



Sistemi poslovne inteligencije

9. nedelja

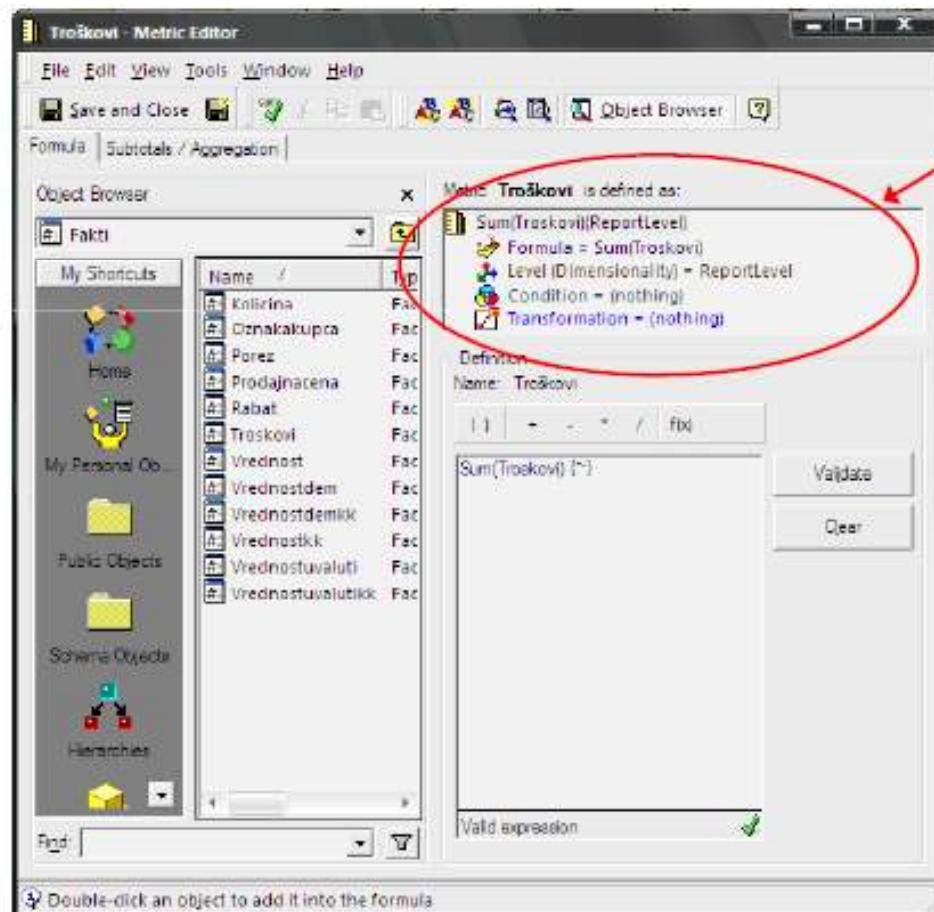
**3. Napredne tehnike-Složene
metrike**

Doc. dr Imre Petković



Složene metrike/mere

Komponente mera – Obavezne komponente su objašnjene ranije



The screenshot shows the 'Troškovi - Metric Editor' window. On the left is an 'Object Browser' pane with categories like 'Fakti', 'My Shortcuts', 'My Personal Obj...', 'Public Objects', and 'Schema Objects'. In the 'Fakti' category, there's a list of objects including 'Kilirina', 'Oznakakupca', 'Porez', 'Prodajnacena', 'Rabat', 'Troškovi', 'Vrednost', 'Vrednostdem', 'Vrednostdemlik', 'Vrednostlik', 'Vrednostvaluti', and 'Vrednostvalutlik'. The right pane displays the metric definition for 'Troškovi'. At the top, it says 'Metric: Troškovi is defined as:'. Below this is a list of components: 'Formula = Sum(Troskovi)', 'Level (Dimensionality) = ReportLevel', 'Condition = (nothing)', and 'Transformation = (nothing)'. A red oval highlights this list. At the bottom of the right pane, there's a 'Definition' section with a 'Name: Troškovi' field, a formula input field containing 'Sum(Troskovi) [~]', and buttons for 'Validate' and 'Clear'. A status bar at the bottom says 'Valid expression' with a green checkmark.

Komponente mera

Obavezne komponente:

- Formula i
- Nivo

Opcionie komponente:

- Uslov i
- Transformacija



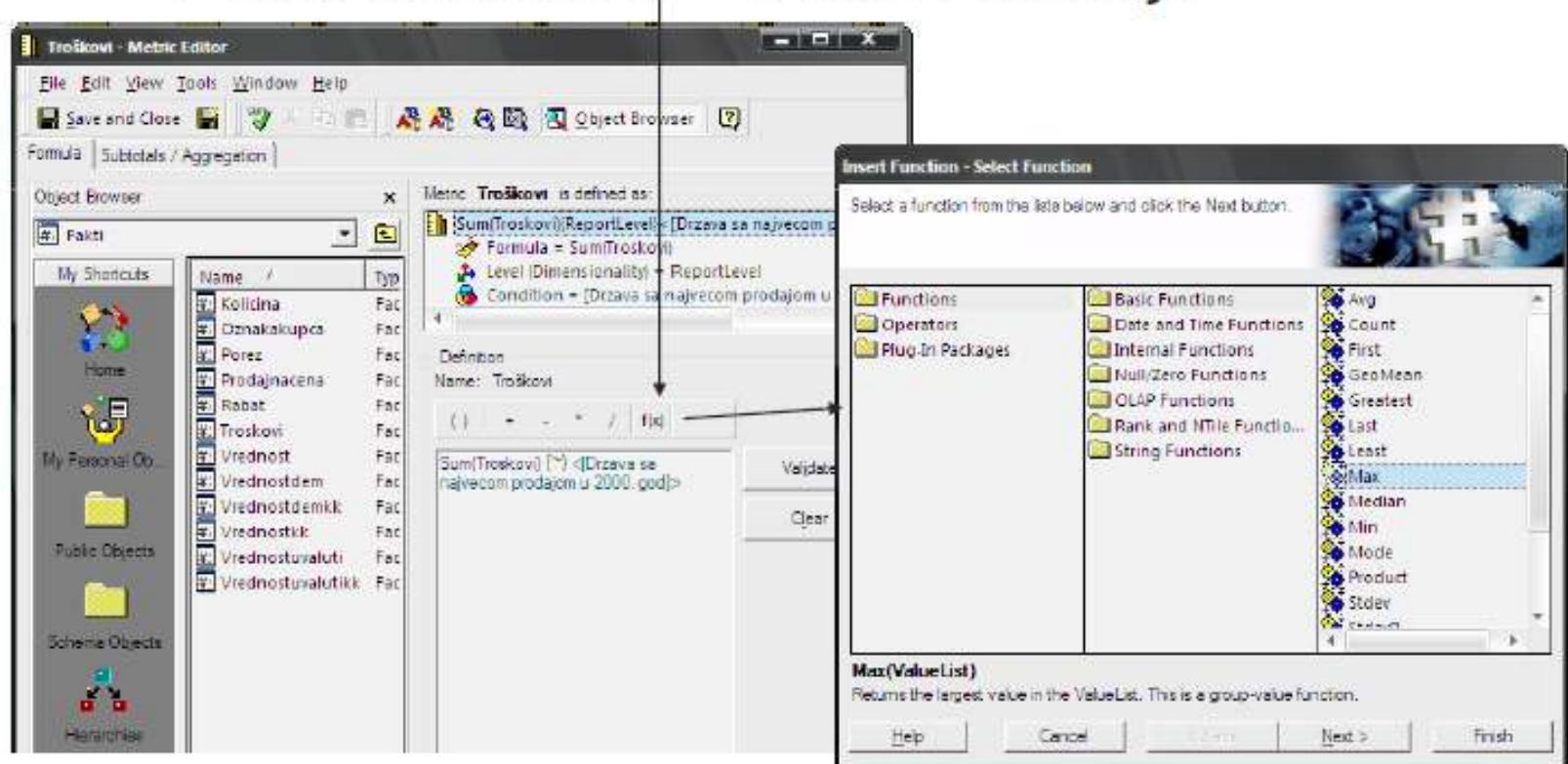
Složene metrike/mere

Komponente mera – Obavezne komponente (Formula i Nivo) su objašnjene ranije

- **Formula** – specificira tip proračuna koji treba izvršiti, a uključuje i činjenice, attribute ili mere kojima se definišu podaci nad kojima će se proračun vršiti.
- **Nivo** (Dimenzionalnost) – specificira nivo na kojem se podaci agregiraju.
- **Uslov** (Conditionality) – omogućuje povezivanje postojećeg filter objekta sa metrikom, kako bi samo podaci koji zadovoljavaju uslov bili uključeni u proračun.
- **Transformacija** – omogućuje povezivanje mere sa nekim objektom transformacione šeme, koji se koristi pri određivanju transformacione vrednosti koja predstavlja osnov za novo filtriranje podataka po nekom atributu isključivo za potrebe izračunavanja vred. ove mere.

Složene metrike/mere

Komponente mera – FORMULA Formula mere – izbor funkcije



The screenshot shows the Metric Editor interface. On the left, the Object Browser displays various objects like 'Fakti', 'My Shortcuts', 'My Personal Obj.', 'Public Objects', 'Schema Objects', and 'Hierarchies'. In the center, the 'Metric Editor' window shows a metric named 'Troškovi' defined as a formula: `Sum(Troškovi) ReportLevel < Drzava sa najvećom prodajom u 2000. godinu>`. The formula includes a condition: `Level(Dimensionality) = ReportLevel` and a condition: `Condition = Drzava sa najvećom prodajom u 2000. godinu`. To the right, a 'Select Function' dialog box is open, titled 'Insert Function - Select Function'. It instructs the user to 'Select a function from the list below and click the Next button.' The dialog lists categories: Functions, Operators, and Plug-In Packages. Under Functions, it lists Basic Functions, Date and Time Functions, Internal Functions, Null/Zero Functions, OLAP Functions, Rank and Ntile Functions, and String Functions. A large list of functions is shown on the right, with 'Max' highlighted. Below the list, the description reads: 'Max(ValueList)
Returns the largest value in the ValueList. This is a group-value function.' At the bottom of the dialog are buttons for Help, Cancel, Next >, and Finish.



Složene metrike/mere

Komponente mera – NIVO

Parametri nivoa mere:

Cilj (Target)

Određuje po kojim atributima će se vršiti grupisanje pri računanju mere.

Grupanje (Grouping)

Grupanjem se određuje kako će se agregirati podaci pri računanju vrednosti mere.

Filtriranje mere (Filtering)

Parametar Filtriranje određuje ponašanje mere (način njenog računanja) u odnosu na filter definisan u izveštaju (report filter).



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

rateav Desktop
UkVrPremije - Metric Editor

Object Browser

Metric **UkVrPremije** is defined as:

- Sum([Iznos Premije])(ReportLevel)
 - Formula = Sum([Iznos Premije])
 - Level (Dimensionality) = ReportLevel
 - Condition = (nothing)
 - Transformation = (nothing)

Definition
Name: UkVrPremije

() + - * / f(x)

Sum([Iznos Premije]) {~+}

rateav Desktop
UkVrPremije-Rep-Mes - Metric Editor

Object Browser

Metric **UkVrPremije-Rep-Mes** is defined as:

- Sum([Iznos Premije])(ReportLevel, GodinaMesecSklapanjaPolise)
 - Formula = Sum([Iznos Premije])
 - Level (Dimensionality) = ReportLevel, GodinaMesecSklapanjaPolise
 - Condition = (nothing)
 - Transformation = (nothing)

Definition
Name: UkVrPremije-Rep-Mes

() + - * / f(x)

Sum([Iznos Premije]) {~+} (GodinaMesecSklapanjaPolise)

rateav Desktop
UkVrPremije-Mes - Metric Editor

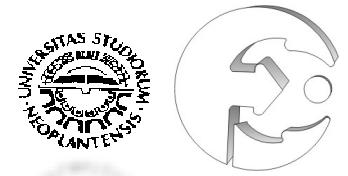
Object Browser

Metric **UkVrPremije-Mes** is defined as:

- Sum([Iznos Premije])(GodinaMesecSklapanjaPolise)
 - Formula = Sum([Iznos Premije])
 - Level (Dimensionality) = GodinaMesecSklapanjaPolise
 - Condition = (nothing)
 - Transformation = (nothing)

Definition
Name: UkVrPremije-Mes

() + - * / f(x)



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report

File Edit View Insert Format Data Grid Move Window Help

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Report objects

Name

- GodinaMesecSklapanjaPolise
- RadnikSklapanjaPolise
- UkVrPremije-Mes
- UkVrPremije-Rep
- UkVrPremije-Rep-Mes

Report details

View filter

GodinaMesecSklapanjaPolise	RadnikSklapanjaPolise	Metrics	UkVrPremije-Rep	UkVrPremije-Rep-Mes	UkVrPremije-Mes
2006-1	1 100100 2103957505079 Petar Petrovic	22,800	22,800	409,300	
	2 100101 3108965292901 Lazar Lazarevic	5,000	5,000	409,300	
	3 100102 1201950909010 Ema Tot	61,550	61,550	409,300	
	4 100103 1101969202031 Iva Ras	40,850	40,850	409,300	
	5 100104 1504980202030 Rada Radic	32,400	32,400	409,300	
	6 100105 1607981303021 Marko Markovic	22,750	22,750	409,300	
	7 100106 1908983909021 Sima Simic	17,500	17,500	409,300	
	8 100107 3108984505031 Dragana Dragic	5,000	5,000	409,300	
	9 100108 2902977303229 Marina Maric	27,400	27,400	409,300	
	10 100109 1612979202087 Milan Milanovic	32,450	32,450	409,300	
	11 100201 2304980505000 Sanja Stojcic	22,800	22,800	409,300	
	12 100202 2305981505001 Marina Radic	32,050	32,050	409,300	
	13 100203 1001954101000 Dragana Maric	35,200	35,200	409,300	
	14 100204 1101964101001 Biljana Jugovic	25,550	25,550	409,300	
	15 100205 1303984101002 Jelena Vukovic	16,100	16,100	409,300	
	16 100206 1101964101003 Ivana Jugo	9,900	9,900	409,300	
	17 100207 1101974101004 Maja Tumbas	14,550	14,550	346,600	
	18 100208 1002972500500 Sonja Trninic	9,900	9,900	346,600	
	19 100209 1102972500501 Sanja Bodnjak	11,300	11,300	346,600	
	20 100210 1302982500502 Vanja Rodic	14,550	14,550	346,600	
	21 100211 1402982500503 Tanja Ivanićevic	2,500	2,500	346,600	
	22 100212 1502982500504 Ivo Vrdoljak	9,900	9,900	346,600	
	23 100213 1602984500505 Petar Petrovic	9,900	9,900	346,600	
	24 100214 1702983500506 Sima Dukic	9,900	9,900	346,600	
	25 100215 1802982500507 Dragan Vukovic	11,300	11,300	346,600	
	26 100216 1902981500508 Viktor Trojak	9,900	9,900	346,600	
	27 100217 2002982500509 Nenad Zimak	2,500	2,500	346,600	
	28 100218 2102976500510 Branko Brankovic	9,900	9,900	346,600	
	29 100219 2202976500511 Bojan Radenkovic	10,700	10,700	346,600	

Execution complete

Execution Time: 00:00:05 Rows: 676 Columns: 3 Local Template Standard

Windows Taskbar icons: File Explorer, Google Chrome, File Manager, Control Panel, Task View, PDF, Microsoft Word, Microsoft Excel.

Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report

File Edit View Insert Format Data Grid Move Window Help

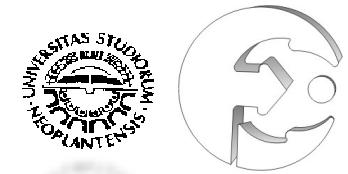
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Report objects x Report details

	GodinaSkupanjaPolisa	GodinaMesecSkupanjaPolisa	GodinaMesecSklapanjaPolisa	Metrica	UkVrPremije-Rasp	UkVrPremije-Rep-Mes	UkVrPremije-Mes
100100 2103957505079 - Peter Petrović	2006	2006-1	2006-1	11,300	11,300	489,300	
		2006-2	2006-2	11,500	11,500	489,300	
		2006-3	2006-26	11,300	11,300	638,250	
		2006-7	2006-29	23,500	23,500	547,100	
		2007-1	2007-4	11,500	11,500	558,550	
		2007-2	2007-6	22,500	22,500	643,500	
	2007-7	2007-30	2,650	2,650	438,150		
	2007-8	2007-32	11,500	11,500	753,100		
	2007-12	2007-50	8,500	8,500	645,550		
		2007-52	31,300	31,300	645,550		
100101 3103965202901 - Lazar Lazarević	2006	2006-1	2006-1	2,500	2,500	489,300	
		2006-2	2006-2	2,500	2,500	489,300	
		2006-7	2006-27	12,700	12,700	547,100	
		2006-29	2006-29	12,700	12,700	547,100	
		2007-1	2007-4	17,500	17,500	558,550	
		2007-2	2007-6	12,850	12,850	643,500	
	2007-7	2007-30	11,300	11,300	438,150		
	2007-8	2007-32	17,500	17,500	753,100		
	2007-12	2007-50	12,700	12,700	645,550		
		2007-52	29,900	29,900	645,550		
100102 1201950909010 - Ena Tel	2006	2006-1	2006-1	39,000	39,000	489,300	
		2006-2	2006-2	22,500	22,500	489,300	
		2006-7	2006-27	8,500	8,500	547,100	
		2006-29	2006-29	22,500	22,500	547,100	
		2007-1	2007-4	42,500	42,500	558,550	
		2007-2	2007-7	22,500	22,500	643,500	
	2007-7	2007-30	14,500	14,500	438,150		
	2007-8	2007-32	42,500	42,500	753,100		

Execution complete Execution Time: 00:00:01 Rows: 899 Columns: 3 Local Template: Standard

11:56 AM Intel® HD Graphics 7/2017



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Print Copy Find Replace Undo Redo Rows Values Anal 8 Western \$ % + 20 21 - 2A -

Report objects x Report details

Name

- GodinaNedelj
- GodinaSklapa
- RadnikSklapa
- UKvPrestje
- UKvPrestje
- UKvPrestje

			GodinaSklapanjaPolica	GodinaNedeljaSklapanjaPolica	Metric	UKvPrestje-Rep	UKvPrestje-Rep-Max	UKvPrestje-Max
1	188188 2103967506079 Peter	Petrović	2006	2006-1	11,388	11,388	13,888,950	
				2006-2	11,588	11,588	13,888,950	
				2006-26	11,388	11,388	13,888,950	
				2006-28	23,500	23,500	13,888,950	
				2007-30	2,666	2,666	13,888,950	
			2007	2007-32	11,588	11,588	13,888,950	
				2007-4	11,588	11,588	13,888,950	
				2007-50	8,500	8,500	13,888,950	
				2007-52	91,388	91,388	13,888,950	
				2007-8	22,500	22,500	13,888,950	
2	188181 3100985292901 Lazar	Lazarević	2006	2006-1	2,588	2,588	13,888,950	
				2006-2	2,500	2,500	13,888,950	
				2006-27	12,788	12,788	13,888,950	
				2006-28	12,700	12,700	13,888,950	
				2007-30	11,388	11,388	13,888,950	
			2007	2007-32	17,500	17,500	13,888,950	
				2007-4	17,500	17,500	13,888,950	
				2007-50	12,700	12,700	13,888,950	
				2007-52	29,900	29,900	13,888,950	
				2007-8	12,888	12,888	13,888,950	
3	188182 1201960909010 Enes	Tih	2006	2006-1	39,958	39,958	13,888,950	
				2006-2	22,500	22,500	13,888,950	
				2006-27	8,500	8,500	13,888,950	
				2006-28	22,500	22,500	13,888,950	
				2007-30	14,558	14,558	13,888,950	
			2007	2007-32	42,500	42,500	13,888,950	
				2007-4	42,500	42,500	13,888,950	
				2007-50	9,000	9,000	13,888,950	
				2007-52	23,500	23,500	13,888,950	

Execution complete Execution Time: 00:00:01 Rows: 727 Columns: 3 Local Template Standard



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

rateav Desktop
UkVrPremije - Metric Editor

Object Browser | ?

Metric **UkVrPremije** is defined as:

- Sum([Iznos Premije])(ReportLevel)
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Definition

Name: UkVrPremije

() + - * / f(x)

Sum([Iznos Premije]) {~+}

rateav Desktop
UkVrPremije-Rep-OpstinaExp - Metric Editor

Object Browser | ?

Metric **UkVrPremije-Rep-OpstinaExp** is defined as:

- Sum([Iznos Premije])(ReportLevel, OpstinaEkspoziture)
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel, OpstinaEkspoziture
- Condition = (nothing)
- Transformation = (nothing)

Definition

Name: UkVrPremije-Rep-OpstinaExp

() + - * / f(x)

rateav Desktop
UkVrPremije-OpstinaExp - Metric Editor

Object Browser | ?

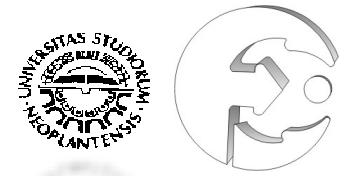
Metric **UkVrPremije-OpstinaExp** is defined as:

- Sum([Iznos Premije])(OpstinaEkspoziture)
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = OpstinaEkspoziture
- Condition = (nothing)
- Transformation = (nothing)

Definition

Name: UkVrPremije-OpstinaExp

() + - * / f(x)



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name

- Ekspozitura
- GodinaSklapanjaPolise
- UkVrPremije-OpstinaExp
- UkVrPremije-Rep
- UkVrPremije-Rep-OpstinaExp

Report details

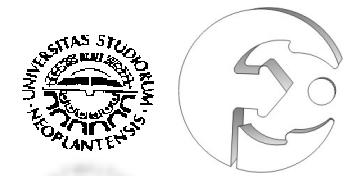
View filter

GodinaSklapanjaPolise	Ekspozitura	Metrics	UkVrPremije-Rep	UkVrPremije-Rep-OpstinaExp	UkVrPremije-OpstinaExp
2006	NS AUTO 1	47,400	562,200	1,301,400	
	NS AUTO 2	190,850	562,200	1,301,400	
	Autoservis Milanovic	107,600	562,200	1,301,400	
	Autoservis Pera	109,300	562,200	1,301,400	
	Autoservis Simic	107,050	562,200	1,301,400	
	Autoservis Milanovic	62,550	668,800	1,739,150	
	AMSS 3	62,300	668,800	1,739,150	
	Autoservis Lalic	257,750	668,800	1,739,150	
	Autoservis Brkic	286,200	668,800	1,739,150	
	AMSS 4	236,500	541,300	1,182,750	
	Autoservis Vukovic	304,800	541,300	1,182,750	
	Autoservis Radosevic	416,350	740,100	1,224,150	
	AMSS 5	323,750	740,100	1,224,150	
	AMSS 6	410,200	1,497,600	2,849,500	
	Autoservis Lames	299,550	1,497,600	2,849,500	
	Autoservis Radic	242,300	1,497,600	2,849,500	
	Autoservis Komar	261,500	1,497,600	2,849,500	
	Autoservis Distrikt	284,050	1,497,600	2,849,500	
	AMSS 7	205,850	1,911,350	3,685,150	
	AMSS 8	477,700	1,911,350	3,685,150	
	AS Matkovic	317,700	1,911,350	3,685,150	
	AS Rokvic	295,800	1,911,350	3,685,150	
	Autoservis Burdus	337,250	1,911,350	3,685,150	
	AMSS 9	277,050	1,911,350	3,685,150	
	AMSS 10	377,700	377,700	582,000	
	AS Hadzic	252,700	252,700	607,550	
	Autoservis Dzinovic	57,150	120,650	273,600	
	AS Neimarlija	63,500	120,650	273,600	
	AMSS 14	105,050	105,050	105,050	

Execution complete Execution Time: 00:00:01 Rows: 60 Columns: 3 Local Template Standard

19 Ob

A standard Windows taskbar showing various application icons like File Explorer, Google Chrome, and Microsoft Word.



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Report object x Report details

Name

- Eksportura
- Godina Sklape
- Opcionalkaputre
- UKvPrestje
- UKvPrestje
- UKvPrestje

Godina Sklape/Pokaz.	Opcionalkaputre/Eksportura	Meres	UkVrPremije-Rep-UkVrPremije-Rep-Opcionalkaputre	UkVrPremije-Opcionalkaputre
2000	Backa Palanka	Autoservis Milutinovic	62.568	668.800
		AMSS 3	62.388	668.800
		Autoservis Latic	257.758	668.800
		Autoservis Brne	286.288	668.800
		Backa Topola	238.588	541.200
	Novi Sad	Autoservis Vukovac	304.888	541.200
		AS Hadzic	252.700	252.700
		Kanica	57.156	128.650
		Kraljevo	63.588	128.650
		Autoservis Radosevic	416.358	748.100
Sombor	AMSS 5	323.758	748.100	
	HS AUTO 1	47.488	562.200	
	HS AUTO 2	190.858	562.200	
	Autoservis Milutinovic	107.688	562.200	
	Autoservis Peru	109.308	562.200	
	Autoservis Siroc	107.658	562.200	
	Zrenjanin	AMSS 10	377.788	377.700
		AMSS 7	205.868	1.911.350
		AMSS 8	477.788	1.911.350
		AS Matkovic	317.788	1.911.350
AS Rokvic		295.888	1.911.350	
Vrbas	Autoservis Burdus	337.258	1.911.350	
	AMSS 9	277.888	1.911.350	
	AMSS 6	410.288	1.497.600	
	Autoservis Lamas	299.558	1.497.600	
	Autoservis Radio	242.388	1.497.600	
Krnjevo	Autoservis Krsman	261.588	1.497.600	
	Autoservis Dizdari	284.688	1.497.600	
Zrenjanin	AMSS 11	105.988	155.950	
			421.700	

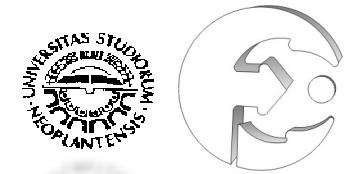
Execution complete Execution Time: 00:00:01 Rows: 60 Columns: 3 Local Template: Standard

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Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)



Složene metrike/mere

Komponenta mere – NIVO – parametar - Cilj (Target)

New Report (1)

Godina Sklapanja Polisa	Mesec Godina Sklapanja Polisa	Opatnina/Ekspozitura	Ekspozitura	Biro/loc	UKv/Premije-Rep	UKv/Premije-Rep-OpatninaExp	UKv/Premije-OpatninaExp
			Autoservis Milenovic	9.986	33.600	1.739.150	
			AMSS 3	11.388	33.600	1.739.150	
			Autoservis Lajic	2.588	33.600	1.739.150	
			Autoservis Briz	9.986	33.600	1.739.150	
			Becka Palacka				
			AMSS 4	9.986	21.400	1.182.750	
			Autoservis Vukovic	11.588	21.400	1.182.750	
			Krnjic	AS HITKO	11.388	11.000	687.500
			Kilinda	Autoservis Sumanovic	14.550	27.250	273.600
			Kale	AS Nemanjic	12.788	27.250	273.600
			Autoservis Radosavljevic	17.588	48.000	1.224.150	
			AMSS 5	22.588	48.000	1.224.150	
			Novi Sad	NS AUTO 1	21.288	188.650	1.381.400
				NS AUTO 2	2.588	188.650	1.381.400
				Autoservis Milenovic	39.658	188.650	1.381.400
				Autoservis Perka	28.988	188.650	1.381.400
				Autoservis Simic	9.988	188.650	1.381.400
			Senta	AMSS 10	22.588	22.550	582.000
				AMSS 7	12.288	74.400	3.685.150
				AMSS 8	22.588	74.400	3.685.150
			Sombor	AS Matonic	12.858	74.400	3.685.150
				AS Ristic	6.288	74.400	3.685.150
				Autoservis Bunduz	2.588	74.400	3.685.150
				AMSS 9	17.588	74.400	3.685.150
			Vrbas	AMSS 6	12.858	55.550	2.849.500
				Autoservis Lajic	9.288	55.550	2.849.500
				Autoservis Balic	11.588	55.550	2.849.500
				Autoservis Konar	2.588	55.550	2.849.500
			Zrenjanin	Autoservis Distrik	22.588	55.550	2.849.500
				AMSS 11	12.788	22.600	421.700

Složene metrike/mere

Komponenta mere – **NIVO** – parametar - Grupisanje (Grouping)

Grupisanjem se određuje kako će se agregirati podaci pri računanju vrednosti mere.

Opcije grupisanja su:

- ❖ Standardno (Standard) – podaci se grapišu na nivou atributa specificiranog u cilju (target)
- ❖ Bez (None) – Isključuje ciljne attribute (i njihovu decu) iz grupisanja. Ovakvo podešavanje izračunava jedan total za ciljni (target) atribut i svaki od njegovih podređenih atributa uključenih u templejt izveštaja.



Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

CREATEV Desktop
VrPremije-Rep-OpstinaExp - Metric Editor

Object Browser |

Metric **UkVrPremije-Rep-OpstinaExp** is defined as:

- Sum([Iznos Premije]) {ReportLevel, OpstinaEkspoziture}
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel, OpstinaEkspoziture
- Condition = (nothing)
- Transformation = (nothing)

Level (Dimensionality)

Target	Filtering	Grouping
Report Level	standard	standard
OpstinaEkspoziture	standard	standard

CREATEV Desktop
VrPremije-Rep-OpstinaExpGroupNone - Metric Editor

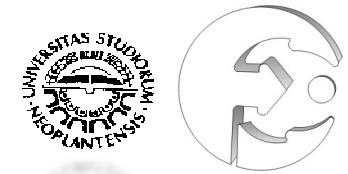
Object Browser |

Metric **UkVrPremije-Rep-OpstinaExpGroupNone** is defined as:

- Sum([Iznos Premije]) {ReportLevel, OpstinaEkspoziture}
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel, OpstinaEkspoziture
- Condition = (nothing)
- Transformation = (nothing)

Level (Dimensionality)

Target	Filtering	Grouping
Report Level	standard	standard
OpstinaEkspoziture	standard	None



Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

New Report (2)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Print Copy Paste Find Go Back Go Forward

Corporate

Report objects

Name

- Ekipozitura
- GodinaSkupanjaPolice
- UKVrPremije-OptimalnaExp
- UKVrPremije-Rep
- UKVrPremije-Rep-OptimalnaExp
- UKVrPremije-Rep-OptimalnaExp

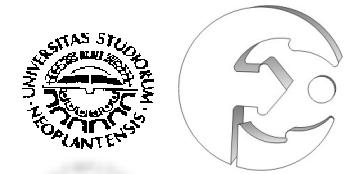
Report details

GodinaSkupanjaPolice	Ekipozitura	Metrica	UKVrPremije-Rep	UKVrPremije-Rep-OptimalnaExp	UKVrPremije-Rep-OptimalnaExpGroup	UKVrPremije-OptimalnaExp
2009	NS AUTO 1	47,488	562,200	6,828,354	1,301,488	
	NS AUTO 2	190,888	562,200	6,828,354	1,301,488	
	Autoservis Milenovic	107,688	562,200	6,828,354	1,301,488	
	Autoservis Peris	109,388	562,200	6,828,354	1,301,488	
	Autoservis Siro	107,688	562,200	6,828,354	1,301,488	
	Autoservis Milenovic	62,588	668,800	6,828,354	1,739,158	
	AMSS 3	62,188	668,800	6,828,354	1,739,158	
	Autoservis Lalic	257,758	668,800	6,828,354	1,739,158	
	Autoservis Brko	296,288	668,800	6,828,354	1,739,158	
	AMSS 4	236,588	541,300	6,828,354	1,182,758	
	Autoservis Veljkovic	304,888	541,300	6,828,354	1,182,758	
	Autoservis Radenkovic	418,388	745,100	6,828,354	1,224,158	
	AMSS 5	323,758	745,100	6,828,354	1,224,158	
	AMSS 6	410,288	1,487,600	6,828,354	2,849,588	
	Autoservis Latices	299,558	1,487,600	6,828,354	2,849,588	
	Autoservis Radic	242,388	1,487,600	6,828,354	2,849,588	
	Autoservis Kostic	261,588	1,487,600	6,828,354	2,849,588	
	Autoservis Dafniit	294,858	1,487,600	6,828,354	2,849,588	
	AMSS 7	206,858	1,911,350	6,828,354	3,695,158	
	AMSS 8	477,708	1,211,350	6,828,354	2,625,158	
AS Mihajlic	317,788	1,911,350	6,828,354	3,695,158		
AS Rokolic	295,808	1,911,350	6,828,354	3,695,158		
Autoservis Burduš	307,258	1,911,350	6,828,354	3,695,158		
AMSS 9	277,858	1,911,350	6,828,354	3,695,158		
AMSS 10	377,788	377,700	6,828,354	582,488		
AS Hadzic	252,788	252,700	6,828,354	607,588		
Autoservis Djordjevic	57,158	126,650	6,828,354	273,888		
AS Nešić	63,588	126,650	6,828,354	273,888		
AMSS 11	105,958	155,950	6,828,354	401,788		
AMSS 12	50,000	155,950	6,828,354	401,788		
NS AUTO 1	192,858	739,200	7,038,688	1,301,488		

Execution complete

Execution Time: 00:00:02 | Rows: 60 | Columns: 4 | Local Template | Standard

11:00 PM
11/10/2017



Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Print Preview Properties Options

Corporate - Row Values Anal * 8 * Western \$ % + 10.23 + - 0.23 ▲ ▼

Report objects X

Name

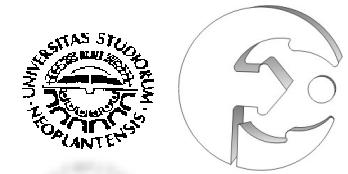
- GodinaSklopi
- OptimalnaKapaciteta
- UKvPrestije
- UKvPrestije
- UKvPrestije
- UKvPrestije

Report details

GodinaSklopanjaPolice	OptimalnaKapaciteta	Ekspozitura	Mjerilo	UKvPrestije-Rep	UKvPrestije-Rep-OptimalnaExp	UKvPrestije-Rep-OptimalnaExpGroupNone	UKvPrestije-OptimalnaExp
2006	Bečki Palata	Autoservis Mlađević	62,568	666,800	6,620,356	1,739,156	
		AMSS-3	62,348	666,800	6,620,356	1,739,156	
		Autoservis Latić	257,758	666,800	6,620,356	1,739,156	
		Autoservis Brkić	296,288	666,800	6,620,356	1,739,156	
		AMSS-4	236,500	541,300	6,620,356	1,162,756	
	Nexi Sad	Autoservis Vuković	304,888	541,300	6,620,356	1,162,756	
		AS Hadžić	252,700	252,700	6,620,356	607,556	
		Kikinda	Autoservis Đorđević	57,158	128,650	6,620,356	273,668
		AS Neimarja	63,500	128,650	6,620,356	273,668	
		2007	Kraljevo	Autoservis Radosević	416,356	748,100	6,620,356
AMSS-5	323,750			748,100	6,620,356	1,224,156	
MS AUTO 1	47,488			562,200	6,620,356	1,301,488	
MS AUTO 2	190,856			562,200	6,620,356	1,301,488	
Autoservis Mlađević	107,688			562,200	6,620,356	1,301,488	
Sremska Mitrovica	Autoservis Perić		109,300	562,200	6,620,356	1,301,488	
	Autoservis Brkić		107,954	562,200	6,620,356	1,301,488	
	AMSS-10		377,700	377,700	6,620,356	562,000	
	AMSS-7		205,858	1,811,350	6,620,356	3,685,156	
	AMSS-3		477,700	1,811,350	6,620,356	3,685,156	
Vršac	AS Matićević	317,788	1,811,350	6,620,356	3,685,156		
	AS Robić	295,600	1,811,350	6,620,356	3,685,156		
	Autoservis Burduš	937,256	1,811,350	6,620,356	3,685,156		
	AMSS-9	277,956	1,811,350	6,620,356	3,685,156		
	AMSS-6	410,288	1,487,600	6,620,356	2,849,500		
Zrenjanin	Autoservis Lameš	299,558	1,487,600	6,620,356	2,849,500		
	Autoservis Radić	242,388	1,487,600	6,620,356	2,849,500		
	Autoservis Komar	261,500	1,487,600	6,620,356	2,849,500		
	Autoservis Distrīkt	284,858	1,487,600	6,620,356	2,849,500		
Zrenjanin	AMSS-11	105,956	155,956	6,620,356	421,700		

Execution complete: 11:09 PM 5/10/2012

Execution Time: 00:00:01 Rows: 60 Columns: 4 Local Template Standard



Složene metrike/mere

Komponenta mere – **NIVO** – parametar - Grupisanje (Grouping) –scroll prethonog izveštaja

New Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Anal Western \$ % % 100% 0% 0% 0%

UKV/Premije > Values

Report objects

Name

- Ekipacija
- GodinaSklop
- OpcionaEkipa
- UKV/Premije
- UKV/Premije
- UKV/Premije
- UKV/Premije

Report details

2006	Balka Pančeva	AMSS 3	62.386	566.800	6.620.358	1.739.158	
		Autoservis Lekić	297.758	668.800	6.620.358	1.739.158	
		Autoservis Blaškić	296.288	668.800	6.620.358	1.739.158	
		AMSS 4	236.508	541.300	6.620.358	1.162.758	
		Autoservis Vuković	304.888	541.300	6.620.358	1.162.758	
		AS Hadžić	252.700	252.700	6.620.358	607.558	
		Autoservis Đorđević	57.156	129.850	6.620.358	273.688	
		AS Neimarlić	63.500	129.850	6.620.358	273.688	
		Kralj	Autoservis Radosević	416.358	748.100	6.620.358	1.224.158
			AMSS 5	323.758	748.100	6.620.358	1.224.158
2007	M9 AUTO 1		47.488	562.200	6.620.358	1.301.488	
	M9 AUTO 2		190.858	562.200	6.620.358	1.301.488	
	New Sat	Autoservis Milutinović	107.688	562.200	6.620.358	1.301.488	
		Autoservis Perić	109.300	562.200	6.620.358	1.301.488	
		Autoservis Šešić	107.858	562.200	6.620.358	1.301.488	
		AMSS 10	377.700	377.700	6.620.358	562.000	
		AMSS 7	205.854	1.911.350	6.620.358	3.685.158	
		AMSS 8	477.700	1.911.350	6.620.358	3.685.158	
		Stimber	AS Matović	317.788	1.911.350	6.620.358	3.685.158
			AS Rožić	295.888	1.911.350	6.620.358	3.685.158
2008	Autoservis Burduš	337.258	1.911.350	6.620.358	3.685.158		
		AMSS 9	277.858	1.911.350	6.620.358	3.685.158	
		AMSS 6	410.288	1.487.600	6.620.358	2.849.588	
			Autoservis Lazić	299.558	1.487.600	6.620.358	2.849.588
		Vrbas	Autoservis Radić	242.388	1.487.600	6.620.358	2.849.588
			Autoservis Končar	261.588	1.487.600	6.620.358	2.849.588
			Autoservis Džurić	294.858	1.487.600	6.620.358	2.849.588
		Zrenjanin	AMSS 11	105.928	155.950	6.620.358	421.788
			AMSS 12	50.888	155.950	6.620.358	421.788
		Balka Pančeva	Autoservis Milutinović	192.758	1.076.350	7.038.688	1.739.158
		AMSS 3	160.188	1.076.350	7.038.688	1.739.158	

Execution complete

Execution Time: 00:00:01 Rows: 60 Columns: 4 Local Template: Standard

16:42 PM 5/17/2012

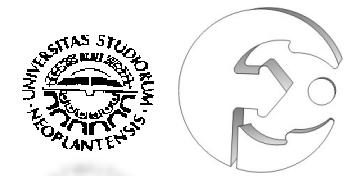
Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

Grupisanje-2

GodinaSkupanjaPolice	Mesec(GodinaSkupanjaPolice)	OpcionalnaExposure	Ekapostura	Metrica	UkVrPremije-Rep	UkVrPremije-Rep-OpcionalExp	UkVrPremije-Rep-OpcionalExpGroupione	UkVrPremije-OpcionalExp
januar	Becka Palanka	AMSS 3	Autoservis Mlinarevic	9.900	33.600	409.386	1,7	
			AS Radoc	11.300	33.600	409.386	1,7	
			Autoservis Lalic	2.500	33.600	409.386	1,7	
			Autoservis Brlic	9.900	33.600	409.386	1,7	
			Autoservis Topala	9.900	21.400	409.386	1,11	
	Becka Topala	AMSS 4	Autoservis Veljkovic	11.500	21.400	409.386	1,11	
			AS Radoc	11.300	21.400	409.386	1,11	
			Autoservis Dzankovic	14.550	27.250	409.386	2	
			AS Nemirija	12.700	27.250	409.386	2	
			Autoservis Radosevic	17.500	46.000	409.386	1,2	
Novi Sad	Kraljevo	AMSS 5	AS AUTO 1	21.200	188.650	409.386	1,0	
			AS AUTO 2	2.500	188.650	409.386	1,0	
			Autoservis Mlinarevic	39.650	188.650	409.386	1,0	
			Autoservis Peris	20.000	188.650	409.386	1,0	
			Autoservis Sirkic	9.900	188.650	409.386	1,0	
	Senta	AMSS 10	AMSS 6	22.500	22.500	409.386	5	
			AMSS 7	12.800	74.400	409.386	3,6	
			AMSS 8	22.500	74.400	409.386	3,6	
			AS Meljkovic	12.800	74.400	409.386	3,6	
			AS Rolic	6.200	74.400	409.386	3,6	
Vrbas	AMSS 9	Autoservis Borkic	2.500	74.400	409.386	3,6		
		Autoservis Borkic	17.500	74.400	409.386	3,6		
		AMSS 6	12.800	55.550	409.386	2,0		
		Autoservis Lameš	6.200	55.550	409.386	2,0		
		Autoservis Radic	11.500	55.550	409.386	2,0		
Krnjic	AMSS 11	Autoservis Komar	2.500	55.550	409.386	2,0		
		Autoservis Distrik	22.500	55.550	409.386	2,0		

Execution complete Execution Time: 00:00:02 Rows: 508 Columns: 4 Local Template: Standard



Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

Grupisanje-4

Godina/SkupanjaPolisa	Kvartal/Godina/SkupanjaPolisa	OpcionalExpoiture	Ekapostitura	Metrica	UkVrPremije-Rep	UkVrPremije-Rep-OpcinalExp	UkVrPremije-Rep-OpcinalExpGrouped	UkVrPremije-Opcal	
			Autoservis Milenij	12.488	189.900		1.157.258	1,7	
			AMSS 3	21.288	189.900		1.157.258	1,7	
			Autoservis Letnja	35.888	189.900		1.157.258	1,7	
			Autoservis Brdo	41.888	189.900		1.157.258	1,7	
			AMSS 4	42.488	88.250		1.157.258	1,11	
			Autoservis Vukovac	45.858	88.250		1.157.258	1,11	
			Kantica	38.700	38.700		1.157.258	0	
			Kilinda	17.858	38.650		1.157.258	2	
			AS Nemirija	22.688	38.650		1.157.258	2	
			KJB	62.158	133.250		1.157.258	1,2	
			AMSS 5	41.102	133.250		1.157.258	1,2	
			NS AUTO 1	21.288	189.900		1.157.258	1,9	
			NS AUTO 2	17.258	189.900		1.157.258	1,9	
			Autoservis Milenij	48.958	189.900		1.157.258	1,9	
			Autoservis Perla	39.300	189.900		1.157.258	1,9	
			Autoservis Siroko	24.458	189.900		1.157.258	1,9	
			Senta	AMSS 10	47.000		1.157.258	5	
				AMSS 7	35.688	289.750		1.157.258	3,6
				AMSS 8	40.000	289.750		1.157.258	3,6
				AS Milutin	28.658	289.750		1.157.258	3,6
				AS Rokic	39.800	289.750		1.157.258	3,6
				Autoservis Borkus	30.286	289.750		1.157.258	3,6
				AMSS 9	37.358	289.750		1.157.258	3,6
				AMSS 6	51.688	285.050		1.157.258	2,8
				Autoservis Limes	47.758	285.050		1.157.258	2,8
				Autoservis Radic	108.158	285.050		1.157.258	2,8
				Autoservis Kimer	24.888	285.050		1.157.258	2,8
				Autoservis Districk	64.888	285.050		1.157.258	2,8

Execution complete

Execution Time: 00:00:01 Rows: 236 Columns: 4 Local Template Standard

Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

New Report

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Report objects x Report details

Godina/Period/SklapanjaPolica	OpcionalnaOpština	Ekspositora	BrojVrh	UkVrPremije-Rep	UkVrPremije-Rep-OpcionalnaExp	UkVrPremije-Rep-OpcionalnaExpGroupRow	UkVrPremije-OpcionalExp
2006-1	Bečki Palatin	Autoservis Milanević	9.900	23.700	114.450	1.739.150	
		AMSS 2	11.300	23.700	114.450	1.739.150	
		Autoservis Leto	2.500	23.700	114.450	1.739.150	
		NS AUTO 1	11.300	98.750	114.450	1.301.400	
		NS AUTO 2	2.500	98.750	114.450	1.301.400	
	Novi Sad	Autoservis Milanević	39.050	98.750	114.450	1.301.400	
		Autoservis Petrić	28.000	98.750	114.450	1.301.400	
		Autoservis Šimac	9.900	98.750	114.450	1.301.400	
		Autoservis Brkić	9.900	9.900	162.200	1.739.150	
		Autoservis Topola	9.900	21.400	162.200	1.162.750	
2006-2	Kula	Autoservis Vuković	11.500	21.400	162.200	1.162.750	
		Autoservis Radovićević	17.500	48.000	162.200	1.224.150	
		AMSS 5	22.500	48.000	162.200	1.224.150	
		AMSS 7	12.500	35.350	162.200	3.685.150	
		AMSS 8	22.500	35.350	162.200	3.685.150	
	Vrbas	AMSS 6	12.500	55.550	162.200	2.049.500	
		Autoservis Lanišće	6.200	55.550	162.200	2.049.500	
		Autoservis Radić	11.500	55.550	162.200	2.049.500	
		Autoservis Konjar	2.500	55.550	162.200	2.049.500	
		Autoservis Distrizit	22.500	55.550	162.200	2.049.500	
2006-4	Kanjiža	AS Hodoč	11.300	11.300	87.450	607.550	
	Kikinda	Autoservis Đorđević	14.500	14.500	87.450	273.500	
	Senta	AMSS 10	22.500	22.500	87.450	582.000	
	Sremska Mitrovica	AS Matović	12.500	39.050	87.450	3.685.150	
		AS Ročić	6.200	39.050	87.450	3.685.150	
		Autoservis Burek	2.500	39.050	87.450	3.685.150	
	Kikinda	AMSS 9	17.500	39.050	87.450	3.685.150	
	Kikinda	AS Naumčić	12.700	12.700	45.200	273.500	

Execution complete

Execution Time: 00:00:02 Rows: 728 Columns: 4 Local Template: Standard

10:06 PM 5/17/2017

Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

New Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Anal Western \$ % 18-03

Report objects x Report details

Name

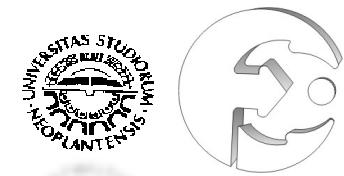
- Ekspozitura
- GodinaKwartal
- GodinaMjesev
- GodinaSkladi
- Opcionalkao
- UkVrPremije
- UkVrPremije
- UkVrPremije
- UkVrPremije

GodinaMjesev	SkupanjaPolice	Opcionalkao	Ekspozitura	Metrica	UkVrPremije-Rep	UkVrPremije-Rep-Opcionalkao	UkVrPremije-Rep-OpcionalkaoGroupNone	UkVrPremije-Opcionalkao
2006-1	Backa Palanka		AUTIServis Milanovic	9,900	33,660	489,300	1,738,150	
			AMIS 3	11,200	33,660	489,300	1,738,150	
			AUTIServis Lekic	2,500	33,660	489,300	1,738,150	
			Autoservis Brlic	9,900	33,660	489,300	1,738,150	
			AMIS 4	9,900	21,480	489,300	1,182,750	
		Autoservis Vulovic	11,500	21,480	489,300	1,182,750		
		Konica	11,300	11,300	489,300	687,550		
		Autoservis Osimovic	14,550	27,250	489,300	273,600		
		AS Reinerija	12,700	27,250	489,300	273,600		
		Autoservis Radosevic	17,500	40,800	489,300	1,224,150		
	AMIS 5	23,500	40,800	489,300	1,224,150			
Novi Sad	Novi Sad	NS AUTO 1	21,200	100,650	489,300	1,381,400		
		NS AUTO 2	2,500	100,650	489,300	1,381,400		
		AUTIServis Milanovic	39,050	100,650	489,300	1,381,400		
		Autoservis Peris	28,000	100,650	489,300	1,381,400		
		Autoservis Senic	9,900	100,650	489,300	1,381,400		
	Senta	AMIS 16	22,550	22,550	489,300	582,000		
		AMIS 7	12,850	74,400	489,300	3,685,150		
		AMIS 8	22,500	74,400	489,300	3,685,150		
		AS Matkovic	12,850	74,400	489,300	3,685,150		
		AS Reivic	6,200	74,400	489,300	3,685,150		
	Autoservis Borkas	2,500	74,400	489,300	3,685,150			
	AMIS 9	17,500	74,400	489,300	3,685,150			
	AMIS 6	12,850	55,550	489,300	2,848,500			
	Autoservis Lekic	6,200	55,550	489,300	2,848,500			
	Autoservis Radic	11,500	55,550	489,300	2,848,500			
	Autoservis Kolar	2,500	55,550	489,300	2,848,500			
	Autoservis Gajic	22,500	55,550	489,300	2,848,500			

Execution complete

Execution Time 00:00:01 Rows: 398 Columns: 4 Local Template: Standard

10:29 PM 5/17/2017



Složene metrike/mere

Komponenta mere – **NIVO** – parametar - Grupisanje (Grouping) –scroll prethonog izveštaja

New Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Anal Western 8 1234-01

Report objects x Report details

Names

- Ekspozitura
- GodinaKwartal
- GodinaMesec
- GodinaSklapa
- OpcionoEkspre
- UkvrPremije
- UkvrPremije
- UkvrPremije
- UkvrPremije

2006-1

	Rajkača	Autoservis Ognjanović	14.500	27.250	489.300	273.600	
		AS Karamarka	12.700	27.250	489.300	273.600	
	Kula	Autoservis Radivojević	17.500	40.000	489.300	1.224.150	
		AMIS 5	22.500	40.000	489.300	1.224.150	
		NS AUTO 1	21.200	100.850	489.300	1.381.400	
		NS AUTO 2	2.500	100.850	489.300	1.381.400	
	Movlja	Autoservis Iličanović	39.050	100.850	489.300	1.381.400	
		Autoservis Peša	28.000	100.850	489.300	1.381.400	
		Autoservis Šeršić	9.900	100.850	489.300	1.381.400	
	Benta	AMIS 18	22.550	22.550	489.300	582.000	
		AMIS 7	12.850	74.400	489.300	3.685.150	
		AMIS 8	22.500	74.400	489.300	3.685.150	
	Sombor	AS Matković	12.850	74.400	489.300	3.685.150	
		AS Rajković	8.200	74.400	489.300	3.685.150	
		Autoservis Berlitas	2.500	74.400	489.300	3.685.150	
		AMIS 9	17.500	74.400	489.300	3.685.150	
		AMIS 6	12.850	55.550	489.300	2.849.500	
	Vrbas	Autoservis Lukić	5.200	55.550	489.300	2.849.500	
		Autoservis Radić	11.500	55.550	489.300	2.849.500	
		Autoservis Knežević	2.500	55.550	489.300	2.849.500	
		Autoservis Čatrnjak	22.500	55.550	489.300	2.849.500	
	Zrenjanin	AMIS 11	12.700	22.800	489.300	421.700	
		AMIS 12	9.900	22.800	489.300	421.700	
		Autoservis Iličanović	2.500	32.250	348.600	1.739.150	
		AMIS 3	9.900	32.250	348.600	1.739.150	
		Autoservis Lukić	9.900	32.250	348.600	1.739.150	
		Autoservis Brkić	9.900	32.250	348.600	1.739.150	
		AMIS 4	11.300	21.250	348.600	1.182.750	
		Autoservis Vučević	9.900	21.250	348.600	1.182.750	
		Krnjica	AS Hrdinio	12.700	12.700	348.600	887.550

Execution complete

Execution Time: 00:00:01 Rows: 500 Columns: 4 Local Template Standard

12:31 PM 5/17/2017

Složene metrike/mere

Komponenta mere – NIVO – parametar - Grupisanje (Grouping)

New Report

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Save and Close Corporate Rows Values Anal 8 Western \$ % + 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 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Složene metrike/mere

Komponenta mere – **NIVO** – parametar - Grupisanje (Grouping) –scroll prethonog izveštaja

Report object: Report details

	Autoservis Lekic	35.000	109.888	1.157.250	1.738.150	
Becka Topola	Autoservis Brlic	41.000	109.888	1.157.250	1.738.150	
	ARSS 4	42.400	88.258	1.157.250	1.182.750	
	Autoservis Vukovic	45.850	88.258	1.157.250	1.182.750	
Kragujevac	AS Hadzic	38.700	38.700	1.157.250	687.550	
Kikinda	Autoservis Ozimovic	17.050	39.888	1.157.250	273.600	
	AS Kraljevica	22.600	39.888	1.157.250	273.600	
Kruševac	Autoservis Radivojevic	92.150	133.258	1.157.250	1.224.150	
	ARSS 5	41.100	133.258	1.157.250	1.224.150	
	NS AUTO 1	21.200	150.958	1.157.250	1.381.400	
	NS AUTO 2	17.050	150.958	1.157.250	1.381.400	
Novi Sad	Autoservis Miljanovic	48.950	150.958	1.157.250	1.381.400	
	Autoservis Perisic	39.300	150.958	1.157.250	1.381.400	
	Autoservis Simic	24.450	150.958	1.157.250	1.381.400	
Senta	ARSS 10	47.000	47.000	1.157.250	582.000	
	ARSS 7	35.600	209.758	1.157.250	3.685.150	
	ARSS 8	48.000	209.758	1.157.250	3.685.150	
Borik	AS Mihajlovic	38.850	209.758	1.157.250	3.685.150	
	AS Rakic	39.000	209.758	1.157.250	3.685.150	
	Autoservis Berberic	36.200	209.758	1.157.250	3.685.150	
	ARSS 9	37.300	209.758	1.157.250	3.685.150	
	ARSS 6	51.600	295.858	1.157.250	2.849.500	
Vrbas	Autoservis Lamek	47.700	295.858	1.157.250	2.849.500	
	Autoservis Radić	188.150	295.858	1.157.250	2.849.500	
	Autoservis Komar	24.000	295.858	1.157.250	2.849.500	
	Autoservis Distrikat	64.800	295.858	1.157.250	2.849.500	
Zrenjanin	ARSS 11	27.250	47.058	1.157.250	421.700	
	ARSS 12	19.000	47.058	1.157.250	421.700	
	Autoservis Miljanovic	12.850	213.958	2.134.250	1.738.150	
	Becka Polonica	ARSS 3	8.200	213.958	2.134.250	1.738.150

Execution complete. Execution Time: 00:00:01 Rows: 238 Columns: 4 Local Template Standard

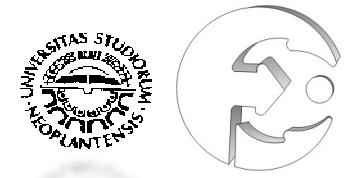
Složene metrike/mere

Komponenta mere – **NIVO** – parametar – **Filtriranje (Filtering)**

Parametar Filtriranje odreuje ponašanje mere (način njenog računanja) **u odnosu na filter definisan u izveštaju (report filter)**.

Razlikujemo 4 opcije filtriranja:

- ❖ Standard
- ❖ Absolute – Podiže nivo filtriranja na nivo ciljnog (target) atributa
- ❖ Ignore – Potpuno ignoriše svaki uslov filtriranja iz izveštaja
- ❖ None – Izračunavanje mere zavisi od tabele činjenica



Složene metrike/mere

Komponenta mere – NIVO – parametar – Filtriranje (Filtering)

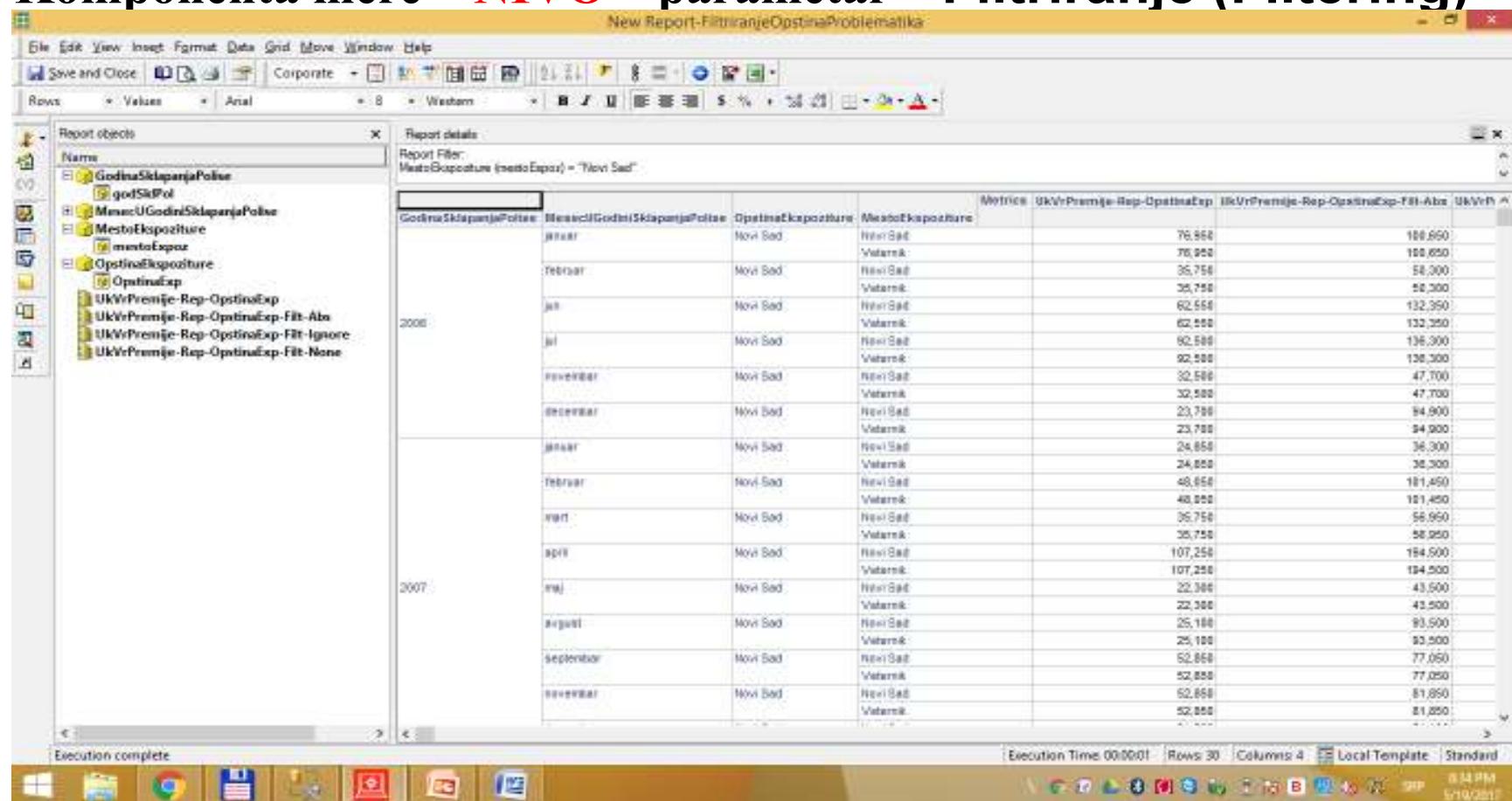
The figure consists of four side-by-side screenshots of the Metric Editor in a reporting tool. Each screenshot shows a different metric definition:

- UkVrPremje-Rep-OptinaExp**: This metric is defined as a sum of 'Iznos Premije' at the 'ReportLevel' with 'OptinaEksposure' as 'standard'. It has no filtering or grouping applied.
- UkVrPremje-Rep-OptinaExp-Filt-Abs**: This metric is also defined as a sum of 'Iznos Premije' at the 'ReportLevel' with 'OptinaEksposure' as 'absolute'. It includes a 'Level (Dimensionality)' row where 'Filtering' is set to 'absolute' for 'OptinaEksposure'.
- UkVrPremje-Rep-OptinaExp-Filt-Ignore**: This metric is defined as a sum of 'Iznos Premije' at the 'ReportLevel' with 'OptinaEksposure' as 'ignore'. It includes a 'Level (Dimensionality)' row where 'Filtering' is set to 'ignore' for 'OptinaEksposure'.
- UkVrPremje-Rep-OptinaExp-Filt-None**: This metric is defined as a sum of 'Iznos Premije' at the 'ReportLevel' with 'OptinaEksposure' as 'standard'. It includes a 'Level (Dimensionality)' row where 'Filtering' is set to 'None' for 'OptinaEksposure'.

In all cases, the 'Condition' and 'Transformation' fields are set to '(nothing)'. The 'Level (Dimensionality)' table consistently shows 'Report Level' as 'standard' and 'OptinaEksposure' as either 'standard', 'absolute', 'ignore', or 'None'.

Složene metrike/mere

Komponenta mere – **NIVO** – parametar – **Filtriranje (Filtering)**

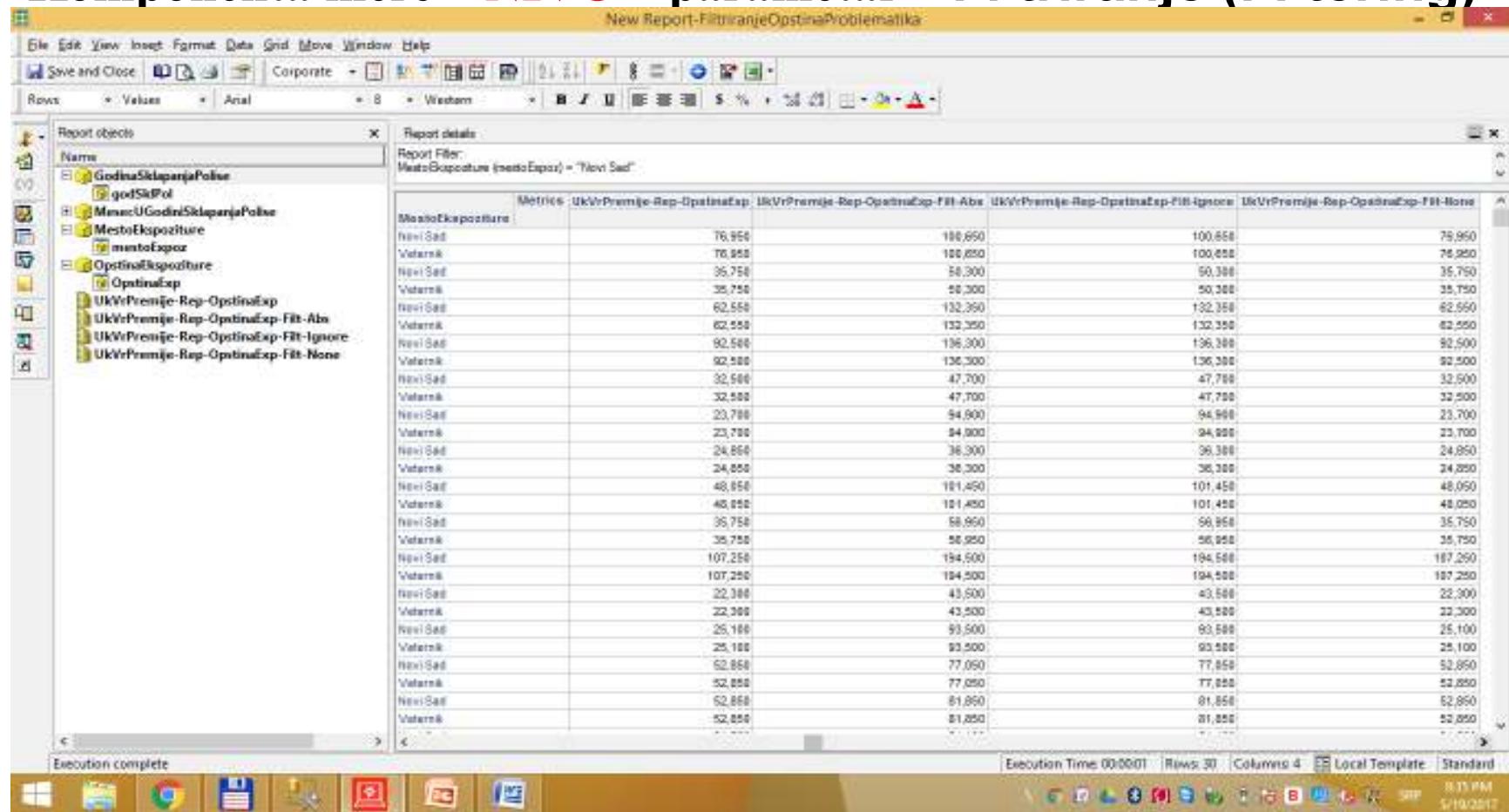


The screenshot shows a reporting application window titled "New Report-FiltriranjeOpštinaProblematika". The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The toolbar has icons for Save and Close, Corporate, and various data manipulation tools. The left pane displays a report object tree with nodes like "GodinaSklapanjaPolice", "godSklpol", "MesecUGodiniSklapanjaPolice", "MestoEkspozure", "mestoExpor", "OpštinaEkspozure", "OpštinaExp", "UkVrPremije-Rep-OpštinaExp", "UkVrPremije-Rep-OpštinaExp-Filt-Abs", "UkVrPremije-Rep-OpštinaExp-Filt-Ignore", and "UkVrPremije-Rep-OpštinaExp-Filt-None". The main pane shows a grid of data for "OpštinaEkspozure" filtered by "MestoEkspozure" (Novi Sad). The data is grouped by year (2006, 2007) and month (januar, februar, mart, april, maj, junij, srpanj, septembar, novembar). The columns include GodinaSklapanjaPolice, Mesec/GodiniSklapanjaPolice, OpštinaEkspozure, MestoEkspozure, Metrica, UkvPremije-Rep-OpštinaExp, UkvPremije-Rep-OpštinaExp-Filt-Abs, and UkvPremije-Rep-OpštinaExp-Filt-Ignore. The data shows values for Novi Sad and Vojvodina across these months and years.

GodinaSklapanjaPolice	Mesec/GodiniSklapanjaPolice	OpštinaEkspozure	MestoEkspozure	Metrica	UkvPremije-Rep-OpštinaExp	UkvPremije-Rep-OpštinaExp-Filt-Abs	UkvPremije-Rep-OpštinaExp-Filt-Ignore
2006	januar	Novi Sad	Vojvodina		76.856	100.650	
			Vojvodina		76.856	100.650	
		februar	Novi Sad	Vojvodina	56.756	56.300	
			Vojvodina		56.756	56.300	
		mart	Novi Sad	Vojvodina	62.556	132.350	
			Vojvodina		62.556	132.350	
		aprili	Novi Sad	Vojvodina	62.556	132.350	
			Vojvodina		62.556	132.350	
		srpanj	Novi Sad	Vojvodina	32.586	47.700	
			Vojvodina		32.586	47.700	
		oktobar	Novi Sad	Vojvodina	23.786	34.900	
			Vojvodina		23.786	34.900	
2007	januar	Novi Sad	Vojvodina	24.856	36.300		
			Vojvodina		24.856	36.300	
		februar	Novi Sad	Vojvodina	48.856	101.450	
			Vojvodina		48.856	101.450	
		mart	Novi Sad	Vojvodina	56.756	56.950	
			Vojvodina		56.756	56.950	
		aprili	Novi Sad	Vojvodina	107.256	194.500	
			Vojvodina		107.256	194.500	
		maj	Novi Sad	Vojvodina	22.386	43.500	
			Vojvodina		22.386	43.500	
		srpanj	Novi Sad	Vojvodina	25.186	33.500	
			Vojvodina		25.186	33.500	

Složene metrike/mere

Komponenta mere – NIVO – parametar – Filtriranje (Filtering)



The screenshot shows a reporting application window titled "New Report-FiltriranjeOpštinaProblematika". The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The toolbar includes Save and Close, Corporate, and various data manipulation icons.

The left pane displays a tree view of report objects:

- Report objects
- Name:
 - GodinaSklapanjaPolje
 - godSklPol
 - MesecUGodiniSklapanjaPolje
 - MestoEkspoziture
 - mestoExpoz
 - OptinalEkspoziture
 - OptinalExp
 - UkVrPremije-Rep-OptinalExp
 - UkVrPremije-Rep-OptinalExp-Filt-Abs
 - UkVrPremije-Rep-OptinalExp-Filt-Ignore
 - UkVrPremije-Rep-OptinalExp-Filt-None

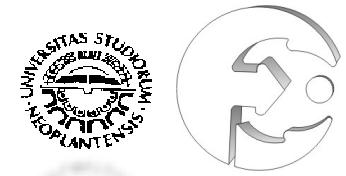
The right pane shows a grid view of data with the following columns:

MestoEkspoziture	Metrika: UkVrPremije-Rep-OptimalExp	UkVrPremije-Rep-OptimalExp-Filt-Abs	UkVrPremije-Rep-OptimalExp-Filt-Ignore	UkVrPremije-Rep-OptimalExp-Filt-None
Novi Sad	76,950	100,650	100,650	76,950
Vojvodina	76,950	100,650	100,650	76,950
Novi Sad	35,750	50,300	50,300	35,750
Vojvodina	35,750	50,300	50,300	35,750
Novi Sad	62,550	132,350	132,350	62,550
Vojvodina	62,550	132,350	132,350	62,550
Novi Sad	92,500	136,300	136,300	92,500
Vojvodina	92,500	136,300	136,300	92,500
Novi Sad	32,500	47,700	47,700	32,500
Vojvodina	32,500	47,700	47,700	32,500
Novi Sad	23,700	34,900	34,900	23,700
Vojvodina	23,700	34,900	34,900	23,700
Novi Sad	24,650	36,300	36,300	24,650
Vojvodina	24,650	36,300	36,300	24,650
Novi Sad	48,650	101,450	101,450	48,650
Vojvodina	48,650	101,450	101,450	48,650
Novi Sad	35,750	56,950	56,950	35,750
Vojvodina	35,750	56,950	56,950	35,750
Novi Sad	107,250	194,500	194,500	107,250
Vojvodina	107,250	194,500	194,500	107,250
Novi Sad	22,300	43,500	43,500	22,300
Vojvodina	22,300	43,500	43,500	22,300
Novi Sad	25,100	33,500	33,500	25,100
Vojvodina	25,100	33,500	33,500	25,100
Novi Sad	52,850	77,050	77,050	52,850
Vojvodina	52,850	77,050	77,050	52,850
Novi Sad	52,850	81,850	81,850	52,850
Vojvodina	52,850	81,850	81,850	52,850

Execution complete

Execution Time: 00:00:01 | Rows: 30 | Columns: 4 | Local Template | Standard

8:15 PM
5/10/2017



Složene metrike/mere

Komponenta mere – NIVO – parametar – Filtriranje (Filtering)

New Report-FiltriranjeOpštinaProblematika

Report objects

- Name
- GodinaSklapanjaPolice
- godSklPol
- MesecUGodinuSklapanjaPolice
- MestoEkspoziture
- mestoExpoz
- OptinalEkspoziture
- OptinalExp
- UkVrPremije-Rep-OptinalExp
- UkVrPremije-Rep-OptinalExp-Abs
- UkVrPremije-Rep-OptinalExp-Filt-Ignor
- UkVrPremije-Rep-OptinalExp-Filt-None

Report details

Report Filter: MestoEkspoziture (mestoExpoz) = "Sombor"

MesecGodinuSklapanjaPolice	OptinalEkspoziture	MestoEkspoziture	Metrika	UkVrPremije-Rep-OptinalExp	UkVrPremije-Rep-OptinalExp-Filt-Abs	UkVrPremije-Rep-OptinalExp-Filt-None
januar	Sombor	Aleksa Santic	54.400	74.400	74.400	74.400
		Sombor	54.400			
		Svetozar Miletić	54.400			
		Aleksa Santic	38.000	73.560	73.560	73.560
		Sombor	38.000			
		Svetozar Miletić	38.000			
		Aleksa Santic	48.050	61.850	61.850	61.850
		Sombor	48.050			
		Svetozar Miletić	48.050			
		Aleksa Santic	111.750	171.100	171.100	171.100
		Sombor	111.750			
		Svetozar Miletić	111.750			
		Aleksa Santic	248.750	335.100	335.100	335.100
		Sombor	248.750			
		Svetozar Miletić	248.750			
		Aleksa Santic	32.250	71.850	71.850	71.850
		Sombor	32.250			
		Svetozar Miletić	32.250			
		Aleksa Santic	58.900	76.300	76.300	76.300
		Sombor	58.900			
		Svetozar Miletić	58.900			
		Aleksa Santic	322.350	446.800	446.800	446.800
		Sombor	322.350			
		Svetozar Miletić	322.350			
		Aleksa Santic	75.600	136.800	136.800	136.800
		Sombor	75.600			
		Svetozar Miletić	75.600			
		Aleksa Santic	74.400	97.800	97.800	97.800

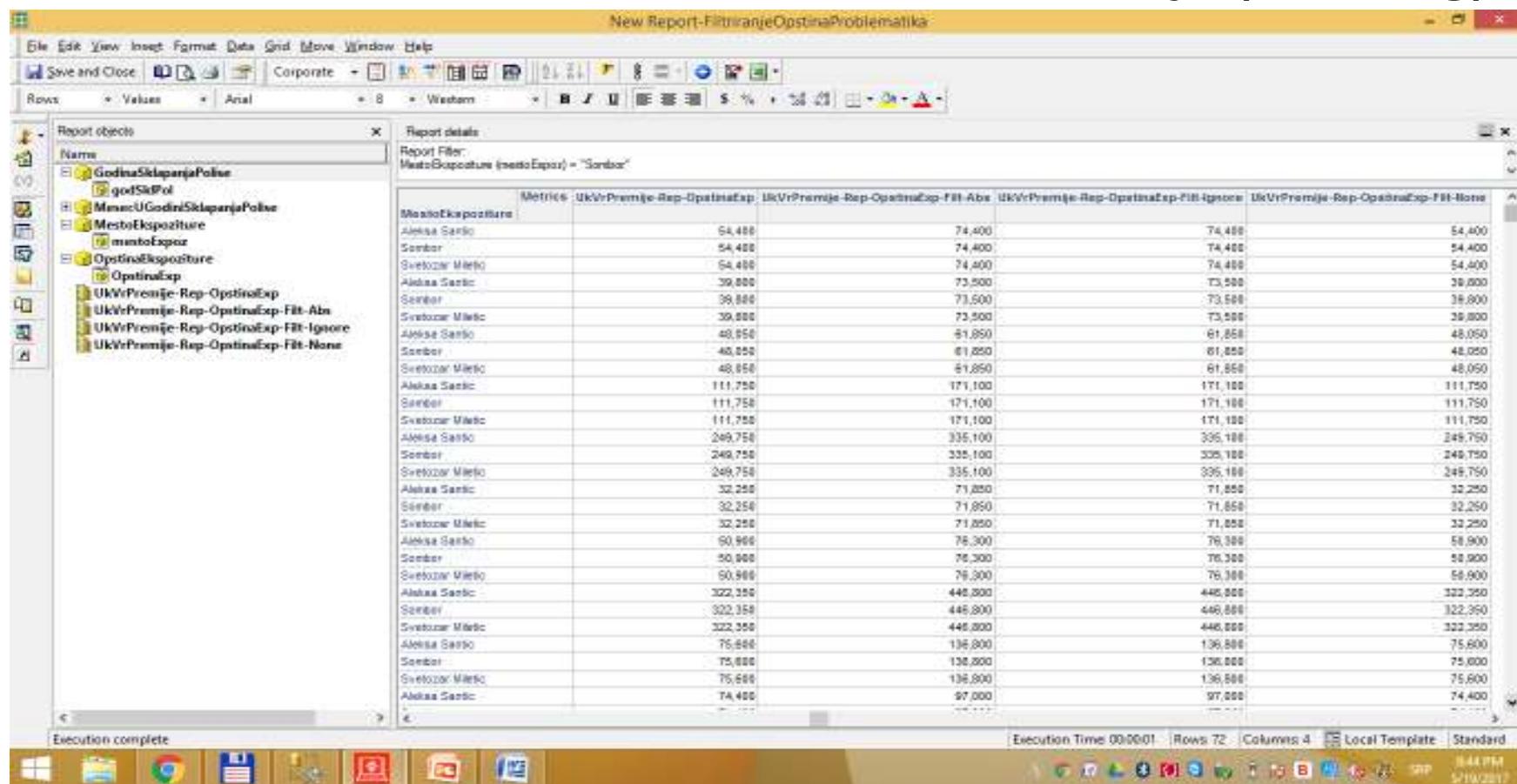
Execution complete

Execution Time: 00:00:01 Rows: 72 Columns: 4 Local Template Standard

8:43 PM 5/19/2017

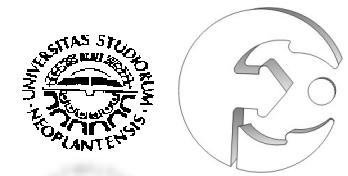
Složene metrike/mere

Komponenta mere – NIVO – parametar – Filtriranje (Filtering)



The screenshot shows a reporting application window titled "New Report-FiltriranjeOptimaProblematika". The left sidebar displays a tree view of report objects, including "GodinaSklapanjaPolisa", "MestoEkspozure", "OpstinalEkspozure", and several "UkVrPremije-Rep-OptimalExp" variants. The main area shows a data grid with columns: Metrika, UkvvrPremije-Rep-OptimalExp, UkvvrPremije-Rep-OptimalExp-Filt-Abs, UkvvrPremije-Rep-OptimalExp-Filt-Ignore, and UkvvrPremije-Rep-OptimalExp-Filt-None. The data is filtered for "Sombor".

Metrika	UkvvrPremije-Rep-OptimalExp	UkvvrPremije-Rep-OptimalExp-Filt-Abs	UkvvrPremije-Rep-OptimalExp-Filt-Ignore	UkvvrPremije-Rep-OptimalExp-Filt-None
Aleksa Santic	54,400	74,400	74,400	54,400
Sombor	54,400	74,400	74,400	54,400
Svetozar Miletic	54,400	74,400	74,400	54,400
Aleksa Santic	39,800	73,500	73,500	39,800
Sombor	39,800	73,500	73,500	39,800
Svetozar Miletic	39,800	73,500	73,500	39,800
Aleksa Santic	48,850	61,850	61,850	48,050
Sombor	48,850	61,850	61,850	48,050
Svetozar Miletic	48,850	61,850	61,850	48,050
Aleksa Santic	111,750	171,100	171,100	111,750
Sombor	111,750	171,100	171,100	111,750
Svetozar Miletic	111,750	171,100	171,100	111,750
Aleksa Santic	249,750	335,100	335,100	249,750
Sombor	249,750	335,100	335,100	249,750
Svetozar Miletic	249,750	335,100	335,100	249,750
Aleksa Santic	32,250	71,850	71,850	32,250
Sombor	32,250	71,850	71,850	32,250
Svetozar Miletic	32,250	71,850	71,850	32,250
Aleksa Santic	59,900	76,300	76,300	59,900
Sombor	59,900	76,300	76,300	59,900
Svetozar Miletic	59,900	76,300	76,300	59,900
Aleksa Santic	322,350	446,800	446,800	322,350
Sombor	322,350	446,800	446,800	322,350
Svetozar Miletic	322,350	446,800	446,800	322,350
Aleksa Santic	75,600	136,800	136,800	75,600
Sombor	75,600	136,800	136,800	75,600
Svetozar Miletic	75,600	136,800	136,800	75,600
Aleksa Santic	74,400	97,000	97,000	74,400



Složene metrike/mere

Komponenta mere – **NIVO** – parametar – **Filtriranje (Filtering)** – kada nema lokalnog filtera

Screenshot of a reporting software interface showing a complex report structure and data filtering.

The interface includes:

- Menu bar: File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help.
- Toolbar with various icons for file operations.
- Report objects pane on the left:

 - GodinaSklapanjaPolice
 - godSklpol
 - MesecUGodiniSklapanjaPolice
 - MestoEkspoziture
 - mestoExpz
 - OpcinalaEkspoziture
 - OpcinalaExp
 - UkVrPremije-Rep-OpcinalaExp
 - UkVrPremije-Rep-OpcinalaExp-Filt-Abs
 - UkVrPremije-Rep-OpcinalaExp-Filt-Ignore
 - UkVrPremije-Rep-OpcinalaExp-Filt-None

- Report details pane in the center:

 - Report Filter: Empty Filter
 - Report preview area showing data for "JANUAR" and "FEBRAR".
 - Data grid columns include: OpcinalaEkspoziture, MestoEkspoziture, Metrics, and several "UkVrPremije-Rep" metrics.

- Execution status at the bottom: Execution complete.
- System tray icons and taskbar at the bottom.

Složene metrike/mere

Komponenta mere – **NIVO** – parametar – **Filtriranje (Filtering)** – kada nema lokalnog filtera

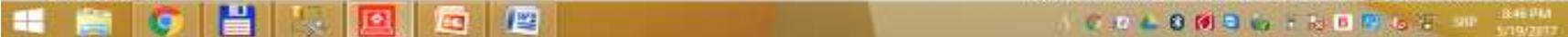
Screenshot of a reporting software interface showing a complex metric structure and filtering results.

Report Object Tree:

- GodinaSklapanjaPolise
 - godstvor
- MesecUGodinaSklapanjaPolise
- MestoEkspoziture
 - mestoExpoz
- OptinalEkspoziture
 - OptinalExp
- UkVrPremije-Rep-OptinalExp
- UkVrPremije-Rep-OptinalExp-Filt-Abs
- UkVrPremije-Rep-OptinalExp-Filt-Ignore
- UkVrPremije-Rep-OptinalExp-Filt-None

MestoEkspoziture	Metrica	UkVrPremije-Rep-OptinalExp	UkVrPremije-Rep-OptinalExp-Filt-Abs	UkVrPremije-Rep-OptinalExp-Filt-Ignore	UkVrPremije-Rep-OptinalExp-Filt-None
Baca Palacka		33,600	33,600	33,600	33,600
Cetinje		33,600	33,600	33,600	33,600
Baca Topala		21,400	21,400	21,400	21,400
Kanjiza		11,300	11,300	11,300	11,300
Klinda		27,250	27,250	27,250	27,250
Kula		40,000	40,000	40,000	40,000
Rivni Sad		100,650	100,650	100,650	100,650
Veterinak		100,650	100,650	100,650	100,650
Coka		22,550	22,550	22,550	22,550
Aleksa Šantić		74,400	74,400	74,400	74,400
Sombor		74,400	74,400	74,400	74,400
Svetozar Miletić		74,400	74,400	74,400	74,400
Vrbas		55,550	55,550	55,550	55,550
Zrenjanin		22,600	22,600	22,600	22,600
Baca Palacka		32,200	32,200	32,200	32,200
Cetinje		32,200	32,200	32,200	32,200
Baca Topala		21,200	21,200	21,200	21,200
Kanjiza		12,700	12,700	12,700	12,700
Klinda		12,400	12,400	12,400	12,400
Kula		12,400	12,400	12,400	12,400
Rivni Sad		50,300	50,300	50,300	50,300
Veterinak		50,300	50,300	50,300	50,300
Coka		9,900	9,900	9,900	9,900
Aleksa Šantić		73,500	73,500	73,500	73,500
Sombor		73,500	73,500	73,500	73,500
Svetozar Miletić		73,500	73,500	73,500	73,500
Vrbas		107,450	107,450	107,450	107,450
Zrenjanin		14,550	14,550	14,550	14,550

Execution Time: 00:00:01 Rows: 202 Columns: 4 Local Template Standard





Složene metrike/mere

Komponente mera – USLOV

- ❖ Neobavezna komponenta
- ❖ Definisanje uslova za neku meru znači da će se mera uvek izračunavati na osnovu podataka koji zadovoljavaju njen filter bez obzira na eventualne uslove definisane nad atributima iz iste hijerarhije u filteru reporta.



Složene metrike/mere

Komponenta mere – USLOV

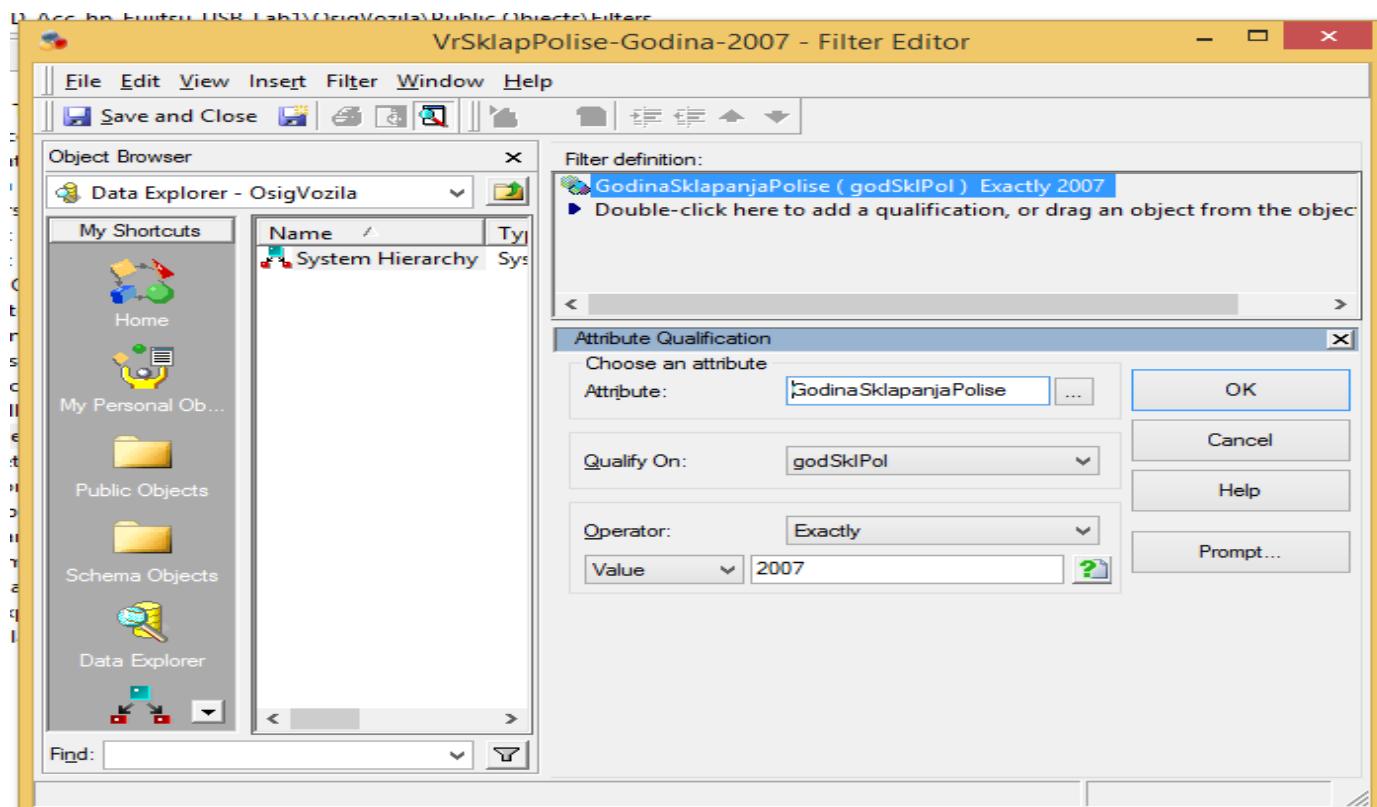
1. Stvara se filter objekat
 2. Taj filter objekat se ugrađuje u Condition metrike
 3. Metrika se zatim koristi u izveštajima

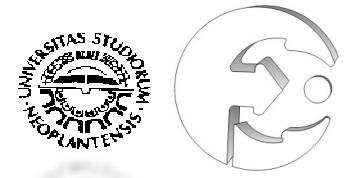


Složene metrike/mere

Komponenta mere – USLOV

1. Stvara se filter objekat





Složene metrike/mere

Komponenta mere – USLOV

2. Taj filter objekat se ugrađuje u Condition metrike

The screenshot shows the Metric Editor application window titled "UkVrPremije-Rep-Uslov-Godina-2007 - Metric Editor". The interface includes a menu bar (File, Edit, View, Tools, Window, Help), a toolbar with various icons, and several panes. The left pane is the Object Browser with categories like Filters, My Shortcuts, and Public Objects. The main pane displays the definition of the metric "UkVrPremije-Rep-Uslov-Godina-2007" as a sum of values from the fact table "Iznos Premije" at the "ReportLevel" level, with a condition that the year must be 2007. The condition is defined as "GodinaSklapanjaPolise (godSklPol) Exactly 2007". Buttons for Browse..., Edit..., Clear, and Advanced... are visible in the bottom right of the condition pane.



Složene metrike/mere

Komponenta mere – USLOV

3. Metrika se zatim koristi u izveštajima

UkVrPremije-Rep - Metric Editor

Object Browser |

Metric **UkVrPremije-Rep** is defined as:

- Sum([Iznos Premije]) {ReportLevel}
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Definition
Name: UkVrPremije-Rep

() + - * / f(x)

Sum([Iznos Premije]) {~+}

UkVrPremije-Rep-Uslov-Godina-2007 - Metric Editor

Object Browser |

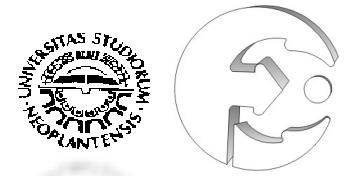
Metric **UkVrPremije-Rep-Uslov-Godina-2007** is defined as:

- Sum([Iznos Premije]) {ReportLevel} < [VrSklapPolise-Godina-2007]>
- Formula = Sum([Iznos Premije])
- Level (Dimensionality) = ReportLevel
- Condition = [VrSklapPolise-Godina-2007]
- Transformation = (nothing)

Definition
Name: UkVrPremije-Rep-Uslov-Godina-2007

() + - * / f(x)

Sum([Iznos Premije]) {~+} <[VrSklapPolise-Godina-2007]; @2; >



Složene metrike/mere

Komponenta mere – **USLOV**

3. Metrika se zatim koristi u izveštajima

Metric	UkvrPremije-Rep
Novi Sad	724,456
Sombor	2,406,550
	3,130,996



Složene metrike/mere

Komponenta mere – **USLOV**

3. Metrika se zatim koristi u izveštajima-a bez lokalnog filtera

New Report

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values Anal 8 Webview B J U \$ % + - 30 43

Report objects

Name: MestoEkspoziture
OptimalEkspoziture
UkvrPremije-Rep
UkvrPremije-Rep-Uslov-Godina-2007

Report details

Report Filter: Empty Filter

MestoEkspoziture	OptimalEkspoziture	Metric	UkvrPremije-Rep	UkvrPremije-Rep-Ulov-Godina-2007
Bačka Palanka	Bačka Palanka	477,788	352,858	
	Cetinjevo	1,261,458	711,588	
Bačko Topoli	Bačko Topoli	1,182,758	641,458	
Kanjiža	Kanjiža	607,558	354,858	
Kikinda	Kikinda	273,688	152,958	
Kula	Kula	1,224,158	484,258	
Novi Sad	Novi Sad	724,458	400,588	
Vinkovci	Vinkovci	576,958	338,788	
Senta	Coka	582,888	204,388	
	Apatin Sanci	673,888	338,558	
Sombor	Sombor	2,406,658	1,109,888	
	Svetozar Miletić	604,788	327,658	
Vrbas	Vrbas	2,849,588	1,351,888	
Zrenjanin	Zrenjanin	421,788	265,758	

Execution complete Execution Time: 00:00:01 Rows: 14 Columns: 2 Local Template: Standard



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

- ❖ Neobavezna komponenta
- ❖ Transformacione mere se najčešće koriste za poređenje vrednosti različitih vremenskih perioda – na primer ova godina u odnosu na prethodnu, ovaj kvartal u odnosu na isti kvartal prethodne godine.
- ❖ Transformacione mere (mere koje sadrže transformacije) se definišu navođenjem transformacija koje treba vršiti pri njenom računanju.
- ❖ Transformacije kao objekti šeme
 - Transformacije su objekti šeme kojima se definiše kako treba vršiti transformaciju neke vrednosti atributa u njenu transformisanu vrednost.
 - Transformacije se mogu definisati pomoću izraza ili odgovarajućih transformacionih tabela.



Složene metrike/mere

Komponente mera – **TRANSFORMACIJE**

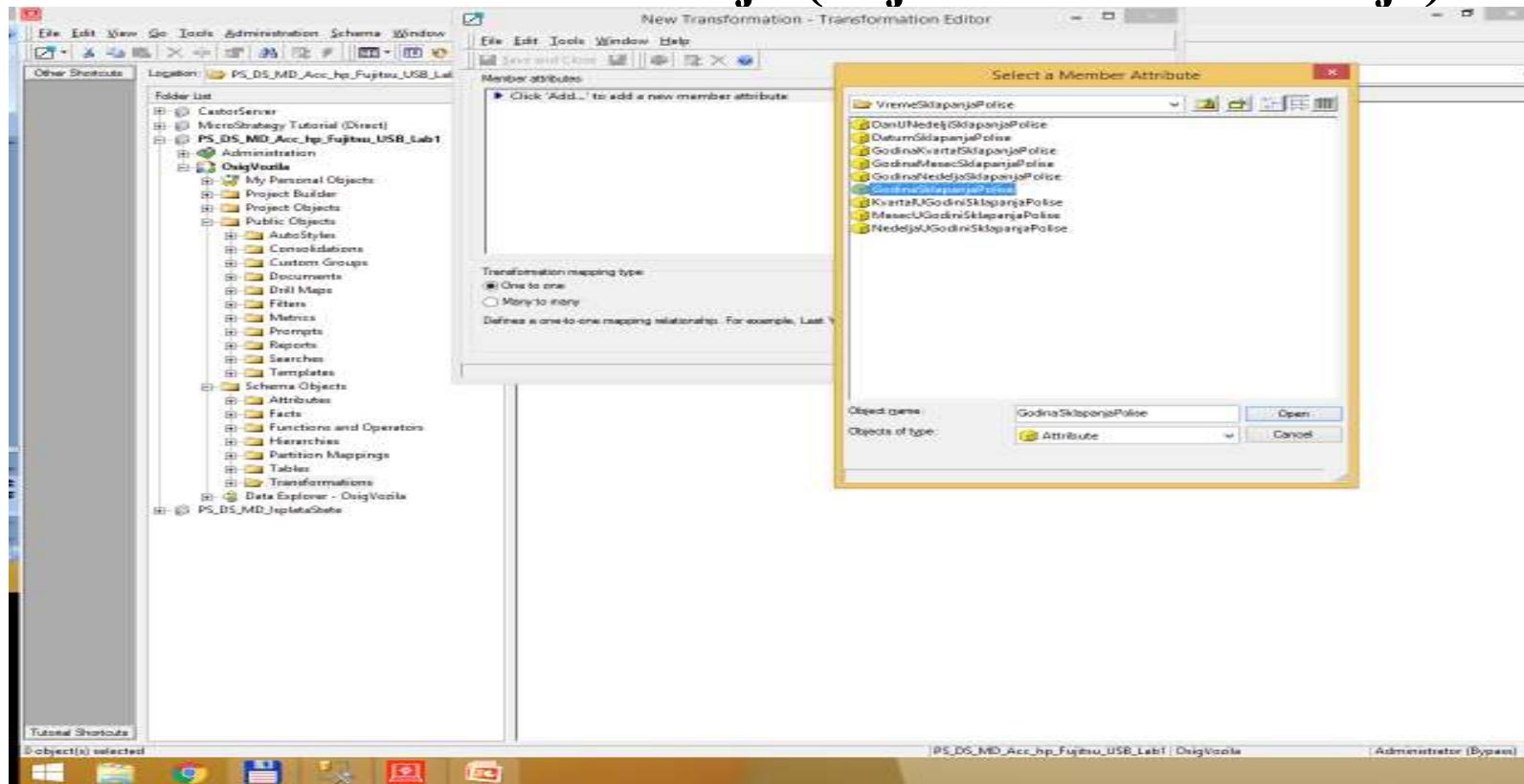
1. Definiše se transformacija (objekat transformacije)
2. Objekat transformacije se uključuje u metriku
3. Stvara se nova metrika sa odnosom metrika (indeks rastaobičan)
4. Stvara se nova metrika sa odnosom metrika u procentima
5. Generiše se izveštaj pomoću transformacionih metrika



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

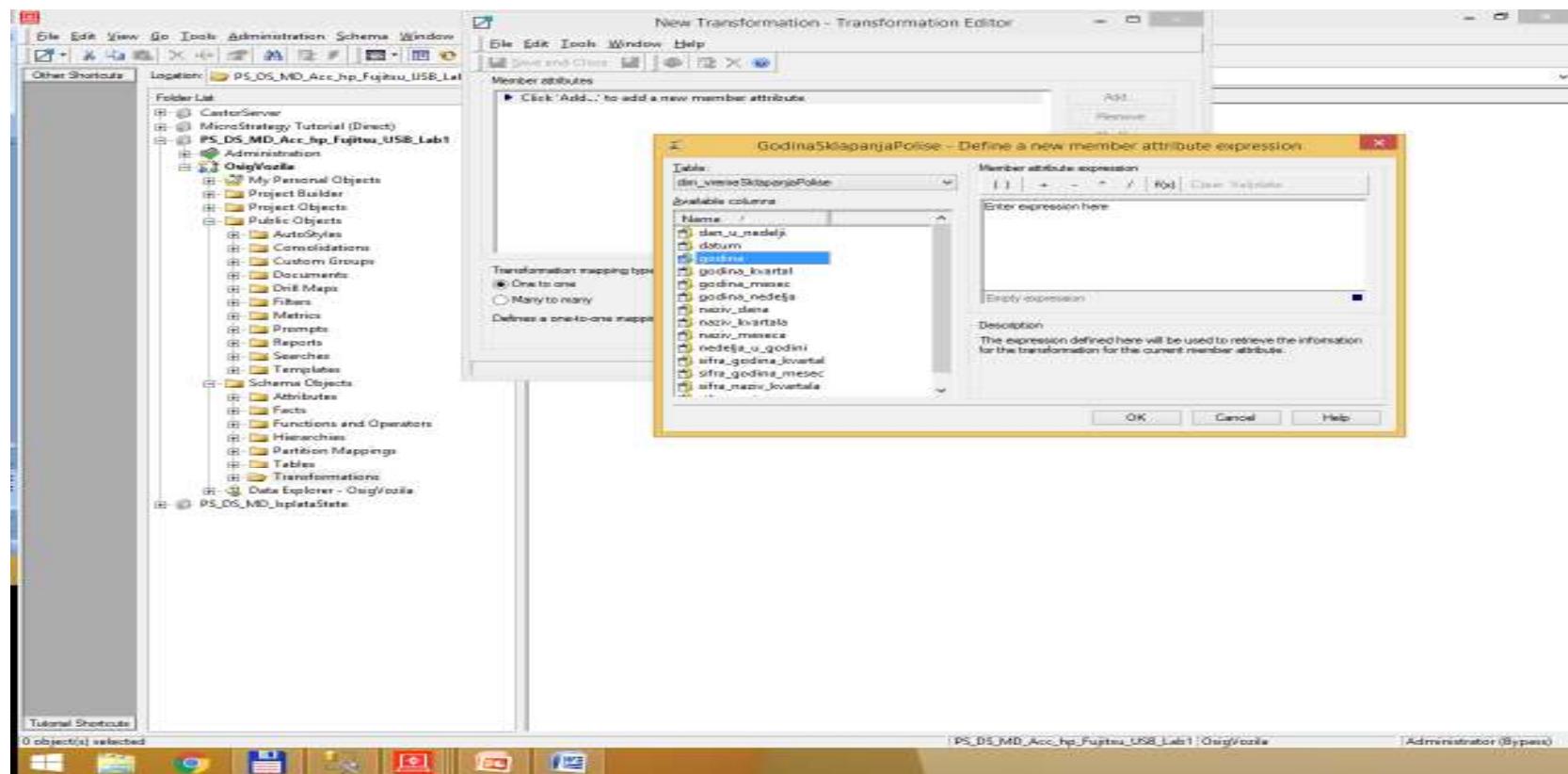
1. Definiše se transformacija (objekat transformacije)



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

1. Definiše se transformacija (objekat transformacije)





Složene metrike/mere

Komponente mera – TRANSFORMACIJE

1. Definiše se transformacija (objekat transformacije)

The screenshot shows the MicroStrategy Desktop interface. On the left, there is a navigation pane titled 'Other Shortcuts' containing a 'Folder List' with various project and object types. The main area is titled 'PrethodnaGodinaSklapanjaPolise - Transformation Editor'. This window has a toolbar at the top with buttons for File, Edit, Tools, Window, Help, Save and Close, and Undo/Redo. Below the toolbar is a table titled 'Member attributes' with one row:

Attribute name	Member expression	Member table
GodinaSklapanjaPolise	godina .- 1	dim_vremeSklapanjaPolise

Below the table, there is a section titled 'Transformation mapping type' with two radio buttons: 'One to one' (selected) and 'Many to many'. A note below states: 'Defines a one-to-one mapping relationship. For example, Last Year Day to This Year Day.' At the bottom of the Transformation Editor window, there is a footer with buttons for Add, Remove, and Modify.

At the very bottom of the screen, the Windows taskbar is visible with icons for Start, File Explorer, Task View, Edge browser, File Manager, and File Explorer again.



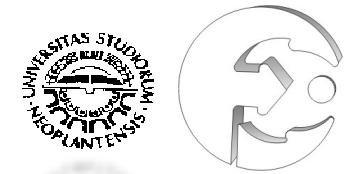
Složene metrike/mere

Komponente mera – TRANSFORMACIJE

2. Objekat transformacije se uključuje u metriku

The screenshot shows the MicroStrategy Desktop interface. The main window is titled "UkVrPremje-Rap-UPrethodnojGODINI - Metric Editor". The left pane shows a tree view of objects, and the right pane displays the metric definition and its properties. The metric is defined as a sum of "Jenes Premje" at ReportLevel, with no transformation applied. The "Transformations" section is empty. The bottom pane shows a list of metrics, and the status bar at the bottom indicates the user is an administrator.

Name	Description	Metric
UkVrPremje-Rap-MetsaExp-Filt-None		5/19/2017 8:19:33 PM
UkVrPremje-Rap-OptistneExp		5/4/2017 10:52:31 PM
UkVrPremje-Rap-OptistneExp-Filt-All		5/8/2017 12:48:53 AM
UkVrPremje-Rap-OptistneExp-Filt-Ignore		5/8/2017 12:50:58 AM
UkVrPremje-Rap-OptistneExp-Filt-None		5/8/2017 12:52:40 AM
UkVrPremje-Rap-OptistneExpGroUp-None		5/7/2017 11:05:20 PM
UkVrPremje-Rap-ListomKvartalaUPrethodneGodine		5/18/2017 11:16:24 PM
UkVrPremje-Rap-UPrethodnojGODINI		5/18/2017 3:30:31 PM
UkVrPremje-Rap-UPrethodnojKvartalu		5/18/2017 11:14:27 PM
UkVrPremje-Rap-Ustov-Godina-2007		5/18/2017 2:48:31 PM



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

2. Objekat transformacije se uključuje u metriku

The screenshot shows the MicroStrategy Desktop interface with the Metric Editor open. The main window title is "UkVrPremije-Rep-UPrethodnojGodini - Metric Editor". The definition of the metric is displayed as:

```
Sum(@znos Premije) [Report Level] / PrethodnaGodinaSkupanjaPolice
```

The components of the formula are:

- Sum(@znos Premije) - Report Level
- PrethodnaGodinaSkupanjaPolice - Report Level

The left pane shows the Object Browser with the following objects:

Name	Type	Modified
Ispolacen Iznos	Fact	3/22/2017 5:32:33 PM
Iznos Premije	Fact	3/22/2017 5:32:33 PM
Procenjena Vrednost	Fact	3/22/2017 5:32:33 PM

The bottom pane shows a list of metrics and their modification dates:

Metric	Modified
UkVrPremije-Rep-MetricExp-Filt-None	5/19/2017 8:18:33 PM
UkVrPremije-Rep-MetricExp-Filt-Abs	5/19/2017 10:42:31 PM
UkVrPremije-Rep-OptimalExp-Filt-Abs	5/19/2017 12:48:53 AM
UkVrPremije-Rep-OptimalExp-Filt-1onone	5/19/2017 12:50:58 AM
UkVrPremije-Rep-OptimalExp-Filt-None	5/19/2017 12:52:40 AM
UkVrPremije-Rep-OptimalExpGroupNone	5/19/2017 11:05:26 PM
UkVrPremije-Rep-UstvariKvantiluPrethodneGodine	5/18/2017 11:16:24 PM
UkVrPremije-Rep-UPrethodnojGodini	5/18/2017 9:30:31 PM
UkVrPremije-Rep-UPrethodnaKvantilata	5/18/2017 11:14:27 PM
UkVrPremije-Rep-Ustov-Godina-2007	5/18/2017 12:48:51 PM



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

3. Stvara se nova metrika sa odnosom metrika (indeks rastaobičan)

The screenshot displays the MicroStrategy Desktop Metric Editor window. The title bar reads "MicroStrategy Desktop" and "IndeksRastaPoliseOsiguranjaGodisnji - Metric Editor". The main area shows the metric definition:

```
Metric: IndeksRastaPoliseOsiguranjaGodisnji is defined as:  
  ([UkVrPremije-Rep] / [UkVrPremije-Rep-UPrethodnogODINII])  
  = [UkVrPremije-Rep]  
    Formula = Sum([UkVrPremije])  
    Level Of Dimensionality = ReportLevel  
    Condition = Nothing  
  / [UkVrPremije-Rep-UPrethodnogODINII]  
    Formula = Sum([UkVrPremije])  
    Level Of Dimensionality = ReportLevel  
    Condition = Nothing  
    Transformation = nothing
```

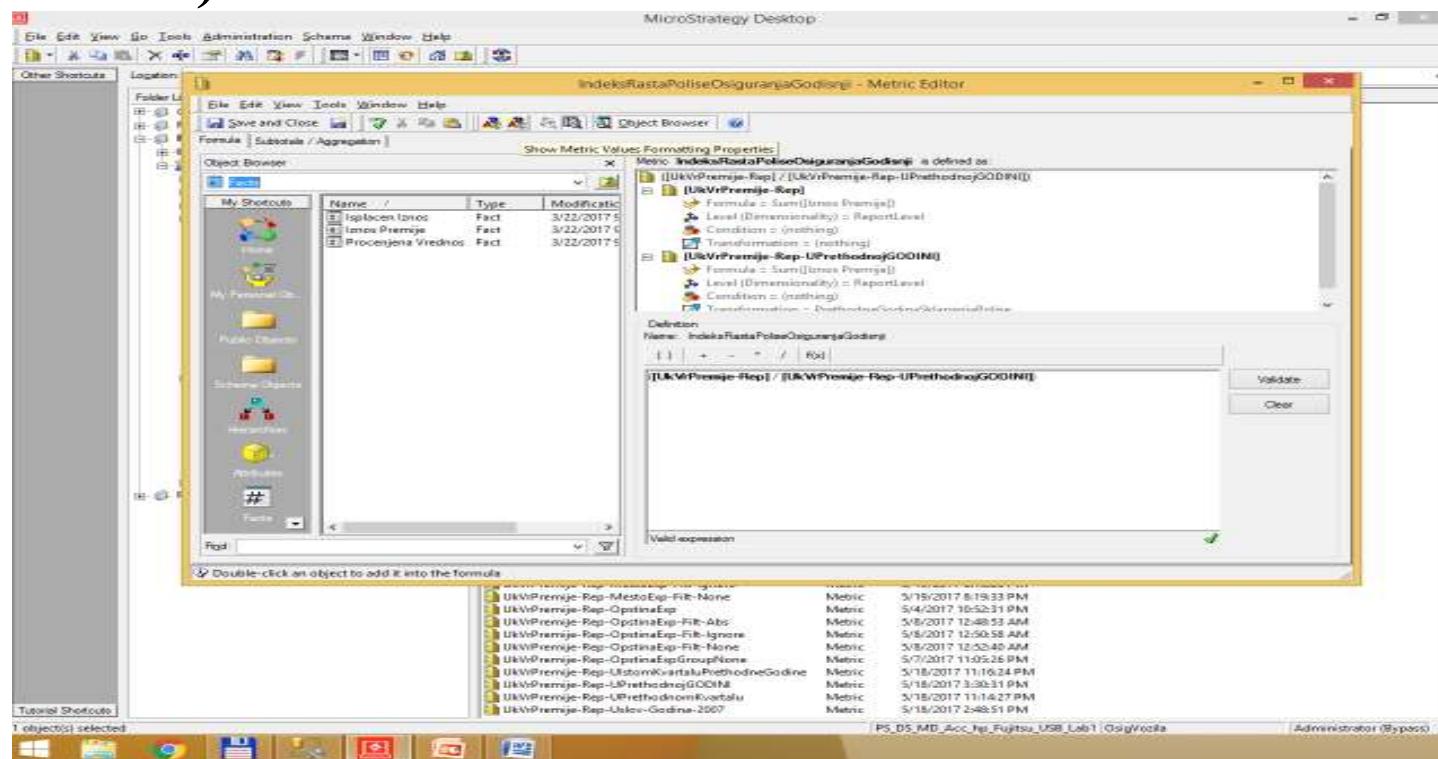
The "Definition" section shows the metric name and its formula. Below it, the "Valid expression" field contains the formula `(UkVrPremije-Rep) / (UkVrPremije-Rep-UPrethodnogODINII)`. On the right side of the editor, there are "Validate" and "Close" buttons.

The left sidebar of the MicroStrategy interface includes "Object Browser" and "Object Navigator" tabs, along with a search bar and a "Double-click an object to add it into the formula" note. The bottom status bar indicates "1 object(s) selected" and the system information "P5_05_M0_Acc_hp_Fujitsu_USB_Label | OsigNoviza | Administrator (Bypass)".

Složene metrike/mere

Komponente mera – TRANSFORMACIJE

3. Stvara se nova metrika sa odnosom metrika (indeks rastaobičan)





Složene metrike/mere

Komponente mera – TRANSFORMACIJE

3. Stvara se nova metrika sa odnosom metrika (indeks rastaobičan)

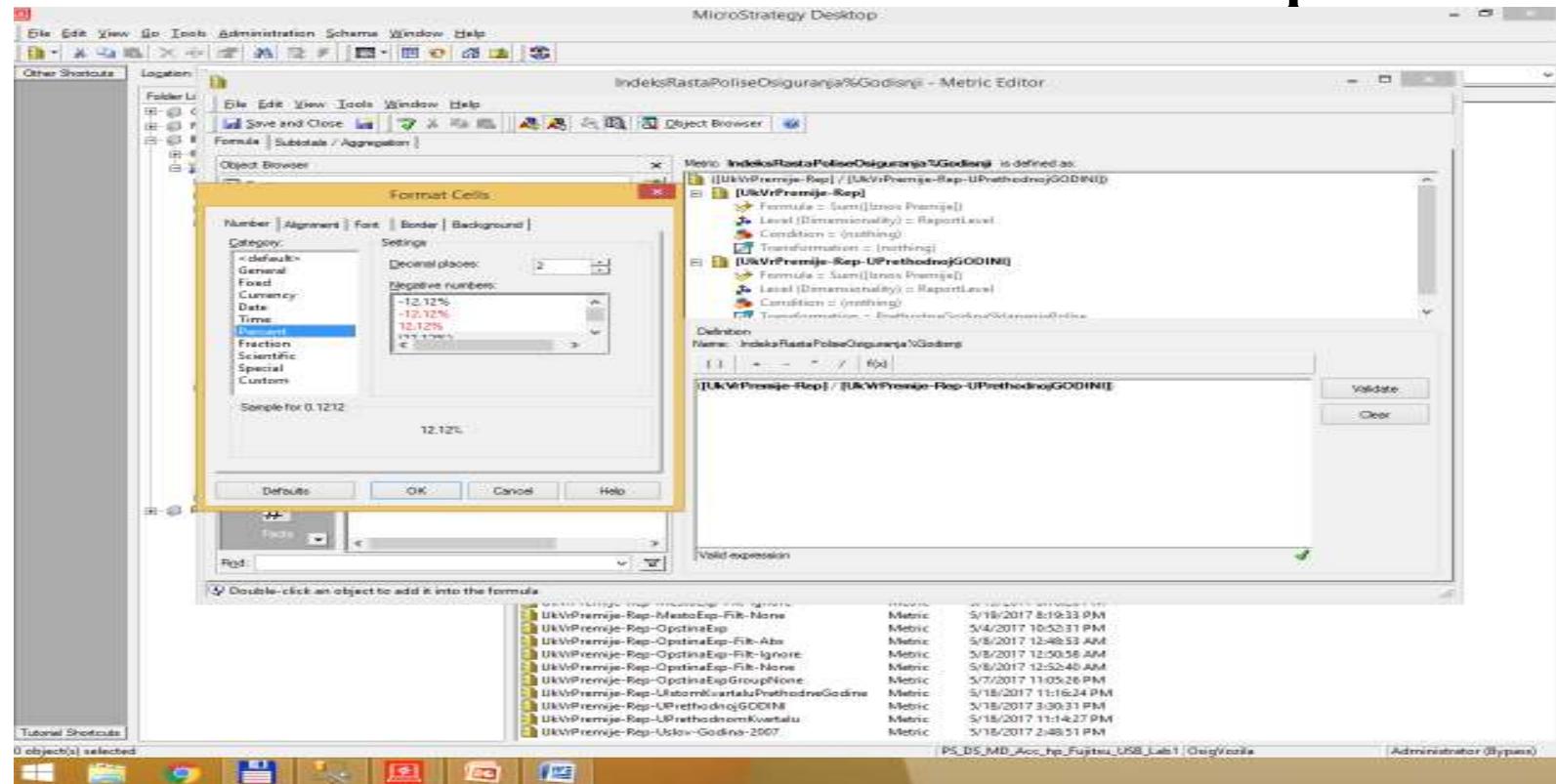
The screenshot displays the MicroStrategy Desktop interface, specifically the Metric Editor. A 'Format Cells' dialog box is open, showing options for number format: Decimal places (2), Use thousand separator (checked), and Negative numbers (-1,234.12, -1,234.12, 1,234.12, 1,234.12). The main workspace shows a list of metrics and their values:

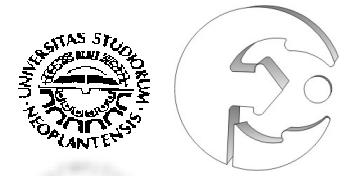
Metric	Value
UkrPremije-Rep-MestoExp-Filt-Nome	5/19/2017 8:19:33 PM
UkrPremije-Rep-OptimalExp	5/4/2017 10:52:31 PM
UkrPremije-Rep-OptimalExp-Filt-Als	5/8/2017 12:48:53 AM
UkrPremije-Rep-OptimalExp-Filt-Ignore	5/8/2017 12:50:06 AM
UkrPremije-Rep-OptimalExp-Filt-Name	5/8/2017 12:52:40 AM
UkrPremije-Rep-UpravoKontroluPravneGodine	5/18/2017 11:16:24 PM
UkrPremije-Rep-UPrethodnojGODINI	5/18/2017 3:39:31 PM
UkrPremije-Rep-UPrethodnomVekatala	5/18/2017 11:14:27 PM
UkrPremije-Rep-Ustov-Godina-2007	5/18/2017 3:48:51 PM

Složene metrike/mere

Komponente mera – TRANSFORMACIJE

4. Stvara se nova metrika sa odnosom metrika u procentima



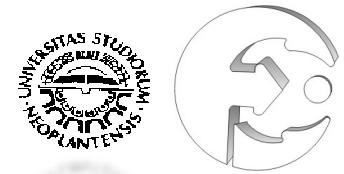


Složene metrike/mere

Komponente mera – **TRANSFORMACIJE**

5. Generiše se izveštaj pomoću transformacionih metrika

Metrica	Ukupno-Premije-Rep	Ukupno-Premije-Rep-UPrethodnojGODINI	IndeksRastaPoliseOsiguranjaGodisnji	IndeksRastaPoliseOsiguranjaGodisnji%
GodinaSklapanjaPolise	7.030.600	6.620.350	1.03	103.03%
2007				



Složene metrike/mere

Komponente mera – **TRANSFORMACIJE**

5. Generiše se izveštaj pomoću transformacionih metrika

IndeksRastaVrednostiPoliseKvartalnoApol%

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Rows Values

Report objects

Name

- GodinaKvartałSklap
- godkwart
- avgodkwartSklap
- GodinaSklapanjaPol
- godSklap
- IndeksRastaPoliseO
- IndeksRastaPoliseO
- UkvrPremije-Rep
- UkvrPremije-Rep-I

Report details

Godina/Sklapanja Polise	Godina/Kvartał/Sklapanja Polise	Metric	UkvrPremije-Rep	UkvrPremije-Rep-UPrethodnomKvartalu	IndeksRastaPoliseOConfiguracijaKvartałno	IndeksRastaPoliseOConfiguracijaKvartałno%
2006.	2006-I	2,134,250	1,157,250		1.84	184.42%
	2006-II	2,547,900	2,134,250	0.86	0.86	95.85%
2007.	2007-I	1,488,950	2,647,900	0.73	0.73	72.71%
	2007-II	1,688,900	1,488,950	1.13	1.13	112.39%
	2007-III	1,575,700	1,688,900	1.12	1.12	111.59%
	2007-IV	1,656,550	1,575,700	0.88	0.88	98.32%
		1,825,450	1,656,550	1.18	1.18	110.28%

Execution complete

Execution Time: 00:00:01 Rows: 7 Columns: 4 Local Template: Standard

11:30 PM 5/19/2013



Složene metrike/mere

Komponente mera – **TRANSFORMACIJE**

5. Generiše se izveštaj pomoću transformacionih metrika

The screenshot shows a Microsoft Access report window. The title bar reads 'IndeksRastaVrednostiPolisePolistimKvartalimaGodisanjeAbs%'. The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The toolbar includes Save and Close, Corporate, and various data manipulation icons. The left pane shows the 'Report objects' tree with nodes like 'GodinaKvarta', 'godkvarat', 'nogodkvarat', 'GodinaSkup', 'godSkup', 'IndexRastaP', 'IndexRastaP', 'UkVrPremije', and 'UkVrPremije'. The main pane displays a table with the following data:

GodinaSkupanjePolisa	GodinalniRastSkupanjePolisa	Metrika	UkVrPremije-Rap	UkVrPremije-Rap-UkazaniKvartalPrethodneGodine	IndeksRastaPoliseObrizvanjaKvartalnoOdrinovataUkazaniPrethodneGodine	Indeks
2007.	2007-I		1.888.900	1.157.250	1.45	
	2007-II		1.875.700	2.134.250	0.88	
	2007-III		1.858.550	2.847.900	0.61	
	2007-IV		1.825.450	1.455.950	1.23	

At the bottom, status bars show 'Execution complete', 'Execution Time 00:00:01', 'Rows: 4', 'Columns: 4', 'Local Template: Standard', and a system tray with icons for network, battery, and time (12:01 AM, 5/20/2013).



Složene metrike/mere

Komponente mera – TRANSFORMACIJE

5. Generiše se izveštaj pomoću transformacionih metrika

UkVrPremje-Rep-UkolicinKvartalaPrethodneGodine	IndeksRastaVrednostPoliseOsiguranjaKvartalaGodisnjeAbs%	IndeksRastaVrednostPoliseOsiguranjaKvartalaUkolikoUkolikoUkolicinPrethodneGodine	%
1,157,250	1.45	145.25%	
2,134,250	0.88	87.85%	
2,647,900	0.81	80.89%	
1,458,950	1.23	122.62%	