construction
- SOS Social Protection
- TEO Manufacturing
- TER Health
- TTT Science, Technology and Information Society
- TUL Income and Consumption
- TYM Labour Market
- VAA Elections
- VRM Population
- YMP Environment and Natural Resources
- YRI Enterprises

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

The screenshot shows a software window with a table of values. A popup menu is open, listing various units and their corresponding codes:

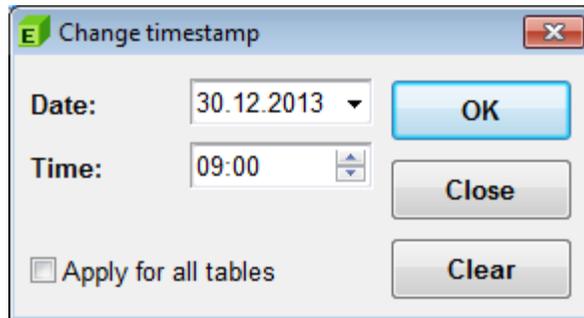
Unit	Code
MWh	megawatt-hours
GWh	gigawatt-hours
TWh	terawatt-hours
TJ	terajoule
PJ	petajoule
Mil. t-km	million tonne-kilometres
MW	megawatt
toe	tonne of oil equivalent
ktoe	thousand tons of oil equivalents
tU	tonnes of uranium

# 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

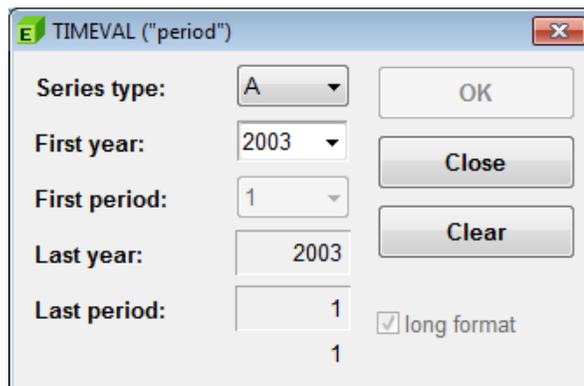
Apply for all tables

OK

Close

Clear

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



TIMEVAL ("period")

Series type: A

First year: 2003

First period: 1

Last year: 2003

Last period: 1

long format

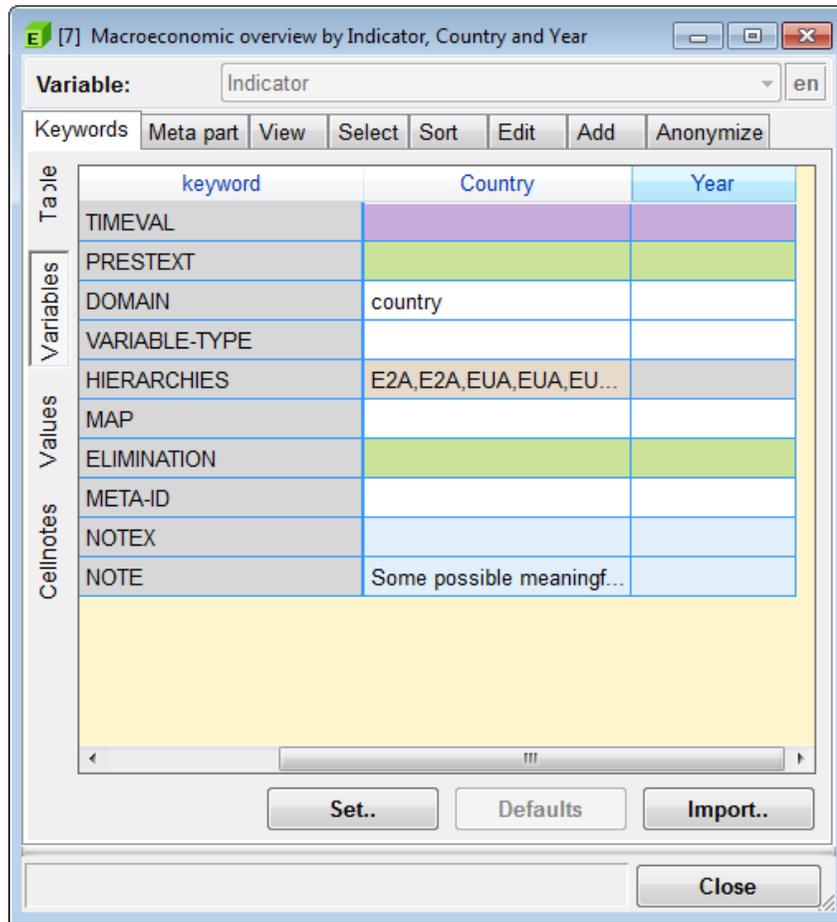
OK

Close

Clear

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

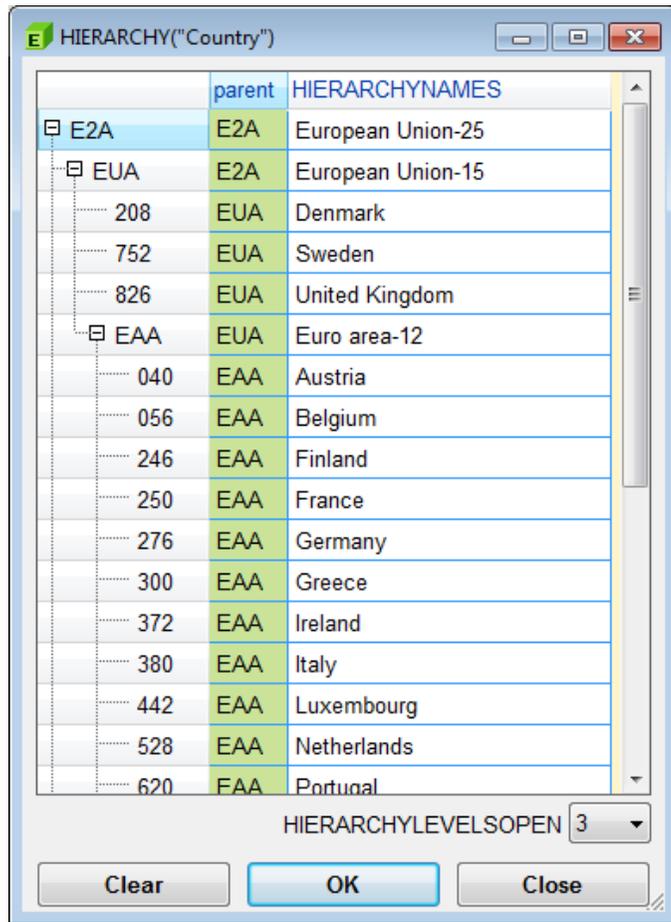
# Keywords: variable-specific keywords



	keyword	Country	Year
Table	TIMEVAL		
	PRETEXT		
Variables	DOMAIN	country	
	VARIABLE-TYPE		
	HIERARCHIES	E2A,E2A,EUA,EUA,EU...	
Values	MAP		
	ELIMINATION		
Cellnotes	META-ID		
	NOTEX		
	NOTE	Some possible meaningf...	

- 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 screenshot shows a window titled "HIERARCHY('Country')". It displays a hierarchical tree structure of countries and regions. The tree is organized into levels, with the top level being "E2A" (European Union-25). Below "E2A" are "EUA" (European Union-15) and "EAA" (Euro area-12). "EUA" includes "208" (Denmark), "752" (Sweden), and "826" (United Kingdom). "EAA" includes "040" (Austria), "056" (Belgium), "246" (Finland), "250" (France), "276" (Germany), "300" (Greece), "372" (Ireland), "380" (Italy), "442" (Luxembourg), "528" (Netherlands), and "620" (Portugal). The window also has a "HIERARCHYLEVELSOPEN" dropdown set to "3" and buttons for "Clear", "OK", and "Close".

	parent	HIERARCHYNAMES
[-] E2A	E2A	European Union-25
[-] EUA	E2A	European Union-15
208	EUA	Denmark
752	EUA	Sweden
826	EUA	United Kingdom
[-] EAA	EUA	Euro area-12
040	EAA	Austria
056	EAA	Belgium
246	EAA	Finland
250	EAA	France
276	EAA	Germany
300	EAA	Greece
372	EAA	Ireland
380	EAA	Italy
442	EAA	Luxembourg
528	EAA	Netherlands
620	EAA	Portugal

- 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

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

Variable: type en

Keywords Meta part View Select Sort Edit Add Anonymize

value	CONTACT	R B. M.	VALUENOTEX	VALUENOTE
Immigrated	Ewa Eriksson...		Migration can...	Request value...
Outmigrated			Migration can...	Request footn...

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 value *PRECISION* (if not greater than *DECIMALS*)

# Keywords: cell-specific keywords

[9] Наявне населення - Регіон, Рік, Зміст і Тип поселення

Variable: Тип поселення uk

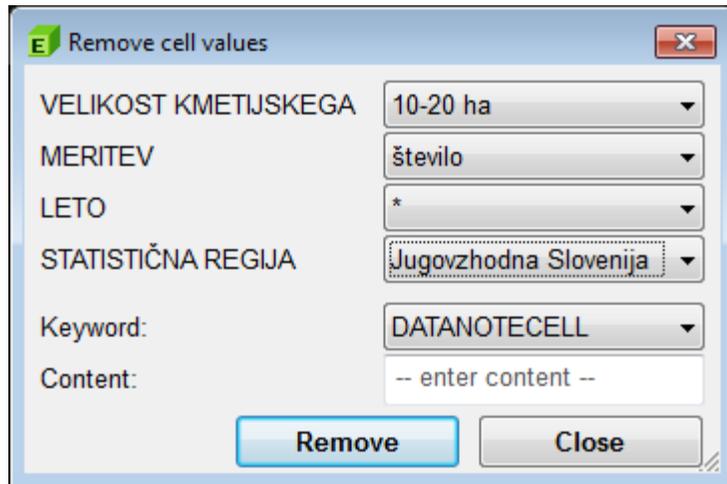
Keywords Meta part View Select Sort Edit Add Anonymize

Рік	Зміст	Тип пос...	C...	CELLNOTE
1989	*	*		Інформація подається за даними перепису .
2002	*	*		Інформація подається за даними перепису .

2 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

VELIKOST KMETIJSKEGA 10-20 ha

MERITEV število

LETO \*

STATISTIČNA REGIJA Jugovzhodna Slovenija

Keyword: DATANOTECELL

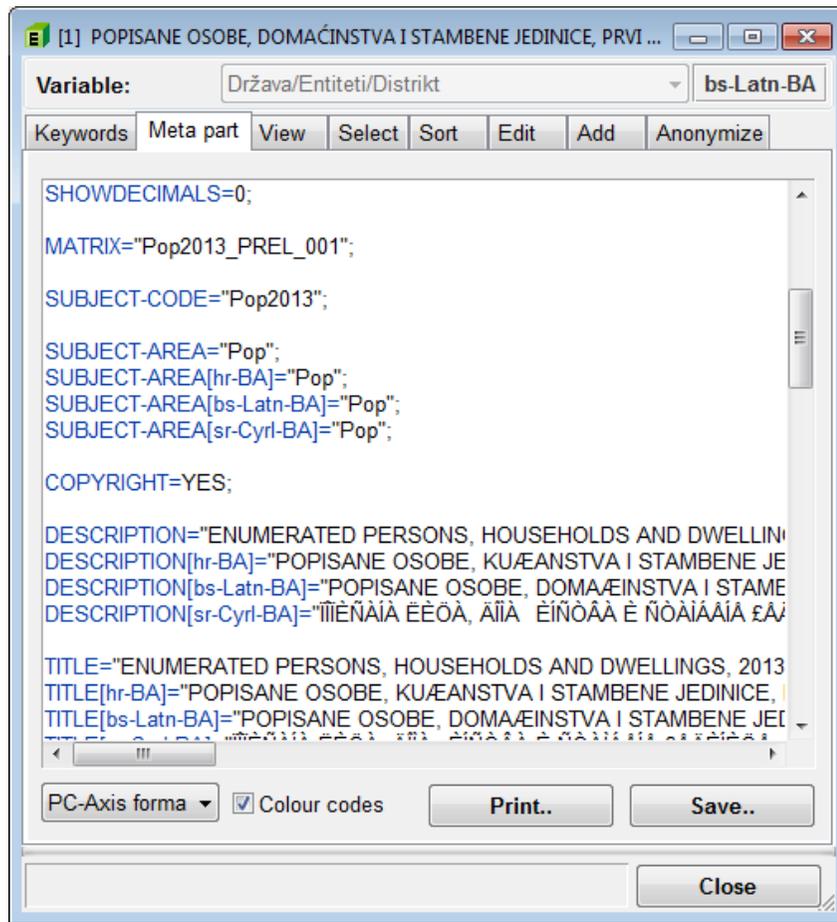
Content: -- enter content --

Remove Close

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

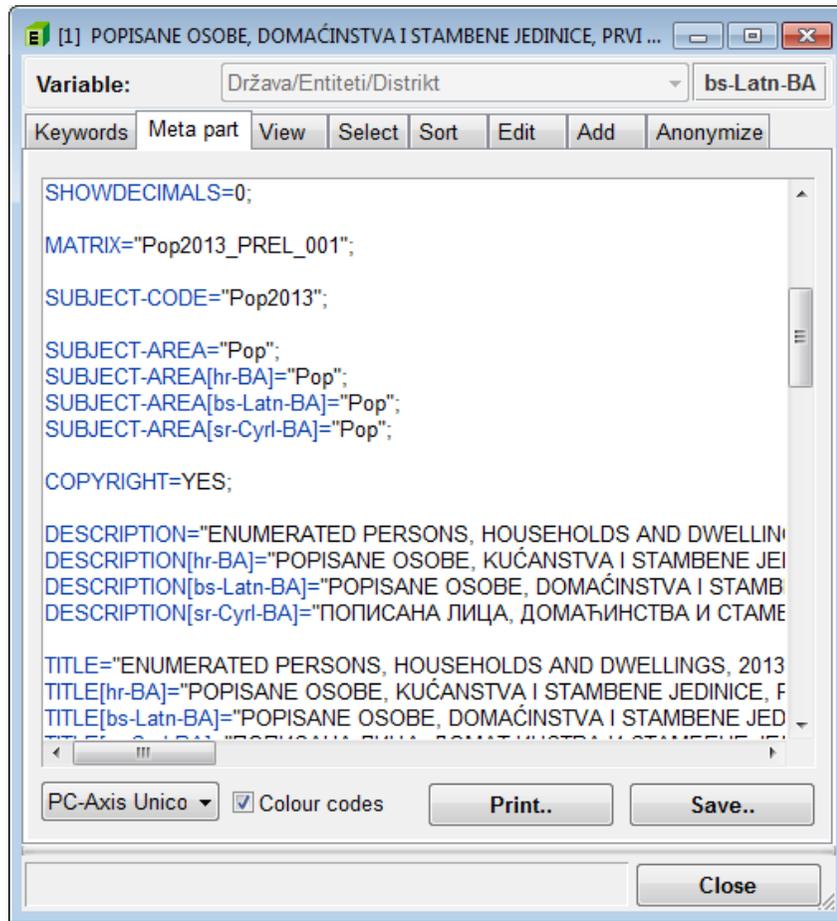
**Metadata editor: Meta part**

# Meta part Tab



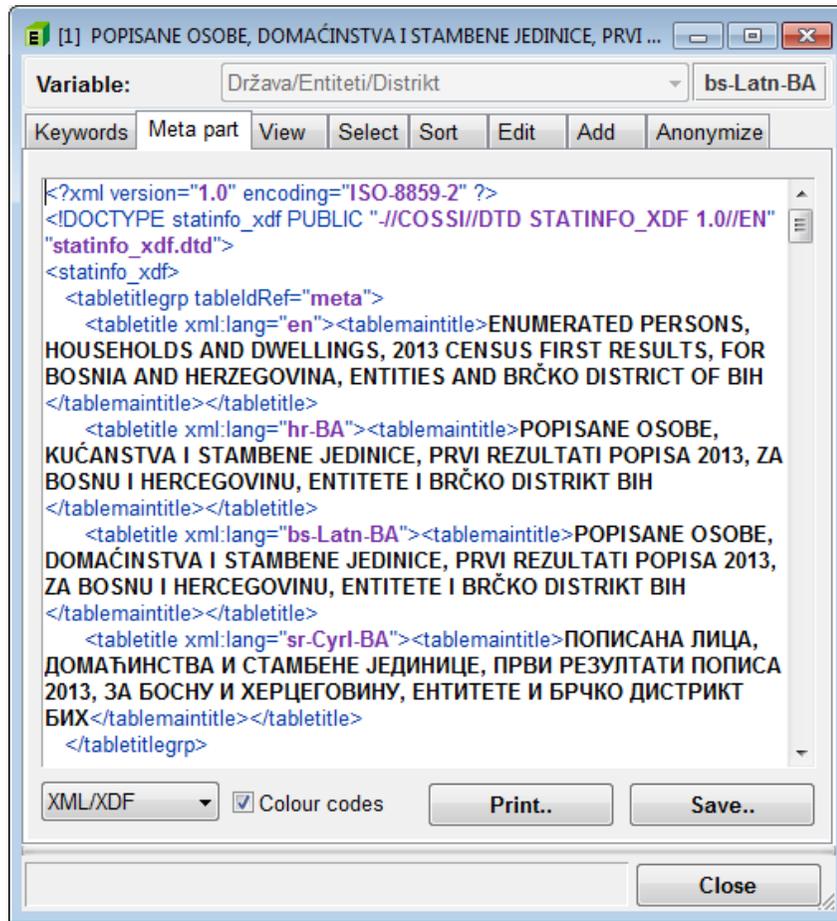
- The file structure will be shown as it would be saved in the file
  - the standard keyword order
  - no data part
  - empty lines between keywords
  - *KEYS* values are not necessarily the same as they would be when saved
- Clipboard and printing is supported
- May be saved as a metadata file (.pxk)

# Meta part: PC-Axis Unicode



— The file structure shown in Unicode

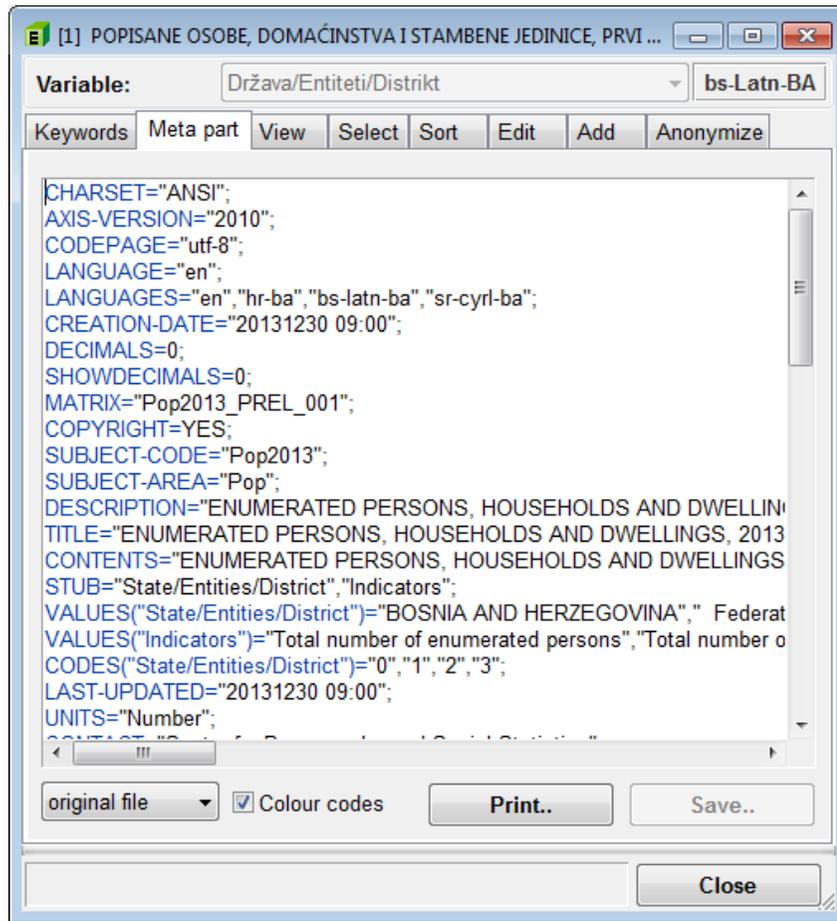
# Meta part: XML



```
<?xml version="1.0" encoding="ISO-8859-2" ?>
<!DOCTYPE statinfo_xdf PUBLIC "-//COSSI/DTD STATINFO_XDF 1.0//EN"
"statinfo_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>POPISANE OSOBE,
KUĆANSTVA I STAMBENE JEDINICE, PRVI REZULTATI POPISA 2013, ZA
BOSNU I HERCEGOVINU, ENTITETE I BRČKO DISTRIKT BIH
</tablemaintitle></tabletitle>
    <tabletitle xml:lang="bs-Latn-BA"><tablemaintitle>POPISANE OSOBE,
DOMAĆINSTVA I STAMBENE JEDINICE, PRVI REZULTATI POPISA 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>
```

- 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)

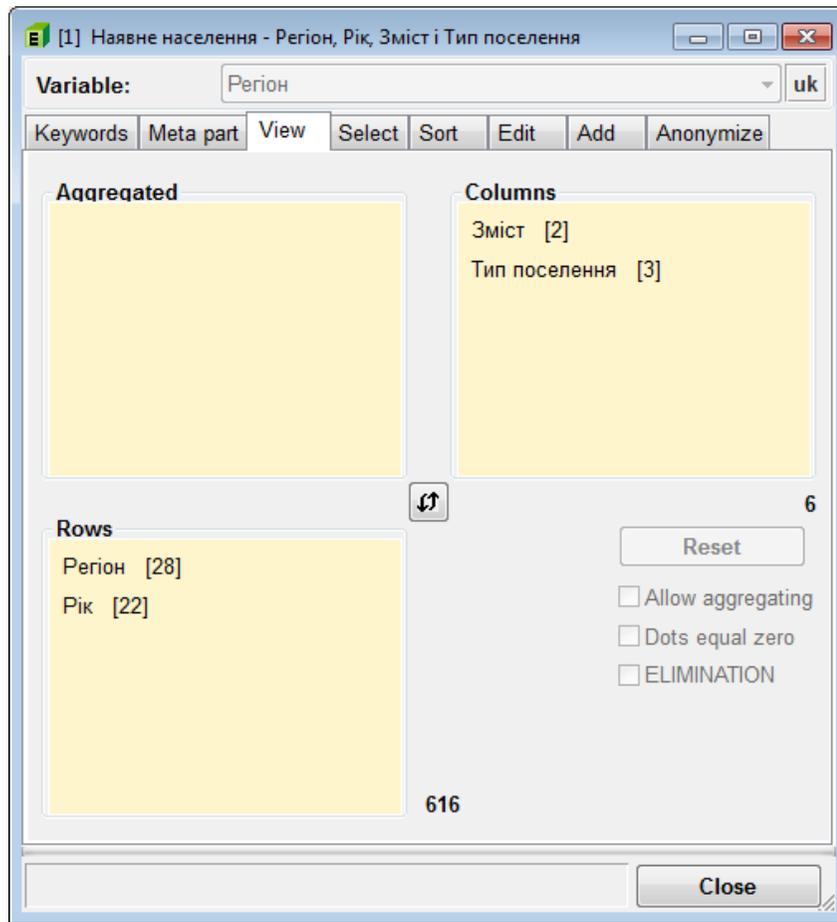
# Meta part: the original file



- 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

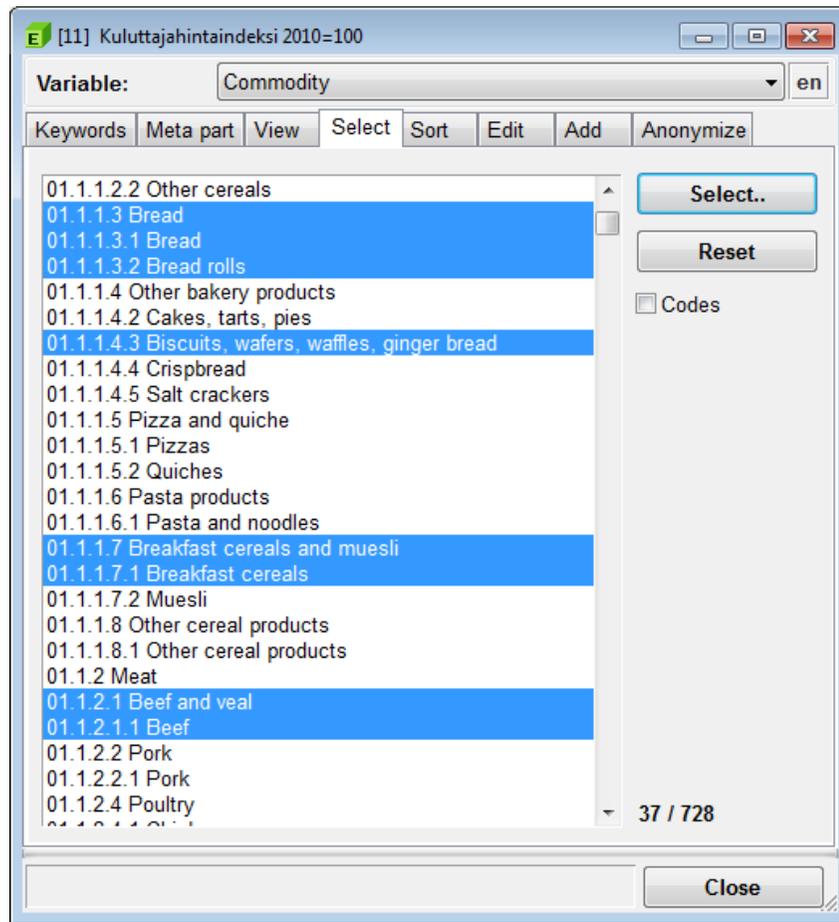
# View Tab



- 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

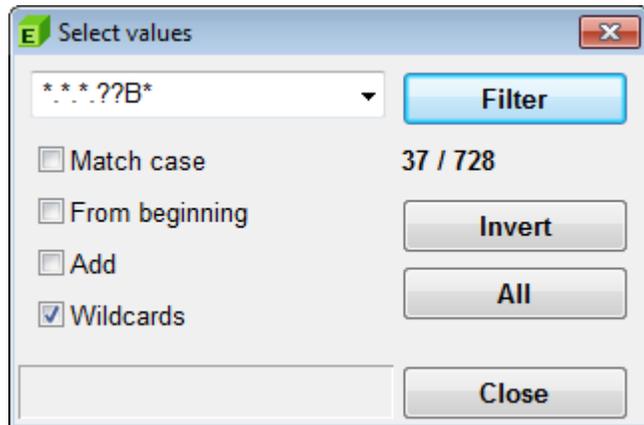
**Metadata editor: Select**

# 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

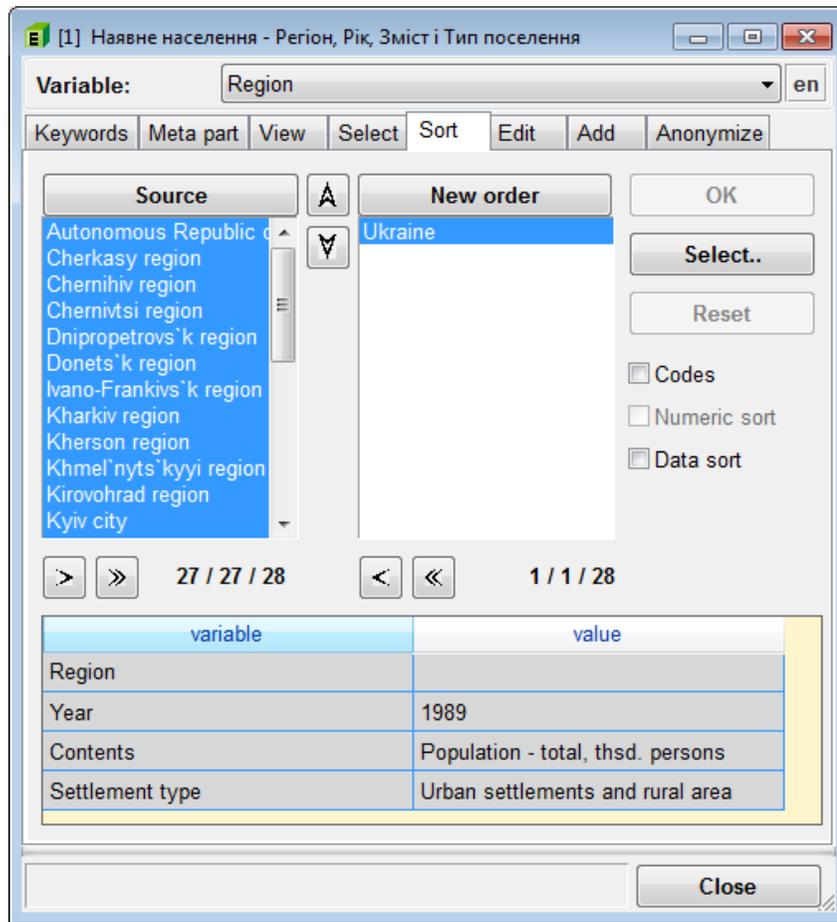
# Filtering window



- 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



- 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: Year(\*preliminary) en

Keywords Meta part View Select Sort Edit Add Anonymize

Source	New order
5868 1990	
5820 1991	
5765 1992	
5980 1993	
6446 1994	
6574 1995	
6629 1996	
7377 1997	
6918 1998	
7148 1999	
7283 2000	
7340 2001	
7488 2002	

0 / 22 / 22 0 / 0 / 22

variable	value
Year(*preliminary)	
Season	January
Production/Supply	GROSS PRODUCTION
Tiedot	Quantity, GWh

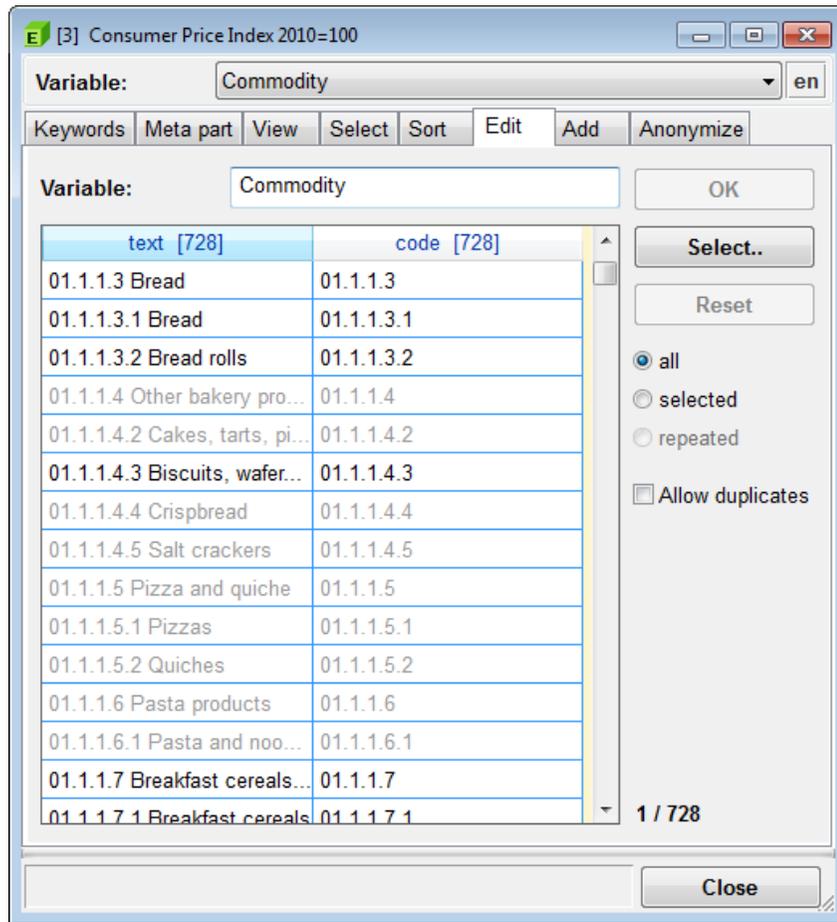
- Quantity, GWh
- Quartal/monthly change %
- Yearly change %
- Share of generation%
- Share of total consumption %

## — 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

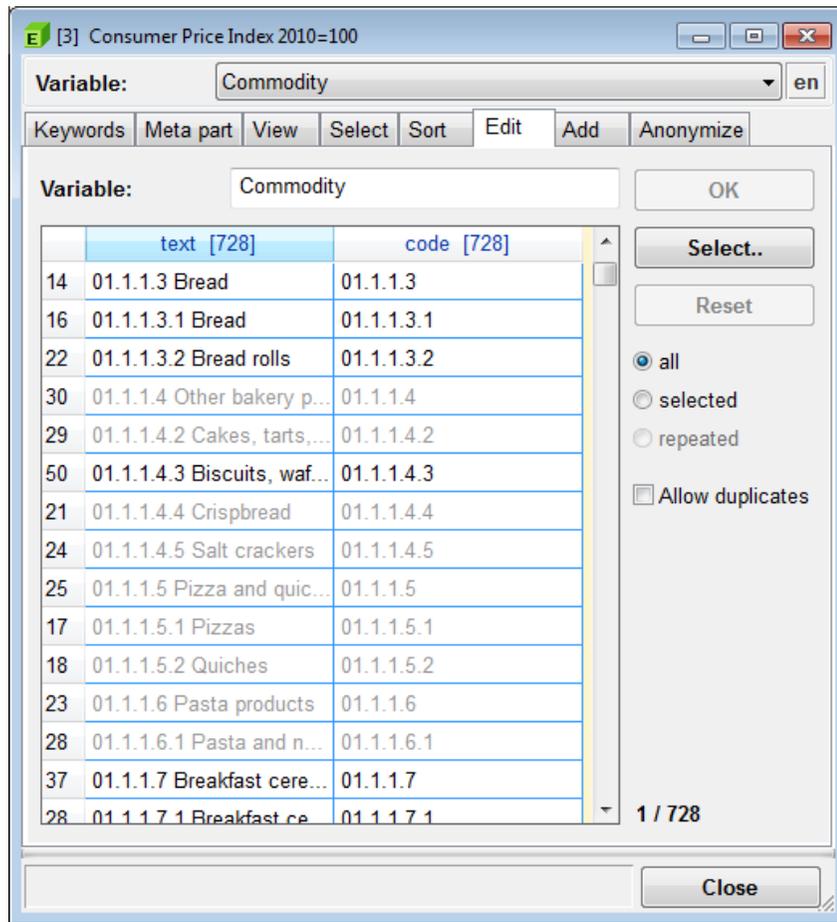
**Metadata editor: Edit**

# Edit Tab



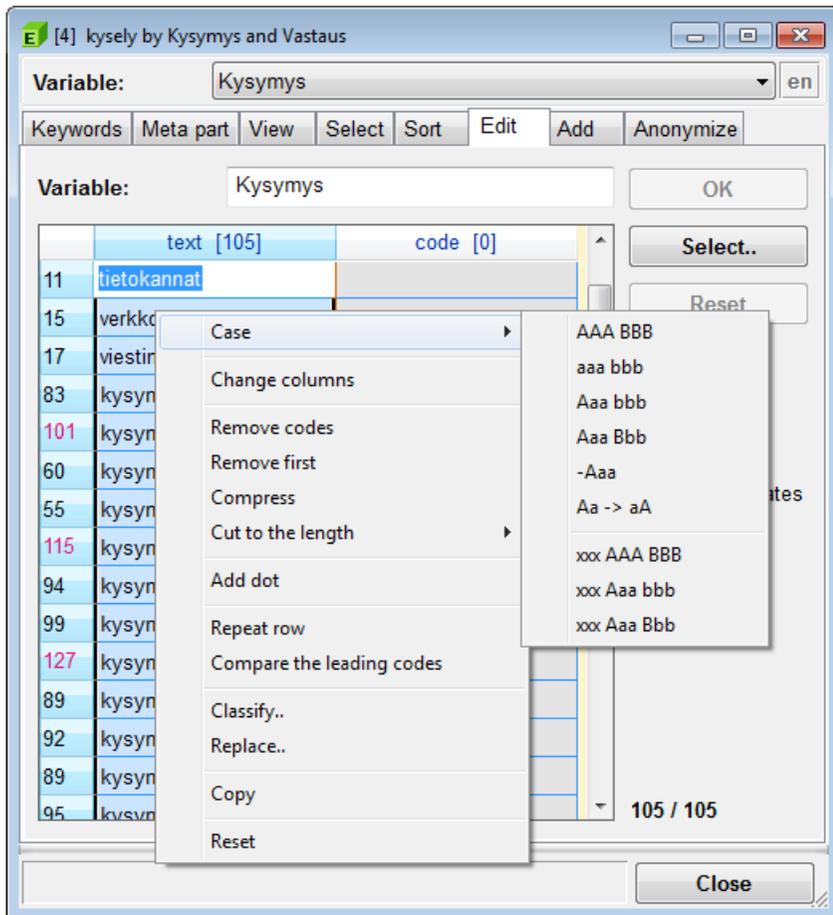
- Rename and/or select variables
- Values and codes are shown in the list
  - the whole list may be selected by clicking its header
  - the header shows the number of unique lines
  - unselected values are greyed out
  - duplicated texts or codes are shown with a yellow background
  - it is possible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

# Edit: value list



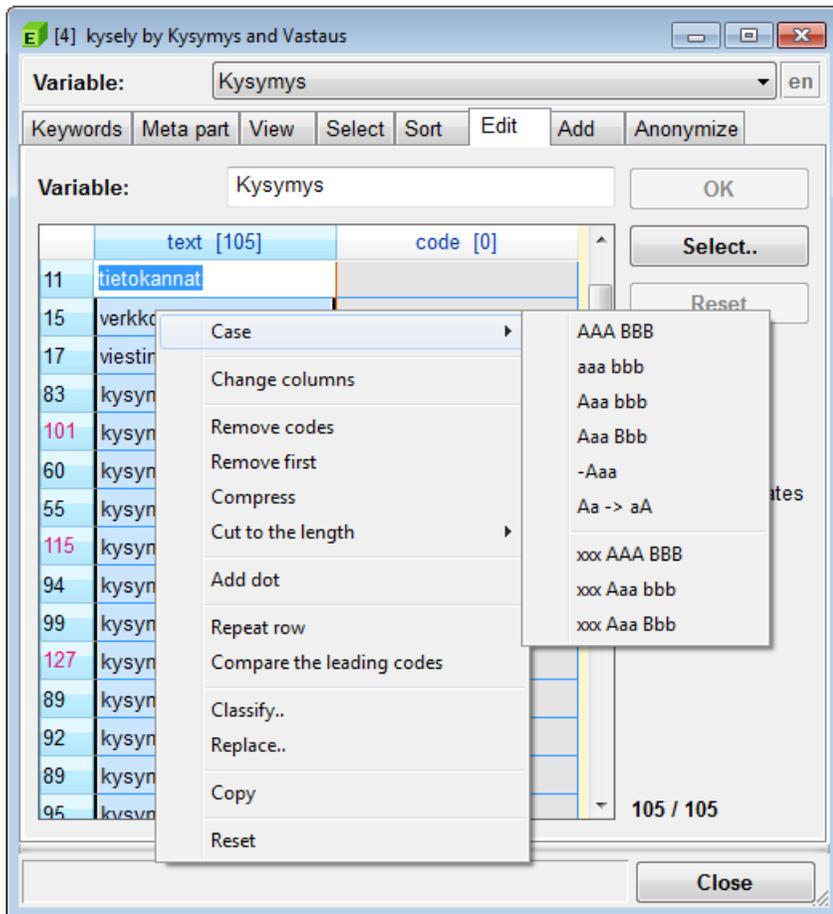
- Text lengths can be made visible by dragging the upper left area of the header
  - comes forth automatically if any length exceeds the pre-set limit
- The value or code menu opens by right-clicking
  - will show only **applicable** menu items

# Edit: values menu /1



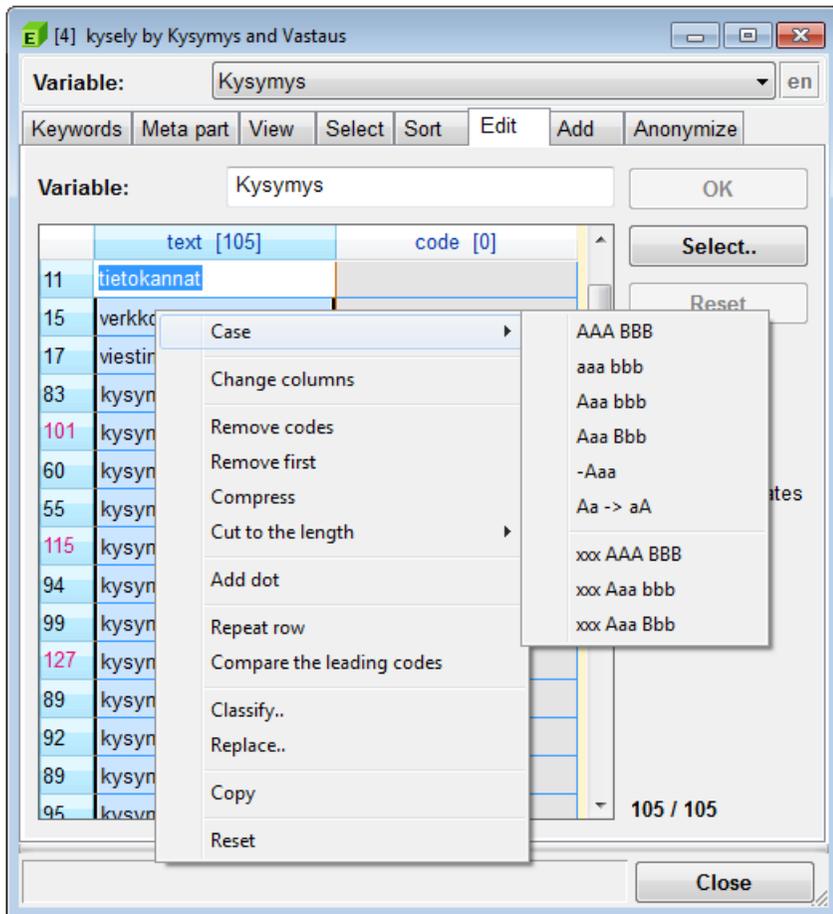
- Case sub-menu
  - character case changes
- Combine with codes
  - put codes in front of the texts separated with space
- Replace with codes
  - replace texts with corresponding codes
- Change columns
  - change texts to codes and vice versa
- Remove codes
  - remove the leading codes
- Remove first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

# Values: case menu /1



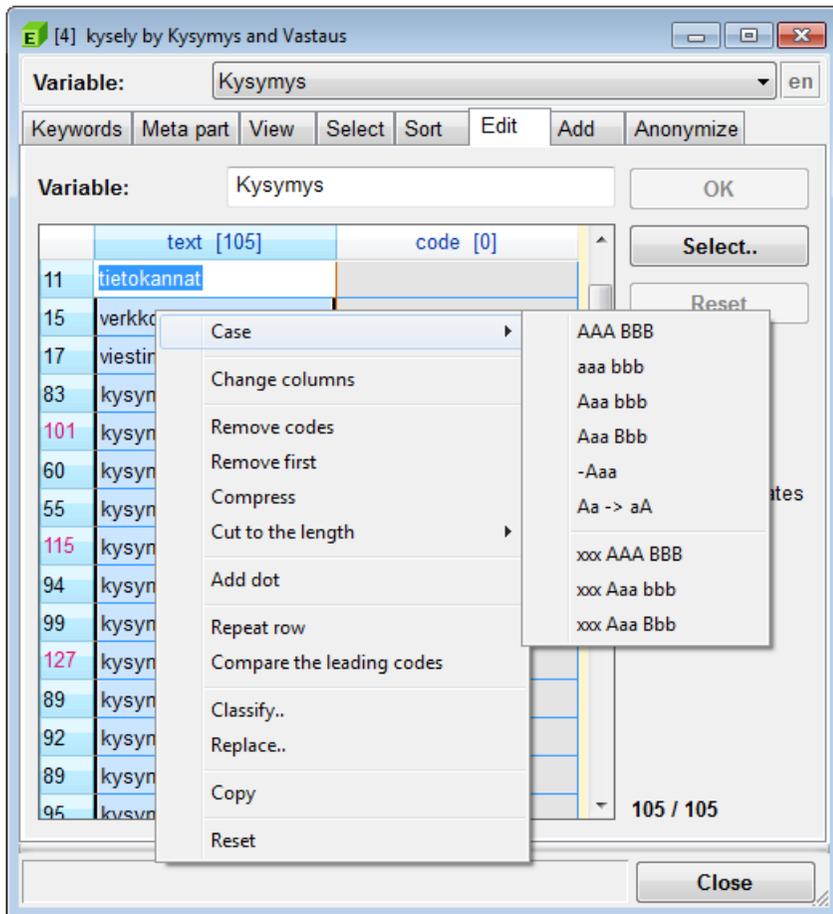
- AAA BBB
  - all uppercase
- aaa bbb
  - all lowercase
- Aaa bbb
  - capitalize (the first character in uppercase)
- Aaa Bbb
  - title-case (all the first characters in uppercase)
- Aaa – Bbb
  - all characters in lowercase except the first and the first letter of the first word after a dash

# Values: case menu /2



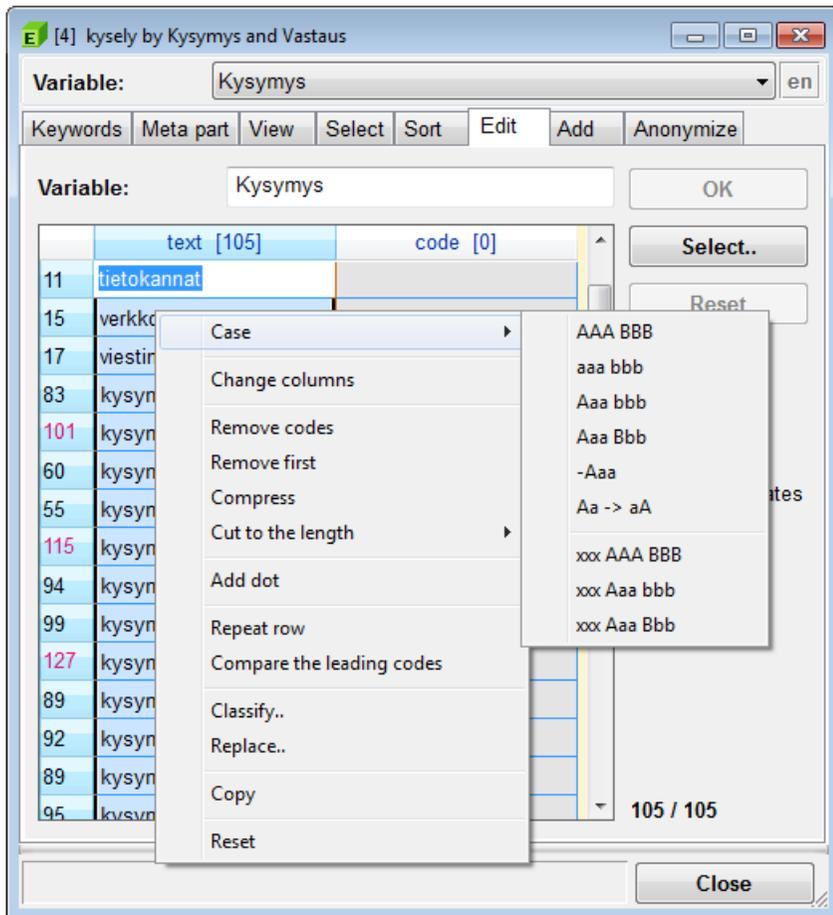
- Aaa
  - the first character adjoined to dash in uppercase
- Aa -> aA
  - invert cases
- xxx AAA BBB
  - like *AAA BBB* but the leading code stays intact
- xxx Aaa bbb
  - like *Aaa bbb* but the leading code stays intact
- xxx Aaa Bbb
  - like *Aaa Bbb* but the leading code stays intact

# Edit: values menu /2



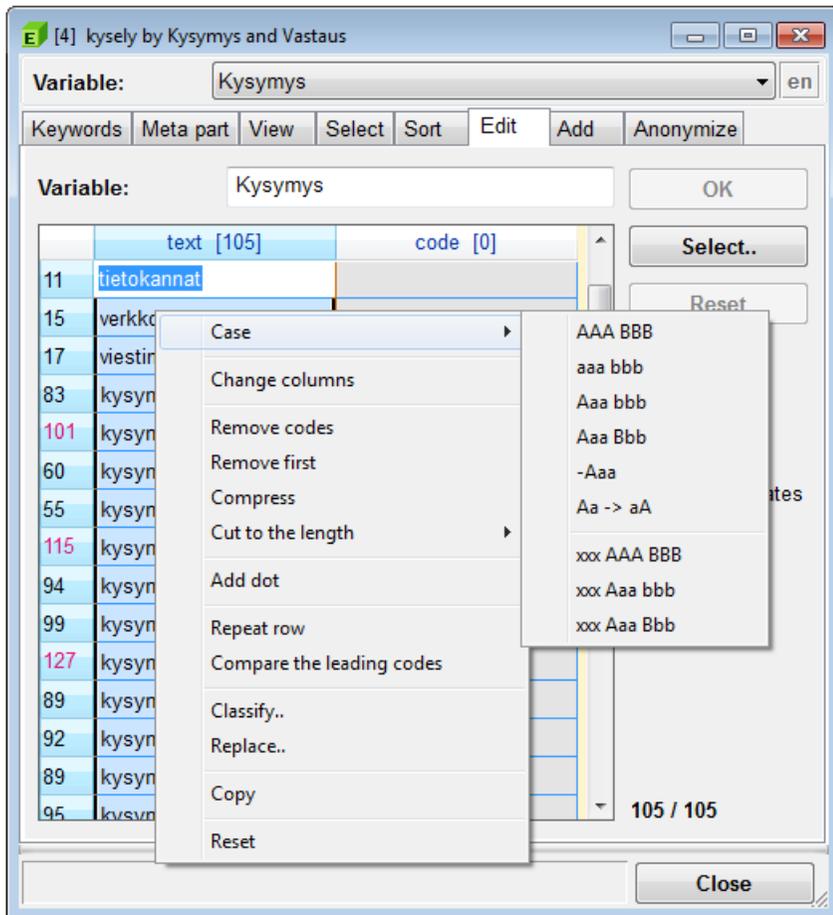
- Remove the leading blanks
  - drop the leading spaces
- Compress
  - compress successive blanks to one
- *Cut to the length* sub-menu
  - trim line length
- Add dot
  - add a dot in front of the selected lines
- Repeat row
  - replace the selected lines with the first selected line
- Compare the leading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

# Edit: values menu /3



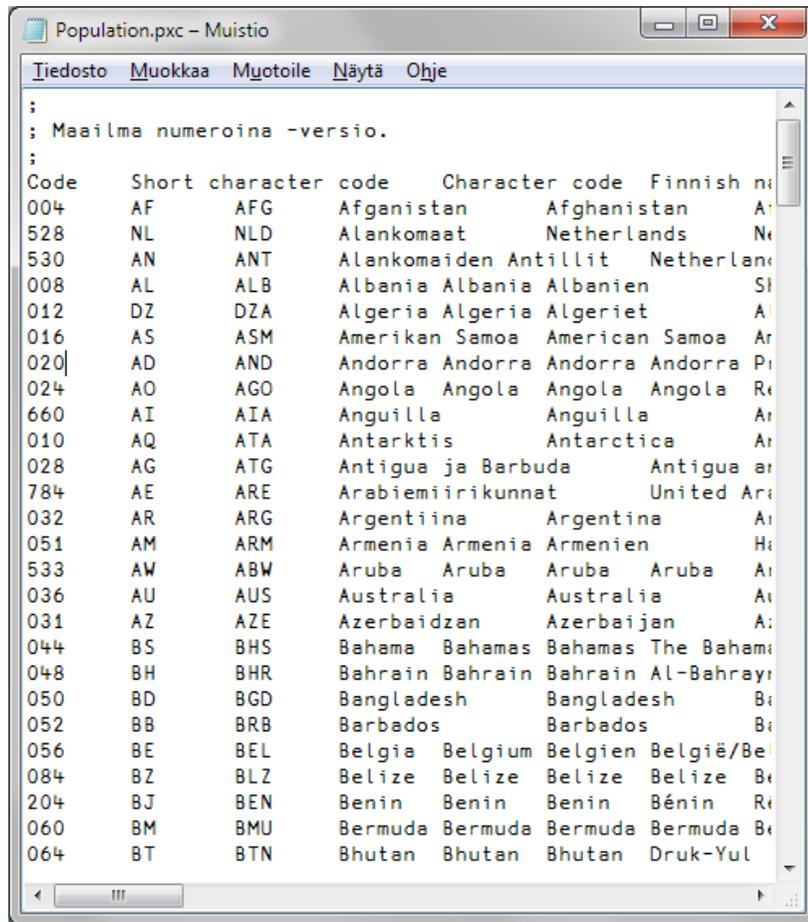
- Leading blanks to dots
  - change leading blanks to dots
- Leading dots to blanks
  - change leading dots to blanks
- Tabs to spaces
  - replace tab-characters to spaces
- Classify
  - standardise the value texts according to the codes
- Replace
  - change texts in all value texts

# Edit: values menu /4



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

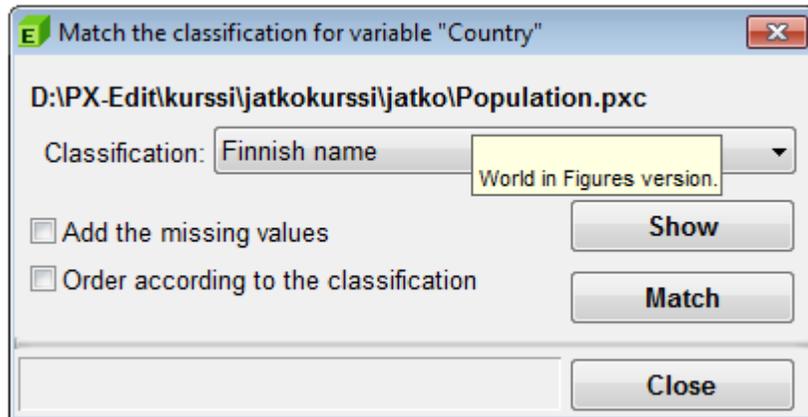
# Classification file



```
Population.pxc - Muistio
Tiedosto Muokkaa Muotoile Näytä Ohje
;
; Maailma numeroina -versio.
;
Code Short character code Character code Finnish name
004 AF AFG Afganistan Afghanistan Afghani
528 NL NLD Alankomaat Netherlands Netherlan
530 AN ANT Alankomaiden Antillit Netherlan
008 AL ALB Albania Albania Albanien
012 DZ DZA Algeria Algeria Algeriet
016 AS ASM Amerikan Samoa American Samoa Ar
020 AD AND Andorra Andorra Andorra Pi
024 AO AGO Angola Angola Angola Angola Ri
660 AI AIA Anguilla Anguilla Ar
010 AQ ATA Antarktis Antarctica Ar
028 AG ATG Antigua ja Barbuda Antigua ar
784 AE ARE Arabiemiirikunnat United Ara
032 AR ARG Argentiina Argentina Ar
051 AM ARM Armenia Armenia Armenien
533 AW ABW Aruba Aruba Aruba Aruba Ar
036 AU AUS Australia Australia Au
031 AZ AZE Azerbaidzan Azerbaijan A:
044 BS BHS Bahama Bahamas Bahamas The Bahami
048 BH BHR Bahrain Bahrain Bahrain Al-Bahrayr
050 BD BGD Bangladesh Bangladesh Bi
052 BB BRB Barbados Barbados Bi
056 BE BEL Belgia Belgium Belgien België/Be
084 BZ BLZ Belize Belize Belize Belize B:
204 BJ BEN Benin Benin Benin Bénin Ri
060 BM BMU Bermuda Bermuda Bermuda Bermuda B:
064 BT BTN Bhutan Bhutan Bhutan Druk-Yul
```

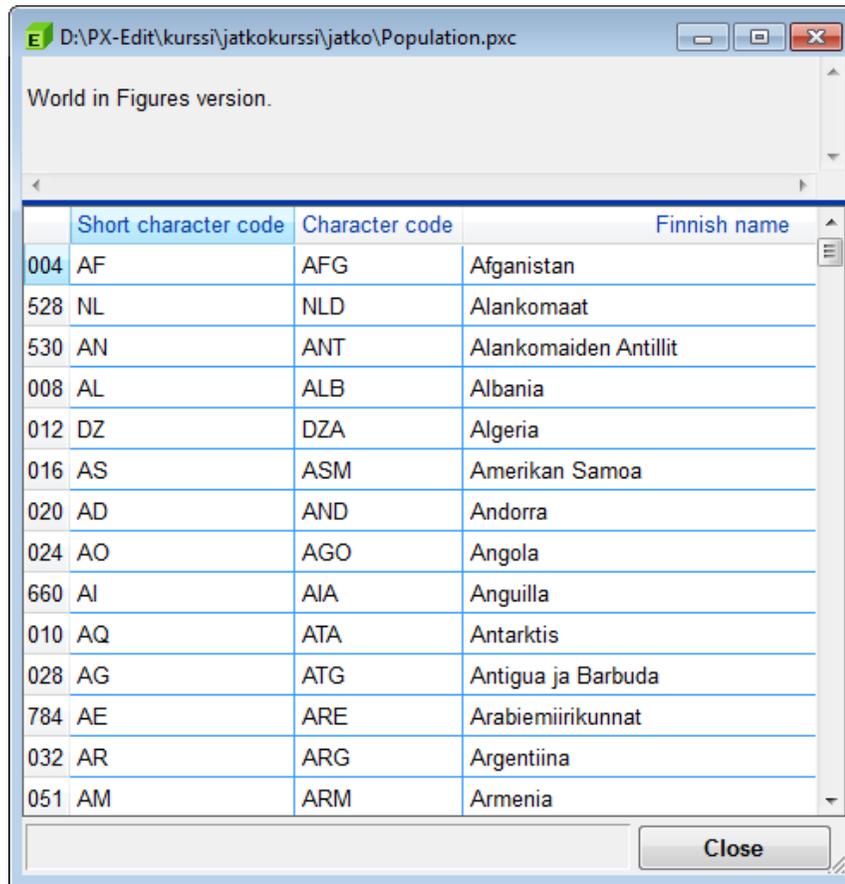
- File extension is pxc
- Every line is tab-delimited
- The first line contains column titles
- The first column contains the codes
- The next columns contain different classifications
- Comment lines start with a semicolon
  - shown in the classification window as hint bubbles

# 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



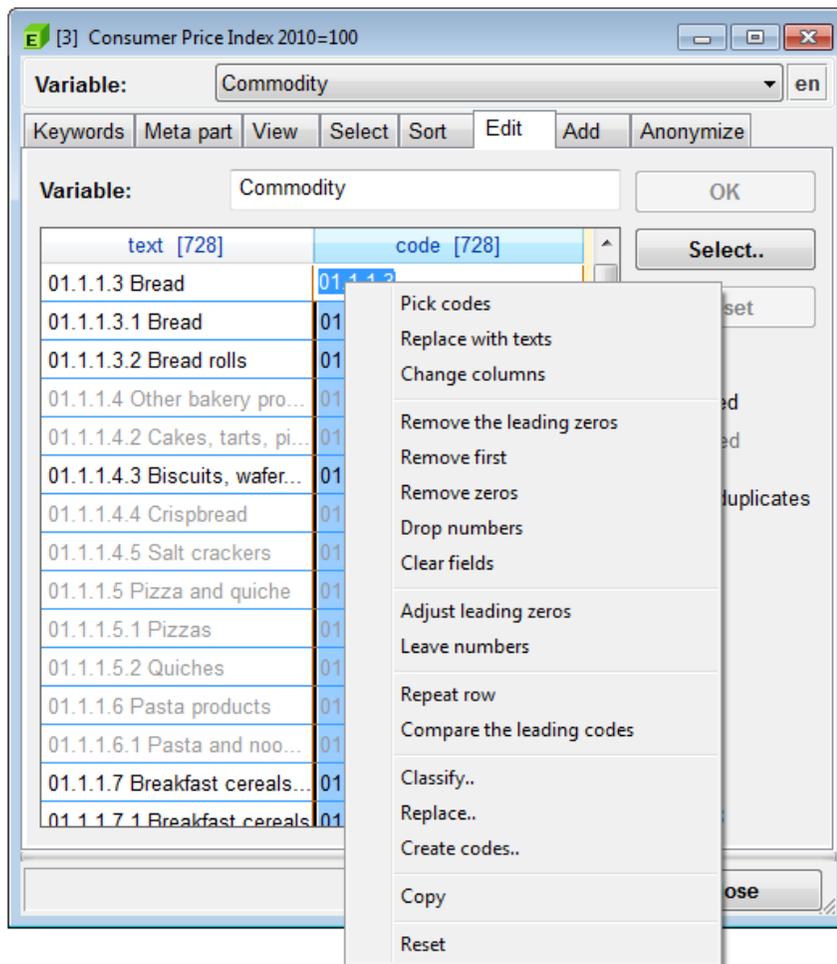
World in Figures version.

	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

Close

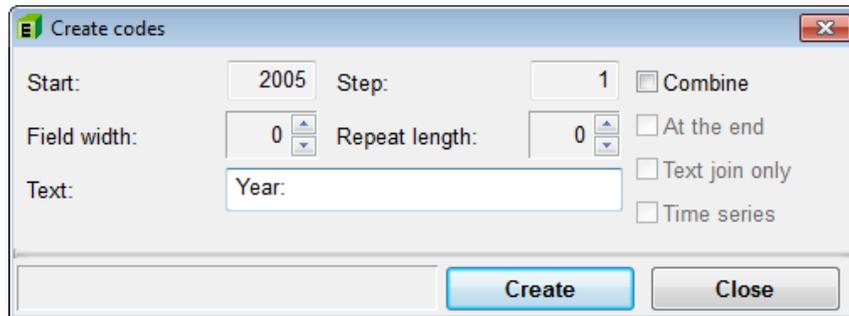
- The upper part shows any file comments
- The lower part shows the different classifications from the table
  - the column headers = the classification titles
  - the row headers = the codes

# 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: 2005 Step: 1  Combine

Field width: 0 Repeat length: 0  At the end

Text: Year:  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

text [751]	code [697]
Gornji Graèec	022004
Gornji Hruševac	020575
Gornji Laduè	020761
Gornji Lukavec	036714
Gornji Marinkovac	020842
Gornji Oštrc	020966
Gornji Prnjarovec	021016
Gornji Stupnik	021113
Gornji Šarapov	024791
Gornji Šarapov	003964
Gornji Tkalec	021172
Gornji Vinkovec	021288
Gornji Vukšinac	021342
Gostoviæ	021512
Graharak	021601

- All the value texts must be **unique**
  - PC-Axis tables cannot function properly with repeated value texts or codes!
- PX-Edit 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

[7] CITI01: Population 1 January by citizenship, age, reporting country ...

Variable: citizenship en

Keywords Meta part View Select Sort Edit Add Anonymize

**New value**

Nordic countries Code: -- enter new value Add empty

Dots equal zero sum Aggregate

Remove the aggregated va Fill item: .. Calculator..

Total  
Denmark  
Finland  
Iceland  
Norway  
Sweden  
other EEA  
other Europe  
Africa  
Canada  
USA  
other America

Select..

Codes  
 Selected

Remove

Fill

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**New variable**

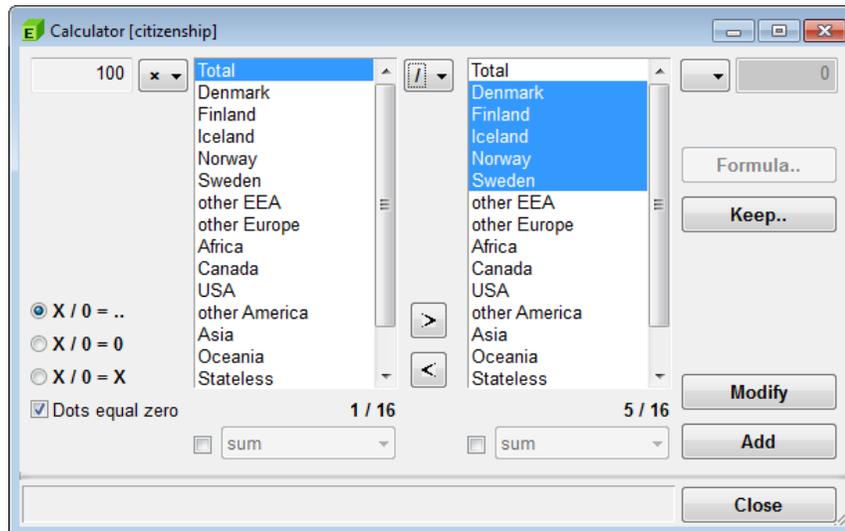
-- enter new variable -- Add

Value: -- enter value text Code: -- enter value code

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:  $x @ \text{left} @ \text{right} @ y$

where:

$x, y$  constants

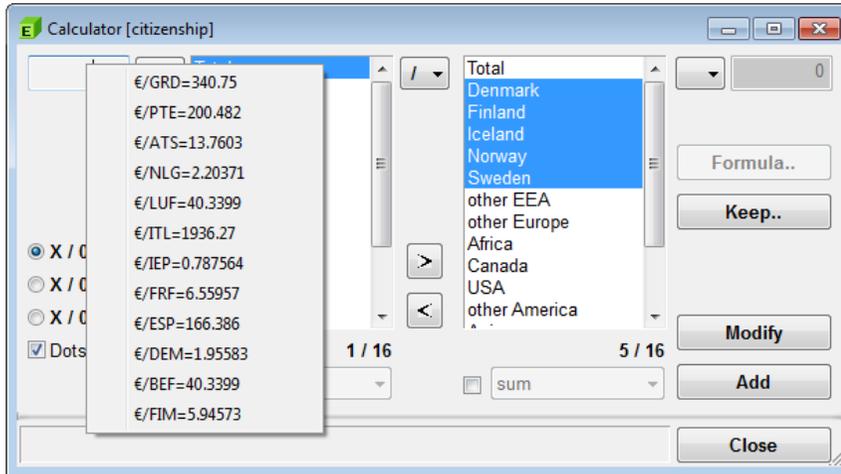
$\text{left}, \text{right}$  selected values or their sum

(the right list is always active)

@ calculating function (+, -,  $\times$ , / or  $\%$ )

NB the function selection activates  
the corresponding input field

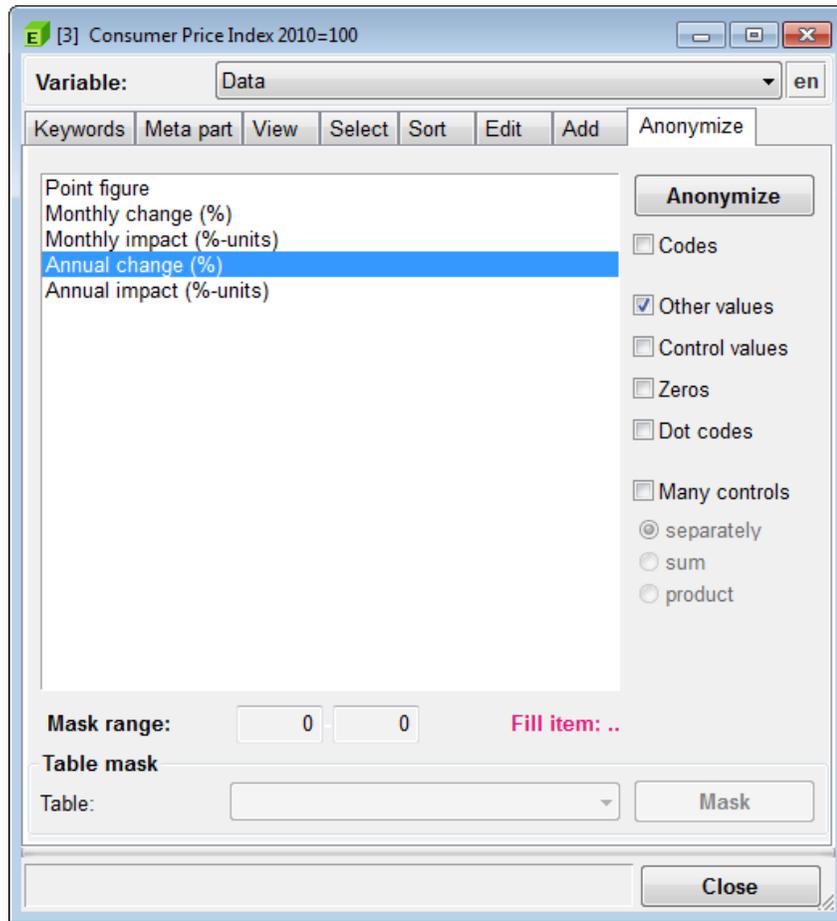
# Calculator: formulae



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

**Metadata editor: Anonymize**

# Anonymize Tab



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

# Anonymize: table mask

[8] CITI01: Population 1 January by citizenship, age, reporting country ...

Variable: citizenship en

Keywords | Meta part | View | Select | Sort | Edit | Add | Anonymize

Total  
Denmark  
Finland  
Iceland  
Norway  
Sweden  
other EEA  
other Europe  
Africa  
Canada  
USA  
other America  
Asia  
Oceania  
Stateless  
Unknown

Anonymize

Codes  
 Other values  
 Control values  
 Zeros  
 Dot codes

separately  
 sum  
 product

Mask range: 0 - 0 Fill item: ..

Table mask

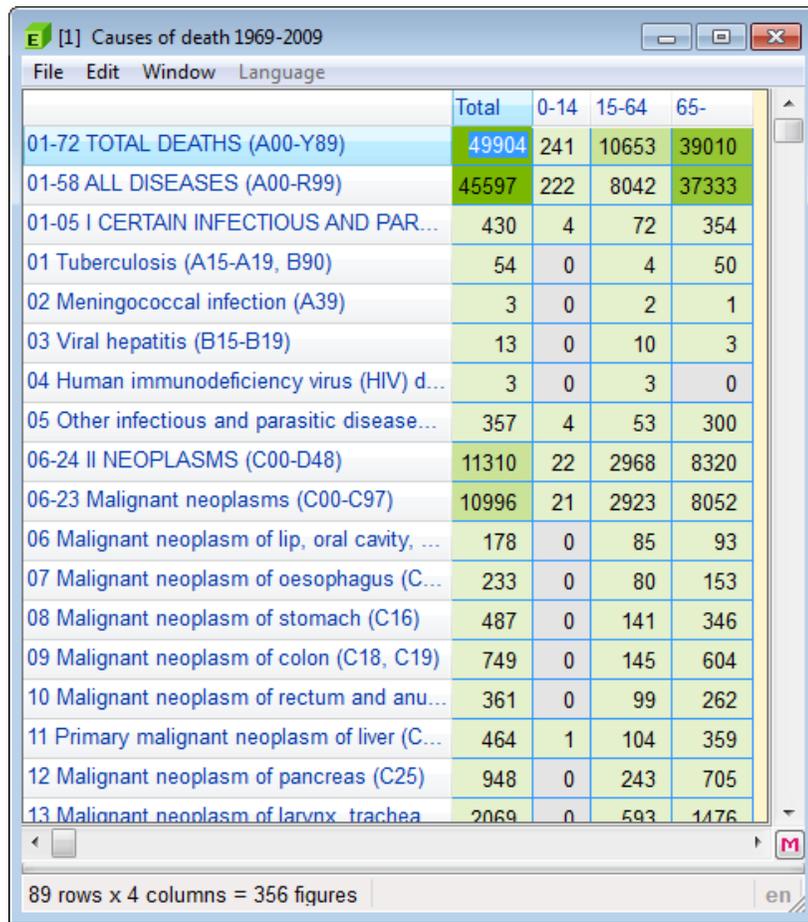
Table: [8] CITI01: Population 1 January by ci Mask

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

# Anonymizing: example

# Original table

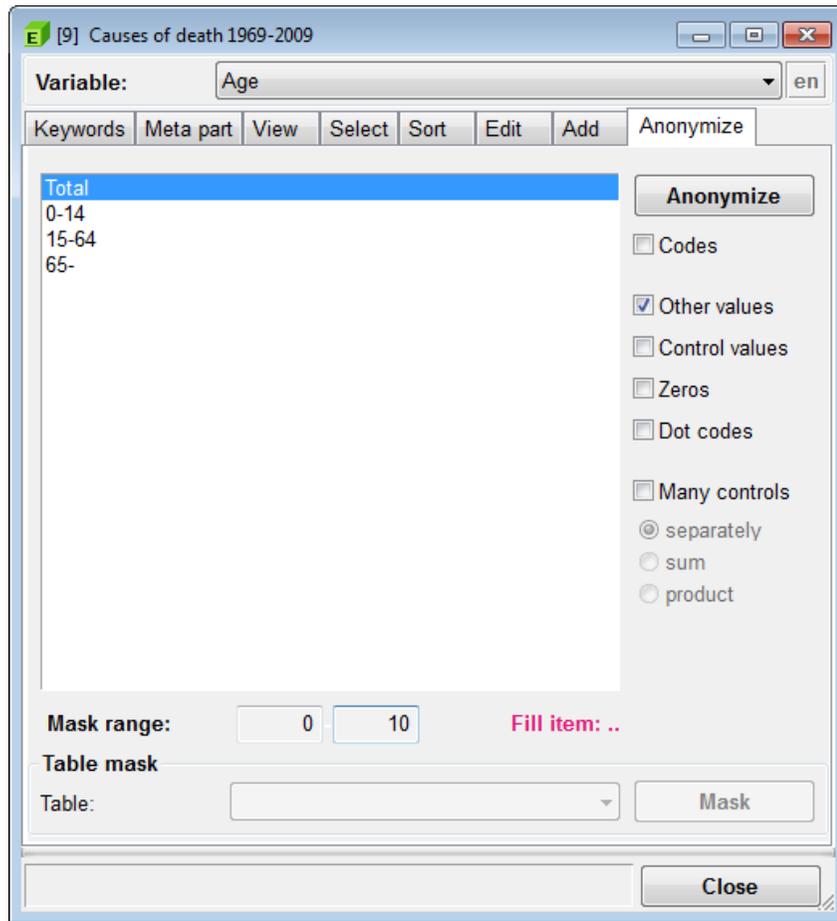


	Total	0-14	15-64	65-
01-72 TOTAL DEATHS (A00-Y89)	49904	241	10653	39010
01-58 ALL DISEASES (A00-R99)	45597	222	8042	37333
01-05 I CERTAIN INFECTIOUS AND PAR...	430	4	72	354
01 Tuberculosis (A15-A19, B90)	54	0	4	50
02 Meningococcal infection (A39)	3	0	2	1
03 Viral hepatitis (B15-B19)	13	0	10	3
04 Human immunodeficiency virus (HIV) d...	3	0	3	0
05 Other infectious and parasitic disease...	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, ...	178	0	85	93
07 Malignant neoplasm of oesophagus (C...	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 anu...	361	0	99	262
11 Primary malignant neoplasm of liver (C...	464	1	104	359
12 Malignant neoplasm of pancreas (C25)	948	0	243	705
13 Malignant neoplasm of larynx, trachea	2069	0	593	1476

89 rows x 4 columns = 356 figures

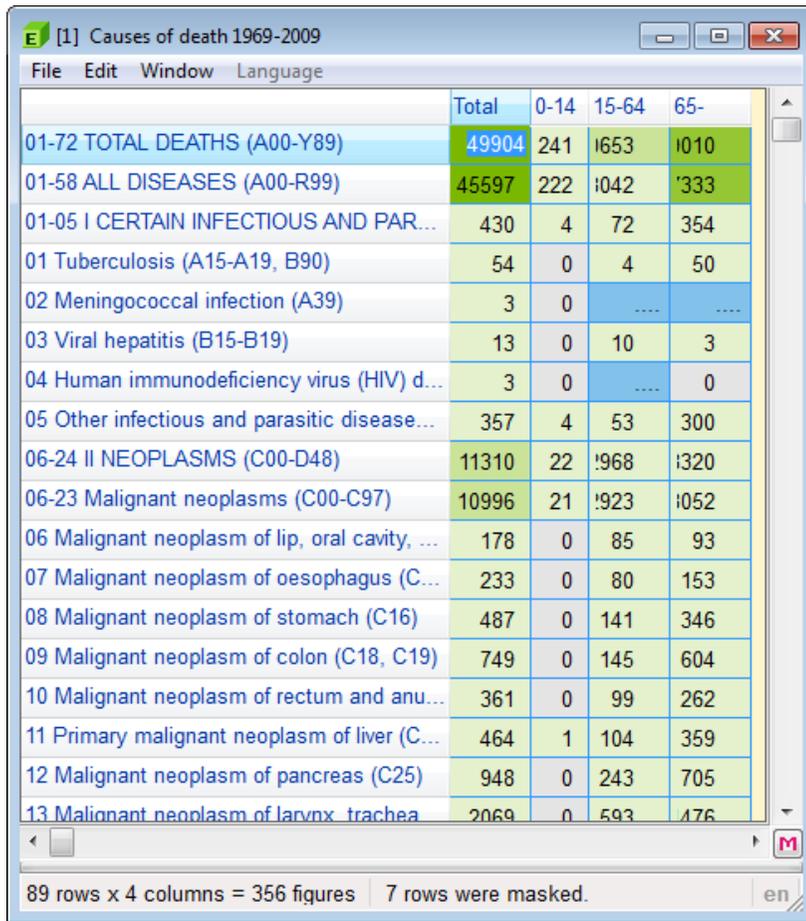
- All the age groups, where **Total** is not greater than 10, should be masked with the *Fill item*

# Needed settings



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

# Anonymized table



	Total	0-14	15-64	65-
01-72 TOTAL DEATHS (A00-Y89)	49904	241	1653	1010
01-58 ALL DISEASES (A00-R99)	45597	222	1042	333
01-05 I CERTAIN INFECTIOUS AND PAR...	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) d...	3	0	....	0
05 Other infectious and parasitic disease...	357	4	53	300
06-24 II NEOPLASMS (C00-D48)	11310	22	1968	1320
06-23 Malignant neoplasms (C00-C97)	10996	21	1923	1052
06 Malignant neoplasm of lip, oral cavity, ...	178	0	85	93
07 Malignant neoplasm of oesophagus (C...	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 anu...	361	0	99	262
11 Primary malignant neoplasm of liver (C...	464	1	104	359
12 Malignant neoplasm of pancreas (C25)	948	0	243	705
13 Malignant neoplasm of larynx, trachea	2069	0	593	1476

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

- 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