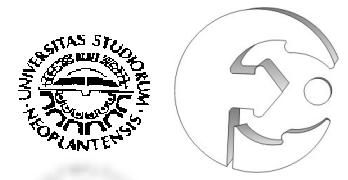




Sistemi poslovne inteligencije

**10. nedelja
1. Drill-Total-Distinct**

Doc. dr Imre Petković



Drill down/Drill up

Drill down

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

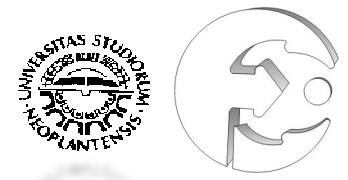
Report objects x Report details

Name: Filjala

	Metric	BrojFizickihLica	BrojFizickihLica distinct
Filjala			
GF Novi Sad		400	274
GF Subotica		260	199

Execution complete. Execution Time: 00:00:06 Rows: 2 Columns: 2 Local Template: Standard

12:25 PM 26/03/17



Drill down/Drill up

Drill down

The screenshot shows a reporting application window titled "New Report (1)". The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, and Help. The toolbar contains various icons for saving, closing, zooming, and filtering. The left sidebar lists report objects: Filjala, BrojFilzickihLica, and BrojFilzickihLica distinct. The main area displays a grid with columns: Metrics, BrojFilzickihLica, and BrojFilzickihLica distinct. A context menu is open over the first row of the grid. The "Drill" option is highlighted, and its submenu shows "Down", "Up", and "Up" again. Other options in the menu include Sort, Attribute Forms, Move, Remove from Grid, Formatting, Lock Object, Edit..., Remove from Report, Properties, and Edit Links... At the bottom, the status bar shows "Execution complete", "Execution Time 00:00:00", "Rows 2", "Columns 2", "Local Template Standard", and a date/time stamp "11:46 PM 5/6/2017". The taskbar at the very bottom shows icons for various Windows applications.



Drill down/Drill up

Drill down

New Report (1)->Ekspozitura

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

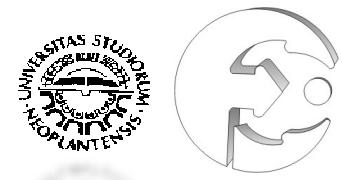
Report objects Report details

Name: Ekspozitura

	Medios	BrojFizickihLica	BrojFizickihLica distinct
NS AUTO 1	14	14	
NS AUTO 2	15	15	
Autoservis Milenkovic	15	15	
Autoservis Peris	14	14	
Autoservis Sasic	14	14	
Autoservis Milenkovic	12	12	
AMSS 3	12	12	
Autoservis Lutic	28	28	
Autoservis Brkić	29	29	
AMSS 4	29	29	
Autoservis Vukovac	28	28	
Autoservis Radosevic	28	28	
AMSS 5	28	28	
AMSS 6	28	28	
Autoservis Lutic	27	27	
Autoservis Radic	27	27	
Autoservis Kotor	28	28	
Autoservis Distrat	27	28	
AMSS 7	28	28	
AMSS 8	27	27	
AS Milenovic	27	27	
AS Rokic	29	29	
Autoservis Buntic	27	27	
AMSS 9	27	27	
AMSS 10	27	27	
AS Radic	27	27	
Autoservis Ostrovic	11	11	
AS Neimaricja	18	18	
AMSS 11	18	18	
AMSS 12	18	18	

Execution complete Execution Time: 00:00:01 Rows: 30 Columns: 2 Local Template Standard

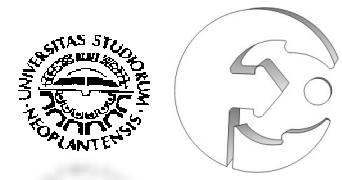
12:54 PM 06/02/2017



Drill down/Drill up

Drill down

The screenshot shows the SAP BusinessObjects Data Designer interface. The title bar reads "New Report (1)". The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The toolbar has various icons for saving, opening, and manipulating objects. A ribbon bar at the top right contains tabs like Corporate, Select.., Filter, Stat, and Viewmode. The left sidebar is titled "Report objects" and lists "Filiale", "BrojFiliala", and "BrojFiliala distinct". The main area is titled "Report details" and shows a table structure with columns: Metrics, BrojFiliala, and BrojFiliala distinct. A context menu is open over the "Filiale" row, displaying options: QBE, Other directions, Attribute Forms, Thyseus, Esportura, and Move. The "Esportura" option is highlighted. The bottom status bar indicates "Execution complete", "Execution Time 00:00:00", "Rows 2", "Columns 2", "Local Template Standard", and the date "05/05/2017".



Drill down/Drill up

Drill down

Screenshot of a reporting software interface showing a drill-down report titled "New Report (1) -> Ekspozitura".

The report details table has three columns: "Medios", "BrojFizickihLica", and "BrojFizickihLica distinct".

Medios	BrojFizickihLica	BrojFizickihLica distinct
Ekspozitura		
NS AUTO 1	14	14
NS AUTO 2	15	15
Autoservis Milenkovic	15	15
Autoservis Peric	14	14
Autoservis Simic	14	14
Autoservis Milenkovic	12	12
AMSS 3	12	12
Autoservis Latic	28	28
Autoservis Brkic	29	29
AMSS 4	29	29
Autoservis Valenovic	29	29
Autoservis Radosevic	28	28
AMSS 5	28	28
AMSS 6	28	28
Autoservis Lameza	27	27
Autoservis Radic	27	27
Autoservis Koncar	28	28
Autoservis Dizmar	27	26

Execution complete. Execution Time: 00:00:01. Rows: 18. Columns: 2. Local Template. Standard.



Drill down/Drill up

Drill down

	Metrics	BrojFizickihLica	BrojFizickihLica distinct
Filijala			
SF Rez.Sab		400	274

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Select... Values Rows Columns Width Height \$ % + 24x24

Report objects

Name

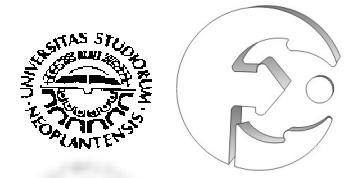
- Filijala
- BrojFizickihLica
- BrojFizickihLica distinct

Report details

Execution complete

Execution Time: 00:00:06 Rows: 2 Columns: 2 Local Template Standard

01:05 PM 5/6/2017



Drill down/Drill up

Drill down

New Report (1) -> Ekspozitura

File Edit View Insert Format Data Grid Move Window Help

Save and Close Print Preview Corporate Rows Values

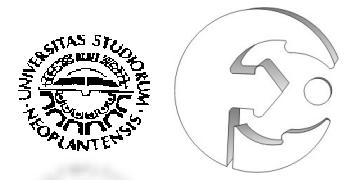
Report objects x Report details

Name:

- Ekspozitura
- BrojFizickihLica
- BrojFizickihLica distinct

	Metric#	BrojFizickihLica	BrojFizickihLica distinct
Ekspozitura			
AMSS 7		28	28
AMSS 8		27	27
AS Malaševic		27	27
AS Rokore		29	29
Autoservis Burdus		27	27
AMSS 9		27	27
AMSS 10		27	27
AS Hadžić		27	27
Autoservis Dzonyo		11	11
AS Hamarlija		18	18
AMSS 11		18	18
AMSS 12		18	18

Execution complete Execution Time: 00:00:01 Rows: 12 Columns: 2 Local Template Standard



Drill down/Drill up

Drill up

Screenshot of a reporting software interface showing a drill-up report.

The title bar reads "New Report (1)".

The menu bar includes: File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help.

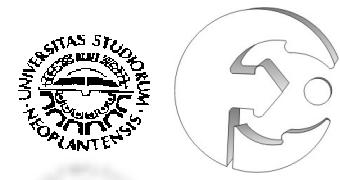
The toolbar includes: Save and Close, Corporate, Select, Filter, Sort, Group, Pivot, etc.

The left pane shows "Report objects" with items: Filjala, BrojFizickihLica, and BrojFizickihLica distinct.

The main pane displays a table titled "Report details".

	Metrics	BrojFizickihLica	BrojFizickihLica distinct
Filjala			
GF Novi Sad	400	274	
GF Subotica	260	199	

Execution complete. Execution Time: 00:00:06. Rows: 2. Columns: 2. Local Template: Standard. Date: 12:59 PM. User: NAGIBIĆIĆ.



Drill down/Drill up

Drill up

The screenshot shows a software interface for creating reports. At the top, a menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, and Help. Below the menu is a toolbar with various icons. The main area is titled "Report objects" and contains a tree view with items: Filjala, BrojFizickihLica, and BrojFizickihLica distinct. A context menu is open over the "BrojFizickihLica" item, with the "Up" option highlighted. The menu also includes Drill, Sort, Attribute Forms, Move, Remove from Grid, Formatting, Lock Object, Edit..., Remove from Report, Properties, and Edit Links... At the bottom of the screen, a taskbar shows the Windows Start button, a file icon, a folder icon, a search icon, a file icon, a network icon, a battery icon, a signal strength icon, a volume icon, and a clock showing 10:09 PM. A status bar at the bottom right indicates "Execution complete.", "Execution Time: 00:00:06", "Rows: 2", "Columns: 2", "Local Template: Standard", and "100%".



Drill down/Drill up

Drill up

New Report (1) -> GlavnaFilijala

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects x Report details

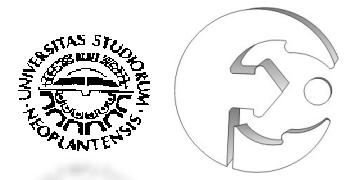
Name

- GlavnaFilijala
- BrojFizickihLica
- BrojFizickihLica distinct

Metric	BrojFizickihLica	BrojFizickihLica distinct
F Novi Sad	72	59
F Bacia Palanka	81	74
F Bacia Topola	112	97
F Vršac	135	112
F Šabac	128	118
F Zrenjanin	122	106

Execution complete. Execution Time: 00:00:01 Rows: 6 Columns: 2 Local Template Standard

102 PM 11/6/2017



Drill down/Drill up

Drill up

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Print Preview Select... Status Total Viewers 38.4% 10.4% 30.4% 31.2%

Report objects x Report details

Name:

- Filiale
- BrojFilzaFilika
- BrojFilzaFilika distinct

Metric	BrojFilzaFilika	BrojFilzaFilika distinct
Filiale	400	274
UF Revisie	360	100

DR Set ->

- Drill
- Other directions
- Attribute Forms
- Down
- Move
- Up
- Glovnafiliale

Execution complete Execution Time: 00:00:06 Rows: 2 Columns: 2 Local Template Standard

The screenshot shows a reporting interface with a toolbar at the top, a report object list on the left, and a main report details area. A context menu is open over a row in the report grid, listing options like Drill, Other directions, Attribute Forms, Down, Move, Up, and Glovnafiliale.



Drill down/Drill up

Drill up

New Report (1) -> GlavnaFilijala

File Edit View Insert Format Data Grid Move Window Help

Save and Close | Corporate | Rows + Values + | B J I E S % + M D | - + -

Report objects x Report details

Name

- GlavnaFilijala
- BroFilijalihLica
- BroFilijalihLica distinct

	Metric	BroFilijalihLica	BroFilijalihLica distinct
GlavnaFilijala			
F Sember		138	116
F Zrenjanin		122	106

Execution complete

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

10:00 PM 29/02/2017



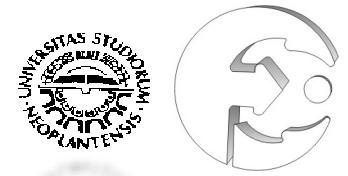
Totals-Subtotals

Subtotals-Totals

The screenshot shows a reporting interface with a yellow header bar. The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The title bar says "New Report (1)". The toolbar contains icons for Save and Close, Corporate, Rows, Values, and various styling options. On the left, a sidebar titled "Report objects" lists "Filjala", "BrojFizickihLica", and "BrojFizickihLica distinct". The main area is titled "Report details" and displays a table:

	Metric	BrojFizickihLica	BrojFizickihLica distinct
Filjala	GF NoviSal	400	274
GF Substica		260	199

The bottom status bar shows "Execution complete", "Execution Time 00:00:00", "Rows 2", "Columns 2", "Local Template", "Standard", and a timestamp of "1:39 PM 6/6/2017". The taskbar at the bottom has icons for File Explorer, Google Chrome, Microsoft Word, Microsoft Excel, and others.



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Advanced Sorting...

Report objects

Name

- Filjala
- BrojFizickihLica
- BrojFizickihLica distinct

Subtotals... Grand Totals F11

Thresholds... Show Threshold F12

Drill... Edit Drill Map...

Attribute Display... Report Data Options... VLB Properties... Report Details Properties...

Configure Data Mart... Remove Data Mart Definition

Configure Bulk Export Remove Bulk Export Definition

Export Options... Export To

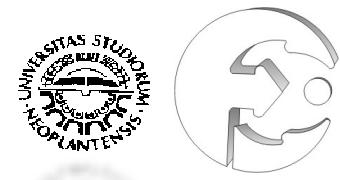
Report Caching Options Report Web Browsing Options... Re-execute Report

Re-group

Execution complete

Execution Time 00:00:00 Rows 2 Columns 2 Local Template Standard

1041 PM 5/5/2017



Totals-Subtotals

Subtotals-Totals

Screenshot of a reporting software interface showing the 'Subtotals' dialog box.

The 'Report objects' pane shows three items: Filjala, BrojFizickihLica, and BrojFizickihLica distinct.

The 'Report details' pane displays a table:

	Metric	BrojFizickihLica	BrojFizickihLica distinct
GF Raspodjelj.		400	274
GF Subtotal		200	199

The 'Subtotals' dialog box is open, showing the 'Definition' tab selected. Under 'Available subtotals (1 selected):', the 'Total' checkbox is checked, and 'Count' is also checked. Other options like 'Average', 'Minimum', and 'Maximum' are available but not selected. The description area states: 'This subtotal is defined in all the metrics in this report.'

At the bottom of the dialog box are 'OK', 'Cancel', and 'Help' buttons.

The status bar at the bottom of the window shows: Execution complete, Execution Time: 00:00:00, Rows: 2, Columns: 2, Local Template: Standard, 144 PM, 5/6/2017.

On the right side of the interface, there is a vertical toolbar with five icons: a magnifying glass, a hand, a window, a car, and a gear.



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Rows Values

Report objects

Name

- Filjala
- BrojFizickihLica
- BrojFizickihLica distinct

Report details

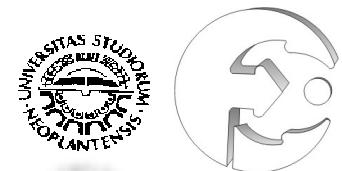
Metric	BrojFizickihLica	BrojFizickihLica distinct
GF Novi Sad	400	274
GF Subotica	260	199
Total	660	473

Execution complete

Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template Standard

1:45 PM 06/06/2017

Metric	BrojFizickihLica	BrojFizickihLica distinct
GF Novi Sad	400	274
GF Subotica	260	199
Total	660	473



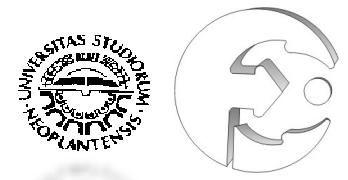
Totals-Subtotals

Subtotals-Totals

The screenshot shows the Microsoft SQL Server Data Tools (SSDT) interface. The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, Help. The toolbar has icons for Save and Close, Corporate, Rows, Values, and various data manipulation tools. On the left, the Report objects pane lists 'Filials' and 'BrojFilzaRBRica'. The main area shows a table with columns Metrics, BrojFilzaRBRica, and Bros. The table data is:

	Metric	BrojFilzaRBRica
Filials	GF Rev Sell	400
	GF Subsites	260
	Total	660

A context menu is open over the 'Total' row, with 'Subtotals...' selected. A 'Subtotals' dialog box is displayed, showing the 'Available subtotals (1 selected)' list. The 'Count' option is checked, and the 'Description' panel indicates it is defined in all metrics. Buttons at the bottom include OK, Cancel, and Help.



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name: Filiale

Metrics BrojFizickihLica BrojFizickihLica distinct

Filiale	Metrics	BrojFizickihLica	BrojFizickihLica distinct
GF Revo Sad	400	274	
GF Subotica	260	199	
Count	2	2	

Execution complete Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template: Standard

10:47 PM 06/07/2017



Totals-Subtotals

Subtotals-Totals

Screenshot of a reporting tool interface showing the 'Subtotals' dialog box.

The dialog box is titled 'Subtotals' and contains two tabs: 'Definition' and 'Display Options'. The 'Definition' tab is selected, showing a list of available subtotals (1 selected):

- Average**
- Count
- Minimum
- Maximum
- Product
- Median
- Mode
- Standard Deviation
- Variance
- Geometric Mean

Description:
Subtotal: Average
Row Subtotals: All Subtotals
Column Subtotals: All Subtotals
Page Subtotals: Grand Total

This subtotal is defined in all the metrics in this report.

Buttons at the bottom of the dialog box: Clear All, Advanced, OK, Cancel, Help.

The background shows a report object named 'Filjala' with a table:

	Metrics	BrojFizickihLica
GF_RiniSal		400
GF_Sobaca		200
Count		2



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Report objects

Name: Filjala

Metrics BrojFizickihLica BrojFizickihLica distinct

Filjala	Metrics	BrojFizickihLica	BrojFizickihLica distinct
GF Novi Sad	400	274	
GF Subotica	280	199	
Average	330	237	

Execution complete

Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template: Standard

15:00 PM 5/6/2017



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name Filiale BrojFizickihLica BrojFizickihLica distinct

Filiale Metrics BrojFizickihLica

GF Novi Sad	400
GF Subotica	200
Average	300

Subtotals

Available subtotals (3 selected):

- Sum
- Count
- Average
- Minimum
- Maximum
- Product
- Median
- Mode
- Standard Deviation
- Variance
- Geometric Mean

Description

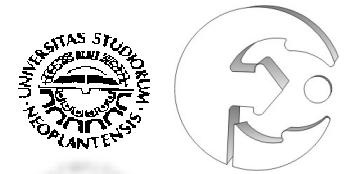
Subtotal Count
Row Subtotal: All Subtotals
Column Subtotal: All Subtotals
Page Subtotal: Grand Total

This subtotal is defined in all the metrics in this report.

Clear All Advanced... OK Cancel Help

Execution complete Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template Standard

Windows Taskbar icons



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name

- Filiale
- BrojFizickihLica
- BrojFizickihLica distinct

Report details

Metric	BrojFizickihLica	BrojFizickihLica distinct
Filiale		
GF Novi Sad	400	274
GF Subotica	250	199
Total	650	473
Count	?	?
Average	325	237

Execution complete

Execution Time: 00:00:00 | Rows: 5 | Columns: 2 | Local Template | Standard

05/2017 05:22 PM

The screenshot shows a reporting application window titled "New Report (1)". The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, and Help. Below the menu is a toolbar with various icons. On the left, there's a "Report objects" pane listing three items: "Filiale", "BrojFizickihLica", and "BrojFizickihLica distinct". The main area is titled "Report details" and contains a table with three columns: Metric, BrojFizickihLica, and BrojFizickihLica distinct. The table data is as follows:

Metric	BrojFizickihLica	BrojFizickihLica distinct
Filiale		
GF Novi Sad	400	274
GF Subotica	250	199
Total	650	473
Count	?	?
Average	325	237

The status bar at the bottom shows "Execution complete", execution time "00:00:00", rows "5", columns "2", local template, standard, and the date and time "05/2017 05:22 PM".



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Advanced Sorting...

Report objects

Name

- BrojFizickihLica
- BrojFizickihLica distinct

Subtotals...

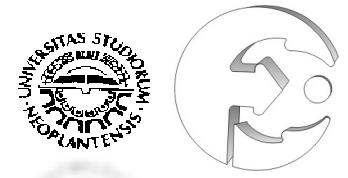
- Grand Total
- Thresholds...
- Show Threshold
- Drill...
- Edit Drill Map...
- Attribute Display...
- Report Data Options...
- VLDB Properties...
- Report Details Properties...
- Configure Data Mart...
- Remove Data Mart Definition...
- Configure Bulk Export...
- Remove Bulk Export Definition...
- Export Options...
- Export To...
- Report Caching Options...
- Report Web Browsing Options...
- Execute Report...
- Requery

Execution complete

Execution Time: 00:00:00 Rows: 5 Columns: 2 Local Template Standard

1:54 PM 06/06/2017

BrojFizickihLica distinct	
274	
199	
479	
2	
237	



Totals-Subtotals

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name

- Filjala
- BrojFizickihLica
- BrojFizickihLica distinct

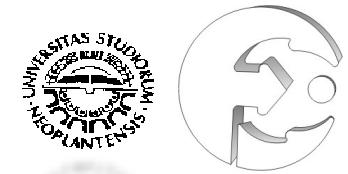
Report details

	Metric	BrojFizickihLica	BrojFizickihLica distinct
Filjala			
GF Novi Sad	400	274	
GF Subotica	260	199	
Total	660	473	

Execution complete.

Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template Standard

15:59PM 15/08/2017



Totals-Subtotals-Drill down/Drill up

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Advanced Sorting...

Report objects

Name

- Filala
- BrojFizickihLica
- BrojFizickihLica distinct

Subtotals... Grand Totals F11

Thresholds... Show Threshold F12

Drill... **Drill**

Edit Drill Map...

Attribute Display...

Report Data Options...

VLDB Properties...

Report Details Properties...

Configure Data Mart...

Review Data Mart Definition

Configure Bulk Export...

Remove Bulk Export Definition

Export Options...

Export To...

Report Caching Options

Report Web Browsing Options...

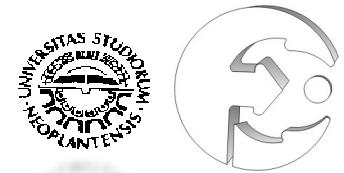
Execute Report

Re-group

Execution complete

Execution Time: 00:00:00 Rows: 3 Columns: 2 Local Template Standard

10:59PM 5/5/2017



Totals-Subtotals-Drill down/Drill up

Subtotals-Totals

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name: Filjala

Report details

	Metric	BroFilzickihLica	BroFilzickihLica distinct
GF Novi Sad	400	274	
GF Subotica	260	199	
Total	660	473	

Drill

Selected object: Filjala

Drill options:

- Other directions:
- Down
 - Ekspozitura
- Up
 - InternFajnska

Keep parent: Default

Keep threshold: Default

Invert across-level subtotal from: Default

When drilling, add the current page by element as part of the filter

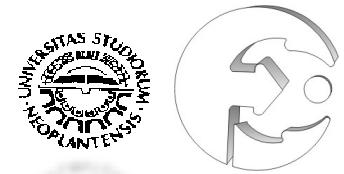
OK Cancel Help

Execution complete

Execution Time: 00:00:00 | Rows: 3 | Columns: 2 | Local Template | Standard

4:30 PM 5/6/2017

A screenshot of a reporting software interface. The main window shows a report titled 'New Report (1)' with a grid of data. A 'Drill' dialog box is open, centered over the grid. The dialog box has 'Filjala' selected as the 'Selected object'. Under 'Drill options', there are two main categories: 'Other directions' and 'Up'. Under 'Up', 'InternFajnska' is highlighted. Below these are three dropdown menus for 'Keep parent', 'Keep threshold', and 'Invert across-level subtotal from', all set to 'Default'. At the bottom of the dialog are 'OK', 'Cancel', and 'Help' buttons. The background shows the report's toolbar, menu bar, and a status bar at the bottom.



Totals-Subtotals-Drill down/Drill up

Subtotals-Totals

New Report (1) -> GlavnaFilijala

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Rows Values

Report objects

Name: GlavnaFilijala

Metric	BrojFilijalica	BrojFilijalica distinct
F Novi Sad	72	59
F Backa Palanka	81	74
F Backa Topola	112	97
F Vršac	125	112
F Šabac	138	115
F Zrenjanin	122	106
Total	666	564

Execution complete

Execution Time: 00:00:01 | Rows: 7 | Columns: 2 | Local Template | Standard

4:32 PM 06/06/2017



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the 'Metric Editor' window open. The title bar reads 'MicroStrategy Desktop' and 'New Metric (4) - Metric Editor'. The left pane displays a 'Folder List' with various project objects like 'Administration', 'My Objects', 'Metrics', and 'Schema Objects'. The main area is titled 'Object Browser' and shows a list of attributes under the 'Vozilo' schema. The 'Definition' section contains the formula: 'Count<UseLookupForAttributes=True>(ValueList)'. The status bar at the bottom indicates '19 Object(s)' and the date/time '5/5/2017 6:43 PM'.

Metric: New Metric (4) is defined as:

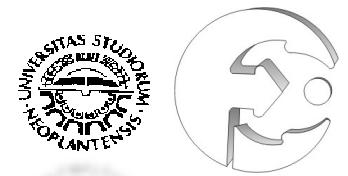
```
Count(Vozilo)(ReportLevel)
Formula = Count(Vozilo)
  ↗ Level (Dimensionality) = ReportLevel
  ↗ Condition = (nothing)
  ↗ Transformation = (nothing)
```

Definition:

Name: New Metric (4)

Count<UseLookupForAttributes=True>(ValueList)

19 Object(s) 5/5/2017 6:43 PM Administrator (Bypass)



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar "MicroStrategy Desktop" and "New Metric (4) - Metric Editor".

The left pane displays the "Object Browser" with a tree view of objects under "Vozilo". The right pane shows the definition of the metric "New Metric (4)".

Metric Definition:

```
Count(Vozilo)(ReportLevel)
  Formula = Count(Vozilo)
  Level (Dimensionality) = ReportLevel
  Condition = {nothing}
  Transformation = {nothing}
```

Definition:

Name: New Metric (4)

Context Menu (Right-clicked area):

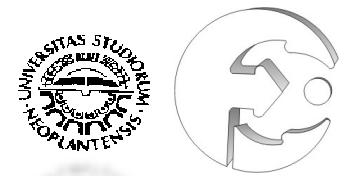
- Cut
- Copy
- Paste
- Select All
- Count properties
- Count parameters

Formula Bar:

```
Count<UseLookupForAttributes=True>(ValueList)
```

Bottom Status Bar:

19 Object(s) PS_DS_MD_Acc_hp_Fujitsu_USB_Lab1 OsigVozila Administrator (Bypass) 648 PM



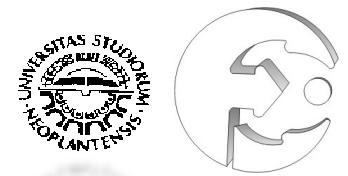
Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title "MicroStrategy Desktop" and "New Metric (4) - Metric Editor". The formula bar at the bottom displays the formula: `Count(UseLookupForAttributes=True)(ValueList)`. A "Count Parameters" dialog box is open in the foreground, listing the following parameters:

Name	Value
Distinct	False
FactID	True
Null	False
UseLookupForAttributes	True

The background shows the Object Browser with various objects listed under "My Shotcuts" and "Public Objects". The "Vozilo" object is selected in the browser. The status bar at the bottom indicates "19 Object(s)" and "Administrator (Bypass)".



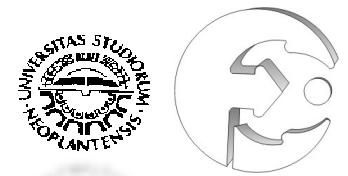
Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar 'MicroStrategy Desktop New Metric (4) - Metric Editor'. The left sidebar displays 'Other Shortcuts' and the current location 'PS_DS_MD_Acc_hp.F'. The main area shows the 'Object Browser' with a selected object 'Vozilo'. A 'Count Parameters' dialog box is open, listing the following parameters:

Name	Value
District	True
FacID	(Nothing)
Region	False
Snaga	
TipVozila	
Vozilo	
Voziste	
VrstaVozila	
Zaprema	

The formula in the editor is: `Count(UseLookupForAttributes=True)(valueList)`. The status bar at the bottom indicates '19 Object(s)' and 'Administrator (Bypass)'.



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the 'Metric Editor' window open. The title bar reads 'MicroStrategy Desktop - New Metric (4) - Metric Editor'. The left side features a 'Folder List' and 'Object Browser' pane. The 'Object Browser' pane displays a list of objects under the 'Vozilo' folder, including various attributes like 'BojaVozila', 'BrojSesijeVozila', 'GodinaProizvodnjeVozila', 'MarkaVozila', 'ModelVozila', 'RegistarskiBrojVozila', 'SnagaMotoraVozila', 'TipVozila', 'Vozilo', 'VrstaBojeVozila', 'VrstaGorivnaVozila', and 'ZapreminaMotoraVozila'. The main workspace shows the definition of 'New Metric (4)' as 'Count(Distinct=True)(Vozilo) [~]'. Below this, there is a preview area showing 'Count(UsedLookupForAttributes=True)(ValueList)'. The bottom status bar indicates 'Administrator (Bypass)' and the system time '16:52 PM 04/06/2017'.



Distinct

Distinct

The screenshot shows the Microsoft Report Editor application window titled "New Report (1) - Report Editor".

- Menu Bar:** File, Edit, View, Template, Filter, Insert, Format, Data, Grid, Move, Window, Help.
- Toolbar:** Save and Close, Corporate, Rows, Values, Anal, B, Western, S, %, +, 18-23, Local Filter, Local Template, OLAP.
- Report objects:** Shows two items: "PolisaOsiguranja" and "RadnikSkupanjaPoSe" under the "Attribute" type.
- Object Browser:** Shows categories like Home, My Places, Public Dts, Schemas, Data Books, Histories, and Databases.
- Metrics:** Shows a list of metrics under "My Shortcuts":
 - BroJedinstvihLica
 - BroJedinstvihLica distinct
 - BroPravneHilica
 - BroPravnihLica distinct
 - ProsecanVrednostPreocjenjeneStete
 - ProsecanIMesecniPrivodPoGodinama
 - ProsecanIMesecniPrivodPoGodinama-1-prvi
 - UkupanBrojVozila
 - UkupanBrojVozila distinct
 - UkupanIMesecniPrivodPoPolici
 - UkupanBrojMinusUkupnaPlata
 - UkupnaVrednostSplacedenogZnosa
 - UkupnaVrednostZnosaPoPremije
 - UkupnaVrednostProcenjeneStete
 - UkupnoSplacedenoMinusUkupnoProcenjeno
 - UNVIPremije-Mes
 - UNVIPremije-OptimalnaExp
 - UNVIPremije-Rej
 - UNVIPremije-Rej-Max
 - UNVIPremije-Rej-OptimalnaExp
- Report Filter:** Local Filter. A placeholder message: "Double-click here to add a qualification, or drag an object from the object browser."
- Report View:** Local Template. A table structure:

	Metrica	UkupanBrojVozila	UkupanBrojVozila
RadnikSkupanjaPoSe			0



Distinct

Distinct

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

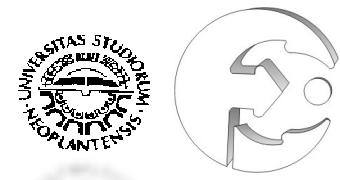
Save and Close Corporate Arial 8 Western

Report object x Report-details

Radički Sklapanja Polata:

			Miroslav	UkupanBroj/Vozila	UkupanBroj/Vozila distinct
1	100100	2103957505079	Petar Petrovic	749	749
2	100101	3108965292901	Lazar Lazarevic	749	749
3	100102	1201950909010	Ema Tot	749	749
4	100103	1101969202031	Iva Ras	749	749
5	100104	1504980202030	Rada Radic	749	749
6	100105	1607981303021	Marko Markovic	749	749
7	100106	19089833909021	Sima Simic	749	749
8	100107	3108984505031	Dragana Dragic	749	749
9	100108	2902977303229	Marina Maric	749	749
10	100109	1612979202087	Milan Milanovic	749	749
11	100201	2304980505000	Sanja Stojcic	749	749
12	100202	2305981505001	Marina Radic	749	749
13	100203	1001954101000	Dragana Maric	749	749
14	100204	1101964101001	Biljana Jugovic	749	749
15	100205	1303984101002	Jelena Vukovic	749	749
16	100206	1101964101003	Ivana Jugo	749	749
17	100207	1101974101004	Maja Tumbas	749	749
18	100208	1002972500500	Sonja Trninic	749	749
19	100209	1102972500501	Sanja Bodnjak	749	749
20	100210	1302982500502	Vanja Rodic	749	749
21	100211	1402982500503	Tanja Ivanićevic	749	749
22	100212	1502982500504	Ivo Vrdoljak	749	749
23	100213	1602984500505	Petar Petrovic	749	749
24	100214	1702983500506	Sima Dukic	749	749
25	100215	1802982500507	Dragan Vukovic	749	749
26	100216	1902981500508	Viktor Trojak	749	749
27	100217	2002982500509	Nenad Zimak	749	749
28	100218	2102976500510	Branko Brankovic	749	749
29	100219	2202976500511	Bojan Boršković	749	749

Execution complete Execution Time: 00:00:01 Rows: 100 Columns: 2 Local Template Standard



Distinct

Distinct

New Report (1)

File Edit View Data Window Help

Report details

Report Cache Used: No

Total Number of Passes: 2
Number of SQL Passes: 2
Number of Analytical Passes: 0

DB User: DS_DW_Oleg_hp_USB_Lab1
DB Instance: DBisrguanya

Tables Accessed:

dim_vozilo
dim_neckar

SQL Statements:

Pass0 - Execution Duration: 0:00:00.38
Data Fetch Duration from Datasource(s): 0:00:00.02
Total Data Fetch Duration: 0:00:00.02
Other Processing Duration: 0:00:00.02
Rows selected: 100

```
select a12.ID_neckar ID_neckar,  
       max(a12.vozilo) v1vozilo,  
       max(a12.JMBG_v1) JMBG_v1,  
       max(a12.mre_0_line_0),  
       max(a12.prezime_r1) prezime_r1,  
       count(a11.ID_vozilo) WUXBF51,  
       count(distinct a11.ID_vozilo) WUXBF52  
from dim_vozilo a11  
      cross join dim_neckar a12  
group by a12.ID_neckar
```

Pass1 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s): 0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.00
Populate Report Data

Analytical engine calculation steps:

1. Perform cross-tabbing

Execution complete

Execution Time: 00:00:01 Rows: 100 Columns: 2 Local Template: Standard

10:29 PM 5/22/2017



Distinct

Distinct

```
Total Number of Passes: 2
Number of SQL Passes: 2
Number of Analytical Passes: 0

DB User: DS_DW_Osig_hp_USB_Lab1
DB Instance: DBlosiguranje

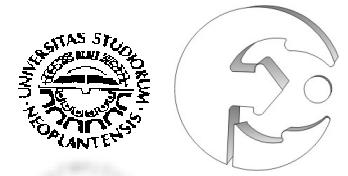
Tables Accessed:
dim_vozilo
dim_radnik

SQL Statements:

Pass0 - Execution Duration: 0:00:00.38
Data Fetch Duration from Datasource(s): 0:00:00.02
Total Data Fetch Duration: 0:00:00.02
Other Processing Duration: 0:00:00.02
Rows selected: 100
select a12.ID_radnika ID_radnika,
       max(a12.sifra_radnika) sifra_radnika,
       max(a12.JMBG_r) JMBG_r,
       max(a12.ime_r) ime_r,
       max(a12.prezime_r) prezime_r,
       count(a11.ID_vozila) WJXBFS1,
       count(distinct a11.ID_vozila) WJXBFS2
  from dim_vozilo a11
   cross join dim_radnik a12
 group by a12.ID_radnika

Pass1 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s): 0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.00
[Populate Report Data]

[Analytical engine calculation steps:
  1. Perform cross-tabbing
]
```



Distinct

Distinct

MicroStrategy Desktop

UkupanBrojVozila - Metric Editor

Metric **UkupanBrojVozila** is defined as:

- Count(Vozilo)(ReportLevel)
- Formula = Count(Vozilo)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Definition
Name: **UkupanBrojVozila**

() + - * / f(x)

Count properties Count parameters

Valid expression ✓

Double-click an object to add it into the formula

File Edit View Go Tools Administration Schema Window Help

Object Browser

Facts

Name	Type	Modificac
# Ispelacen Iznos	Fact	3/22/2017 8:32:30 AM
# Iznos Premije	Fact	3/22/2017 8:32:30 AM
# Procenjena Vrednos	Fact	3/22/2017 8:32:30 AM

My Shortcuts

- Home
- My Personal Ob...
- Public Objects
- Schema Objects
- Hierarchies
- Attributes
- Facts

Find:

Cut Ctrl+X Copy Ctrl+C Paste Ctrl+V Select All Ctrl+A Count properties Count parameters

Validate Clear



Distinct

Distinct

MicroStrategy Desktop

UkupanBrojVozila - Metric Editor

Metric: UkupanBrojVozila is defined as:

- Count(Vozilo)(ReportLevel)
- Formula = Count(Vozilo)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Count(Parameters)

Name	Value
Distinct	False
FactID	Imena Prezime
Null	(Nothing)
UseLookupForAttributes	Imena Prezime
	Procesirana Wednos

Definition

Name: UkupanBrojVozila

Count(Vozilo) [+]

Validate

Clear

OK Cancel

Double-click an object to add it into the formula

This screenshot shows the MicroStrategy Desktop interface, specifically the Metric Editor for a metric named "UkupanBrojVozila". The main pane displays the definition of the metric as "Count(Vozilo)(ReportLevel)". Below this, a "Count(Parameters)" dialog box is open, showing parameters for the count function. The "Distinct" parameter is set to "False", and the "FactID" is set to "Imena Prezime". Other parameters like "Null" and "UseLookupForAttributes" are also listed. The background shows the Object Browser and other parts of the Metric Editor interface.



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the "Metric Editor" window open. The window title is "UkupanBrojVozila - Metric Editor". The left pane displays the "Object Browser" with a "Facts" category selected, showing three facts: "Ispolen Iznos", "Iznos Prenje", and "Procjenjena Vrednos". The main pane shows the metric definition:

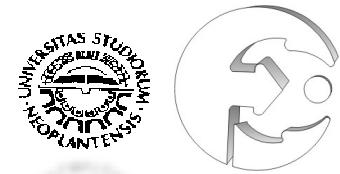
Metric **UkupanBrojVozila** is defined as:

- Count(Vozilo)(ReportLevel)
- Formula = Count(Vozilo)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Definition:
Name: UkupanBrojVozila
Count<FactID>[Iznos_Prenje]>(Vozilo) [~>]

Buttons: Validate, Clear

Valid expression: ✓



Distinct

Distinct

Screenshot of a reporting software interface showing a report titled "New Report (1)".

The report details pane shows a table with the following columns:

- Metric
- UkBrojBojaVoza
- UkupanBrojVoza distinct

The table contains 30 rows of data, each with a unique ID and values for Metric, UkarBrojBojaVoza, and UkarupanBrojVoza distinct.

	Metric	UkBrojBojaVoza	UkupanBrojVoza distinct
1	100100 2103957505079 Peter Petrović	10	749
2	100101 31039585292901 Lazar Lazarović	10	749
3	100102 12019509060110 Ena Trifunović	10	749
4	100103 11019509202031 Iva Radović	10	749
5	100104 15049902020300 Radoje Radić	10	749
6	100105 1607981303001 Miroslav Marković	9	749
7	100106 19039833960021 Siniša Šinajić	9	749
8	100107 3103984525031 Dragana Đurić	9	749
9	100108 29029773030229 Marina Matović	9	749
10	100109 16129792030087 Milan Milanić	9	749
11	100201 2304980505000 Sonja Stojčić	9	749
12	100202 2305981505001 Mirena Radić	9	749
13	100203 1001954101000 Dragana Murić	9	749
14	100204 11019584101001 Bojana Jugović	9	749
15	100205 1303984101002 Jelena Vidošević	9	749
16	100206 11019584101003 Irana Jugo	4	749
17	100207 1101974101004 Mejra Tumbas	4	749
18	100208 1002972500500 Sonja Trifunović	4	749
19	100209 1102972900501 Bojana Bodnjak	4	749
20	100210 13029802500502 Vanja Radić	4	749
21	100211 14029802500503 Tarija Istrilović	4	749
22	100212 15029802500504 Iva Vidošević	4	749
23	100213 1602984600505 Petar Petrović	4	749
24	100214 17029802500506 Siniša Đukic	4	749
25	100215 18029802500507 Dragana Vidošević	4	749
26	100216 19029801500508 Vlatko Trajkov	4	749
27	100217 20029802500509 Nenad Zivković	4	749
28	100218 2102978500510 Dranka Branković	4	749
29	100219 23039802500511 Bojan Rokonac	4	749

Execution complete

Execution Time: 00:00:00 Rows: 100 Columns: 2 Local Template Standard



Distinct

Distinct

MicroStrategy Desktop

UkupanBrojVozila distinct - Metric Editor

Metric **UkupanBrojVozila distinct** is defined as:

Count(Vozilo)(ReportLevel)

- Formula = Count(Vozilo)
- Level (Dimensionality) = ReportLevel
- Condition = (nothing)
- Transformation = (nothing)

Count Parameters

Parameters

Name	Value
Distinct	True
FactID	Iznos Prevoza
Null	(Nothing)
UseLookupForAttributes	Uspoređivanje Vrednosti

Definition

Name: UkupanBrojVozila distinct

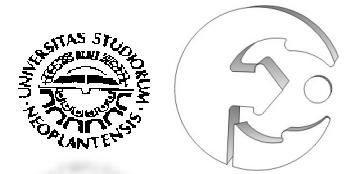
Count(Distinct=True>[Vozilo])

Validate Clear

Facts Pod

Double-click an object to add it into the formula

A screenshot of the MicroStrategy Desktop application. The main window is titled 'UkupanBrojVozila distinct - Metric Editor'. It shows the definition of the metric 'UkupanBrojVozila distinct' as 'Count(Vozilo)(ReportLevel)'. Below this, there is a list of properties: Formula (Count(Vozilo)), Level (ReportLevel), Condition (nothing), and Transformation (nothing). In the foreground, a modal dialog box titled 'Count Parameters' is open. It has a table with two rows: 'Distinct' set to 'True' and 'FactID' set to 'Iznos Prevoza'. There are also other options like 'Null ((Nothing))' and 'UseLookupForAttributes Uspoređivanje Vrednosti'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The background of the main window shows the 'Object Browser' and some navigation buttons.



Distinct

Distinct

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate Anal Western \$ % + - 10-20

Rows + Values + Anal Western \$ % + - 10-20

Report objects Report details

Name RadnikSkupanjaPolice

Metric ID UlicaBrojBajnokVozila UlicaBrojBajnokVozilaDistinct

1	100188	2100967506079	Petar	Petrovic	10	5
2	100181	31089865292901	Lazar	Lazarevic	10	4
3	100182	12019550090910	Ema	Teti	10	6
4	100183	11019690202031	Iva	Ros	10	6
5	100184	15049803202030	Rada	Radic	10	6
6	100185	1607981303021	Mario	Martovic	9	7
7	100186	19039803009021	Sima	Sinic	9	5
8	100187	31089846050901	Dragana	Dragic	9	6
9	100188	290297703229	Marina	Manic	9	7
10	100189	16129792020987	Milan	Milankovic	9	6
11	100201	23049005050000	Sanja	Stojacic	9	5
12	100202	2305981505001	Marina	Radic	9	5
13	100203	1001954101000	Dragana	Marić	9	5
14	100204	1101964101001	Biljana	Jugovic	9	5
15	100205	1303984101002	Jelena	Vukovic	9	4
16	100206	1101964101003	Hanna	Ajgo	8	3
17	100207	1101974101004	Maja	Tambas	4	3
18	100208	10039725000500	Sonja	Trifunovic	4	3
19	100209	11029725000501	Sanja	Bodnjak	4	4
20	100210	13029825000502	Vesna	Rodic	4	3
21	100211	14029825000503	Tanja	Krasiljevic	4	4
22	100212	19029825000504	Iva	Vranejak	4	4
23	100213	16029848000505	Petar	Petrovic	4	3
24	100214	17029835000506	Sima	Dukic	4	2
25	100215	18029825000507	Dragan	Vukovic	4	3
26	100216	19029815000508	Viktor	Tribak	4	4
27	100217	20029825000509	Nenad	Zrnlic	4	4
28	100218	2102979500510	Branislav	Branislavic	4	3
29	100219	2202976500511	Borna	Borkovic	4	3

Execution complete Execution Time: 00:00:00 Rows: 100 Columns: 2 Local Template Standard

A standard Windows taskbar showing icons for File Explorer, Task View, Start, and other system functions.



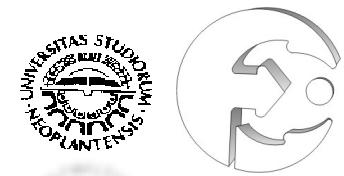
Distinct

Distinct

The screenshot shows the MicroStrategy Desktop Metric Editor window. The title bar reads "MicroStrategy Desktop BrojDatumuSklapanjaPolice - Metric Editor". The left sidebar shows a tree view of objects under "PS_DS_MD_Acc.hhp". The main area has tabs for "Formula" and "Subtotals / Aggregation". The "Formula" tab is selected, displaying the metric definition:

```
Metric: BrojDatumuSklapanjaPolice is defined as:  
Count(DatumSklapanjaPolice)||ReportLevel;  
Formula = Count(DatumSklapanjaPolice);  
Level (Dimensionality) = ReportLevel;  
Condition = (nothing);  
Transformation = (nothing)
```

Below this, the "Definition" section shows the name "BrojDatumuSklapanjaPolice" and the formula "Count(DatumSklapanjaPolice) (~)". The status bar at the bottom indicates "21 Object(s)" and "Administrator (bypass)".



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar "BrojDatumuSklapanjaPolice - Metric Editor". The main window displays the definition of the metric:

```
Metric: BrojDatumuSklapanjaPolice is defined as:  
Count(DatumSklapanjaPolice||ReportLevel);  
Formula = Count(DatumSklapanjaPolice);  
Level (Dimensionality) = ReportLevel;  
Condition = (nothing);  
Transformation = (nothing);
```

The "Definition" section shows the formula: "Name: BrojDatumuSklapanjaPolice" and the expression: "Count(DatumSklapanjaPolice||ReportLevel);". A context menu is open over the expression, with the option "Count properties" highlighted.

The left sidebar shows the "Object Browser" with the path "VremeSklapanjaPolice" selected, and the "Metrics" section expanded, listing various time-related attributes like "DanUMedeljSklapanjaPolice", "GodinaKvartaSklapanjaPolice", etc.

The bottom status bar indicates "21 Object(s)" and "Administrator (Bypass)".



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar "MicroStrategy Desktop Bro|Datum|SkidanjaPolise - Metric Editor". The left sidebar displays a folder structure under "Other Shortcuts" and "Tutorial Shortcuts". The main area shows the "Object Browser" with a selected metric "Bro|Datum|SkidanjaPolise". A "Count Parameters" dialog box is open, showing a table of parameters:

Name	Value
Distinct	False
FactID	True
Null	False
UseLookupForAttributes	True

Below the dialog, the formula is displayed as: `Count : UseLookupForAttributes = True : ValueList`. The status bar at the bottom indicates "Administrator (Bypass)" and the date/time "8:22 PM 5/5/2017".



Drill down/Drill up

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar "MicroStrategy Desktop" and "BrojDatumSkidanjaPolise - Metric Editor". The main window displays the "Object Browser" with the path "VremeSkidanjaPolisa". A dialog box titled "Count Parameters" is open, showing the following parameters:

Name	Value
Distinct	True
FactID	(Nothing)
Null	False
UseLookupForAttributes	True

Below the dialog, the formula is displayed as: `Count<UseLookupForAttributes=True>({ValueList})`. The status bar at the bottom indicates "21 Object(s)" and "Formula correct".



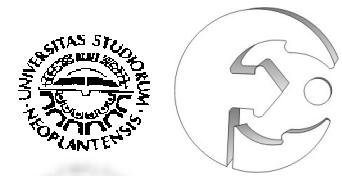
Distinct

Distinct

The screenshot shows the MicroStrategy Desktop Metric Editor window. The title bar reads "MicroStrategy Desktop" and "BrojRazlicitihDatumovaSklapanjaPolice - Metric Editor". The left sidebar shows a tree view of objects under "PS_DS_MD_Acc_hp_F" and "Objekti". The main area has tabs for "Formula" and "Subtotals / Aggregation". The "Formula" tab is selected, displaying the metric definition:

Metric: BrojRazlicitihDatumovaSklapanjaPolice is defined as:
Count(DatumSklapanjaPolice||ReportLevel)
Formula = Count(DatumSklapanjaPolice)
Level (Dimensionality) = ReportLevel
Condition = (nothing)
Transformation = (nothing)

Below this, the "Definition" section shows the name "BrojRazlicitihDatumovaSklapanjaPolice" and the formula "Count(DatumSklapanjaPolice) = >Count(DatumSklapanjaPolice) >= 1". The status bar at the bottom says "Formula correct".



Distinct

Distinct

New Report (1) - Report Editor

File Edit View Template Filter Insert Format Data Grid Move Window Help

Save and Close | Back | Forward | Stop | Refresh | Home | Print | Find | Help | Options | Corporate | Rows | Values | Arial | 8 | Western | B I U | S % | + 10 - 20 | 30 - A |

Report objects

Name	Type
VistaPolise	Attribute
nazivVrstePolise	Form
DostapPolise	Form
BrojDatumuSklapanjaPolise	Metric
BrojRazlicitihDatumovaSklapanjaPolise	Metric

Object Browser

Metrics

Name
BrojDatumuSklapanjaPolise
BrojRazlicita
BrojRazlicita distinct
BrojRazlicita
BrojRazlicita distinct
BrojRazlicitihDatumuSklapanjaPolise
ProsecnaVrednostProcenjeniStete
ProsecnaMesečniPrilogPoGodinama
ProsecniMesečniPrilogPoGodinama-1-prilog
UkupanBrojVozila
UkupanBrojVozila distinct
UkupanMesečniPrilogPolisa
UkupanPrilogMinusUkupneplatice
UkupnaVrednostIsploskePlaceneGraznica
UkupnaVrednostIznosPremje
UkupnaVrednostProcenjeniStete
UkupnoIsplacenoMinusUkupnoProcVrednost
UkupnoPranjeje-Mes

Report View: Local Template

Metric	BrojDatumuSklapanjaPolise	BrojRazlicitihDatumovaSklapanjaPolise
VrsnoPolise		

Local Filter Local Template OLAP

9:56 PM 15.07.2017



Distinct

Distinct

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Report objects

Name

- VrstaPolice
- nazivVrstePolice
- Dvignitecine
- BrojDatumuSklopanjaPolice
- BrojRazlicitihDatumuSklopanja

Report details

Metric	BrojDatumuSklopanjaPolice	BrojRazlicitihDatumuSklopanjaPolice
redovno	788	788
probno	789	789
100%	788	788
80%	788	788
80%	788	788
70%	788	788
Total	4,734	4,734

Execution complete

Execution Time: 00:00:00 Rows: 7 Columns: 2 Local Template OLAP

10:01 PM 5/5/2017

A screenshot of a reporting software interface titled "New Report (1)". The interface includes a menu bar with File, Edit, View, Insert, Format, Data, Grid, Move, Window, and Help. Below the menu is a toolbar with various icons. On the left, there's a "Report objects" pane showing a tree structure with items like VrstaPolice, nazivVrstePolice, Dvignitecine, BrojDatumuSklopanjaPolice, and BrojRazlicitihDatumuSklopanja. The main area is titled "Report details" and contains a table with three columns: Metric, BrojDatumuSklopanjaPolice, and BrojRazlicitihDatumuSklopanjaPolice. The table data includes rows for redovno, probno, 100%, 80%, 80%, 70%, and Total. The software has a classic Windows-style interface with a taskbar at the bottom showing various application icons.



Distinct

Distinct

Report details

dim_vreme

SQL Statements:

```
Pass0 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s):0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.02
Rows selected: 6
select a12.ID_vrste_polise ID_vrste_polise,
max(a12.naziv_vrste_polise) naziv_vrste_polise,
count(a11.datum) WJXBFS1,
count(distinct a11.datum) WJXBFS2
from dim_vreme a11
cross join dim_vrsta_polise a12
group by a12.ID_vrste_polise

Pass1 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s):0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.00
[Populate Report Data]

[Analytical engine calculation steps:
 1. Calculate subtotal: <Total>
 2. Perform cross-tabbing
]
```



Distinct

Distinct

SQLQuery1.sql - subab415.DW_Osig_hp_USB_Lab1 [subab415]\Korisnik (52) - Microsoft SQL Server Management Studio

```
File Edit View Query Project Debug Tools Window Help
DW_Osig_hp_USB_Lab1 Execute Debug
Object Explorer
Connect + 9 X SQLQuery1.sql - subab415\Korisnik (54) SQLQuery1.asp - subab415\Korisnik (52) *
DW_Osig_hp_USB_Lab1
Database Snapshots
DW_analitickaBP
DW_Osig_hp_USB_Lab1
Database Diagrams
Tables
System Tables
FileTables
dbo.dim_klijent
dbo.dim_organizaciona_jed
dbo.dim_ranek
dbo.dim_vozilo
dbo.dim_vreme
dbo.dim_vista_polise
Columns
ID_viste_polise (PK)
naziv_viste_polise (C)
sifra_grupe_polise (C)
naziv_grupe_polise (C)
Keys
Constraints
Triggers
Indexes
Statistics
dbo.fact_isplata_po_plo
dbo.fact_polisa_osigur
Columns
Query executed successfully
Results Messages
naziv_viste_polise Broj_dusuna_sklapanja_polise Broj razlicitih_dusuna_sklapanja_polise
1 100% 101 98
2 70% 85 85
3 80% 80 80
4 80% 80 80
5 100% 40 38
6 100% 344 295
Ln 9 Col 3 Ch 3 INS
subab415 (12.0 SP1) subab415\Korisnik (52) DW_Osig_hp_USB_Lab1 00:00:00 0 rows
Ready
Windows Taskbar
10:00 PM
3/6/2017
```

The screenshot shows a Microsoft SQL Server Management Studio (SSMS) window. The Object Explorer on the left shows the database structure for 'DW_Osig_hp_USB_Lab1'. The main pane displays a T-SQL query in the 'SQLQuery1.asp' tab:

```
use [DW_Osig_hp_USB_Lab1]
go
select [naziv_viste_polise], COUNT([datum_sklapanja_pol]) as 'Broj_dusuna_sklapanja_polise',
       COUNT(DISTINCT [datum_sklapanja_pol]) as 'Broj razlicitih_dusuna_sklapanja_polise'
  from [dbo].[fact_polisa_osigur] fpo
 join [dbo].[dim_vista_polise] dvp on dvp.ID_viste_polise=fpo.ID_viste_polise
 group by [naziv_viste_polise];
```

The results pane shows the output of the query:

naziv_viste_polise	Broj_dusuna_sklapanja_polise	Broj razlicitih_dusuna_sklapanja_polise
100%	101	98
70%	85	85
80%	80	80
80%	80	80
100%	40	38
100%	344	295

The status bar at the bottom indicates the query was executed successfully.



Distinct

Distinct

Report details

dim_vreme

SQL Statements:

```
Pass0 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s):0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.02
Rows selected: 6
select a12.ID_vrste_polise ID_vrste_polise,
max(a12.naziv_vrste_polise) naziv_vrste_polise,
count(a11.datum) WJXBFS1,
count(distinct a11.datum) WJXBFS2
from dim_vreme      a11
cross join dim_vrsta_polise   a12
group by a12.ID_vrste_polise

Pass1 - Execution Duration: 0:00:00.00
Data Fetch Duration from Datasource(s):0:00:00.00
Total Data Fetch Duration: 0:00:00.00
Other Processing Duration: 0:00:00.00
[Populate Report Data]

[Analytical engine calculation steps:
 1. Calculate subtotal: <Total>
 2. Perform cross-tabbing
]
```



Distinct

Distinct

SQLQuery1.sql - subab415.DW_Osig_hp_USB_Lab1 [subab415]\Korisnik (52) - Microsoft SQL Server Management Studio

```
File Edit View Query Project Debug Tools Window Help
DW_Osig_hp_USB_Lab1 Execute Debug DW_Osiguranje
Object Explorer
Connect to subab415 (SQL Server 12.0.4100.1 - subab415)
Databases
System Databases
Database Snapshots
DW_analitickaBP
DW_Osig_hp_USB_Lab1
Database Diagrams
Tables
System Tables
FileTables
dbo.dim_klijent
dbo.dim_organizaciona_jed
dbo.dim_reddik
dbo.dim_vozilo
dbo.dim_xmem
dbo.dim_zemsta_polisa
Columns
ID_vrste_polise (PK)
naziv_vrste_polisa (I)
sifra_grupe_polisa (I)
naziv_grupe_polisa (I)
Keys
Constraints
Triggers
Indexes
Statistics
dbo.fact_isplate_po_po
dbo.fact_polisa_osigur
Columns
Results Messages
100 %
Results
1 naziv_vrste_polisa Broj_datuma_sklapanja_polisa Broj_razlicitih_datuma_sklapanja_polisa
1 100% 730 578
2 70% 730 578
3 80% 730 578
4 90% 730 578
5 probno 730 578
6 redovna 730 578
Query executed successfully
subab415 (12.0 SP1) subab415\Korisnik (52) DW_Osig_hp_USB_Lab1 00:00:00 0 rows
Ready Ls 9 Col 3 Ch 3 INS
15:21 PM 26/3/17
```

The screenshot shows a Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer on the left shows the database structure for 'DW_Osig_hp_USB_Lab1'. The main window displays a T-SQL query in the 'SQLQuery1.sql' file:

```
use [DW_Osig_hp_USB_Lab1]
go
select [naziv_vrste_polise], COUNT([datum_sklapanja_po]) as 'Broj_datuma_sklapanja_polise',
       COUNT(DISTINCT [datum_sklapanja_po]) as 'Broj_razlicitih_datuma_sklapanja_polise'
  from [dbo].[fact_polisa_osigur] fpo
 cross join [dbo].[dim_vrsta_polise] dvp -- on dvp.ID_vrste_polise=fpo.ID_vrste_polise
 group by [naziv_vrste_polise];
```

The results pane shows the output of the query:

naziv_vrste_polisa	Broj_datuma_sklapanja_polise	Broj_razlicitih_datuma_sklapanja_polise
100%	730	578
70%	730	578
80%	730	578
90%	730	578
probno	730	578
redovna	730	578

A status bar at the bottom indicates "Query executed successfully".



Distinct

Distinct

SQLQuery1.sql - sublab415.DW_Osig_hp_USB_Lab1 (sublab415)\Korisnik (52)* - Microsoft SQL Server Management Studio

```
File Edit View Project Debug Tools Window Help
DW_Osig_hp_USB_Lab1 Execute Debug DW_Osiganje
Object Explorer
Connect to [DW_Osig_hp_USB_Lab1]
  DW_analitickaBP
  DW_Osig_hp_USB_Lab1
    Database Diagrams
    Tables
      System Tables
      FileTables
      dbo.dim_klijent
      dbo.dim_organizaciona_jedinica
      dbo.dim_radnik
      dbo.dim_vozilo
      dbo.dim_vreme
        Columns
          datum (PK, datetim
          naziv_dana (char(10)
          dan_u_nedelji (smal
          godina_nedelja (ch
          nedelja_u_godini (s
          sifra_godina_mjesec
          naziv_mjeseca (char
          godina_mjesec (char
          sifra_godina_kvartal
          naziv_kvartala (cha
          godina_kvartala (ch
          godina (smallint, n
          sifra_naziv_mjeseca (
          sifra_naziv_kvartala
        Keys
        Constraints
        Triggers
        Indexes
      
```

SQLQuery1.sql - sublab415(Korisnik (52)) - Microsoft SQL Server Management Studio

```
use [DW_Osig_hp_USB_Lab1];
go
select [naziv_vrste_polise], COUNT([datum]) as 'Broj datuma sklapanja polise',
       COUNT(DISTINCT [datum]) as 'Broj razlicitih datuma sklapanja polise'
  from [dbo].[dim_vreme] dv
  join [dbo].[fact_polisa_osigur] fpo on fpo.datum_sklapanja_po_dv.datum
  join [dbo].[dim_vrste_polise] dvp on dvp.ID_vrste_polise=fpo.ID_vrste_polise
 group by [naziv_vrste_polise];
go
```

Results

naziv_vrste_police	Broj datuma sklapanja polise	Broj razlicitih datuma sklapanja polise
100%	101	98
70%	85	85
80%	80	80
90%	80	80
petno	40	38
redovna	344	295

Query executed successfully.

sublab415 (12.0 SP1) - sublab415\Korisnik (52) | DW_Osig_hp_USB_Lab1 | 00:00:00 | 0 rows

Ready

11:06 PM
5/6/2017



Distinct

Distinct

Screenshot of MicroStrategy Desktop showing the Metric Editor window for the metric "BrojDatumuSklapanjaPolice".

The Metric Editor window displays the definition of the metric:

```
Metric: BrojDatumuSklapanjaPolice is defined as:
Count(DatumSklapanjaPolice) ReportLevel
Formula = Count(DatumSklapanjaPolice)
Level (Dimension) = ReportLevel
Condition = (nothing)
Transformation = (nothing)
```

The "Definition" section shows the formula: `Count<UseLookupForAttributes=True>(ValueList)`. A context menu is open over this formula, with the option "Count properties" highlighted.

The bottom pane of the Metric Editor shows a list of metrics:

Name	Metric
UkupniPremije-Rep-Mes	5/4/2017 10:15:17 PM
ProsečniMesečniBrojIspisaPoGodinama-1-proiz	5/3/2017 1:39:16 PM
ProsečniMesečniBrojIspisaPoGodinama	5/3/2017 12:02:06 PM
UkupanMesečniBrojOdPolisa	4/26/2017 3:31:25 PM
BrojFlockiLica	4/5/2017 2:18:16 PM
UkupanPrimljenihUkupnihPlata	3/29/2017 11:42:12 PM
UkupnoIspisanoMinusUkupnoProcVrednostStete	3/29/2017 11:38:05 PM
UkupnaVrednostIznosaPremije	3/28/2017 11:22:50 PM
UkupnaVrednostIspisanoCenoglavnosa	3/28/2017 11:21:33 PM
UkupnaVrednostProcVrednostStete	3/28/2017 11:20:37 PM



Distinct

Distinct

Screenshot of MicroStrategy Desktop showing the Metric Editor for 'BrojDatumaNiskapanjajaPolise'. A 'Count Parameters' dialog box is open, displaying the 'Parameters' table:

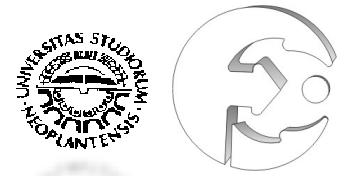
Name	Value
Distinct	False
FactID	(Nothing)
Null	(Nothing)
UseLookupForAttributes	True
ValueList	Procjenjeni Vrednos

The formula being edited is: Count<UseLookupForAttributes=True>(ValueList)

The bottom pane shows a list of objects:

- UkupniVrednostRasp-Mes
- ProsteceniMesecniPrilikPoGodinama-1-priliz
- ProsteceniMesecniPrilikPoGodinama
- UkupanMesecniPrilikOdPolisa
- BrojFazickihHilica
- UkupanPrilikMinutuUkupneElspitate
- UkupnoUkljucenoUkljucenoUkupnoPraciVrednostState
- UkupnaVrednostIspolacijePremije
- UkupnaVrednostIspolacijeogbrisao
- UkupnaVrednostProcjenjeniState

Bottom status bar: 0 object(s) selected. PS_DS_MG_Acc_hp_Fujitsu_USB_Label: DragZone. Administrator (Bypass).



Distinct

Distinct

New Report (1)

File Edit View Insert Format Data Grid Move Window Help

Save and Close Corporate

Report objects

Names

- VrstaPolice
- BrojDatumas5
- BrojRazlicitih

Report details

	Metrics	BrojDatumas5IzjednacPolice	BrojRazlicitihDatumas5IzjednacPolice
redovno	344	295	
izjednac	40	39	
100%	101	98	
80%	80	80	
60%	60	60	
70%	85	85	

Execution complete

Execution Time: 00:00:00 Rows: 6 Columns: 2 Local Template Standard

8:36 PM 5/22/2017

A screenshot of a reporting software interface. The window title is 'New Report (1)'. The menu bar includes File, Edit, View, Insert, Format, Data, Grid, Move, Window, and Help. Below the menu is a toolbar with various icons. On the left, there's a sidebar titled 'Report objects' with a tree view showing 'Names' and three items: 'VrstaPolice', 'BrojDatumas5', and 'BrojRazlicitih'. The main area is titled 'Report details' and contains a table with data. The table has four columns: an empty column, 'Metrics', 'BrojDatumas5IzjednacPolice', and 'BrojRazlicitihDatumas5IzjednacPolice'. The data rows are: redovno (344, 295), izjednac (40, 39), 100% (101, 98), 80% (80, 80), 60% (60, 60), and 70% (85, 85). At the bottom, it says 'Execution complete' and shows execution time, rows, columns, and other settings. The status bar at the bottom right shows the time as 8:36 PM and the date as 5/22/2017.



Distinct

Distinct

MicroStrategy Desktop

BrojDatumaSklapanjaPolise - Metric Editor

Metric **BrojDatumaSklapanjaPolise** is defined as:

```
Count(DatumSklapanjaPolise)(ReportLevel)
  Formula = Count(DatumSklapanjaPolise)
  Level (Dimensionality) = ReportLevel
  Condition = (nothing)
  Transformation = (nothing)
```

Definition

Name: BrojDatumaSklapanjaPolise

() | + - * / f(x)

Count<FactID=[Iznos Premije]>(DatumSklapanjaPolise) {~+}

Validate Clear

Tutorial Shortcuts

0 object(s) selected

PS_DS_MD_Acc_hp_Fujitsu_USB_Lab1 | OsigVozila | Administrator (Bypass)

The screenshot shows the MicroStrategy Desktop application window. The main title is "BrojDatumaSklapanjaPolise - Metric Editor". The left sidebar contains "Object Browser" sections for Facts, Hierarchies, and Attributes. The central pane displays the metric definition: "Metric BrojDatumaSklapanjaPolise is defined as: Count(DatumSklapanjaPolise)(ReportLevel)". Below this, there are sections for "Definition" (Name: BrojDatumaSklapanjaPolise, formula: Count<FactID=[Iznos Premije]>(DatumSklapanjaPolise) {~+}), "Validate", and "Clear". At the bottom, there is a table of data with columns: Name, Type, and Metric. The table lists several metrics, including "UkVrPremije-Rep-Mes", "ProsecniMesecniPrilivPoGodinama-1-prolaz", and "UkupanMesecniPrilivOdPolisa". The "Metric" column shows dates like "5/4/2017 10:15:17 PM" and "5/3/2017 1:39:16 PM". The bottom status bar shows "PS_DS_MD_Acc_hp_Fujitsu_USB_Lab1 | OsigVozila | Administrator (Bypass)".



Distinct

Distinct

The screenshot shows the MicroStrategy Desktop interface with the title bar "MicroStrategy Desktop" and "UKVPremije Bez Ponavljajuce Vrednosti - Metric Editor".

The left sidebar displays a "Folder List" with categories like Public Objects, Schema Objects, and Data Explorer. The "Object Browser" window is open, showing a list of "Facts" with three entries: "Ispolacen Iznos", "Iznos Premije", and "Procenjena Vrednost".

The main workspace shows the definition of the metric:

Metric: UKVPremije Bez Ponavljajuce Vrednosti is defined as:

Sum([Iznos Premije])||ReportLevel;

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

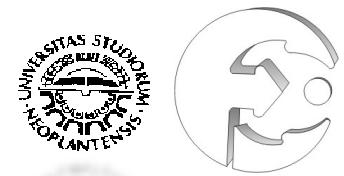
Definition:

Name: UKVPremije Bez Ponavljajuce Vrednosti

Sum(Distinct=True([Iznos Premije]))||ReportLevel;

Buttons: Validate, Clear

At the bottom, the taskbar shows "23 Object(s)" and the system tray indicates the date and time as "11:20 PM 5/6/2017".



Distinct

Distinct

Screenshot of the Report Editor interface showing the creation of a report titled "BrojVistaPolisaPoDatumimaSaBezPonavljanja".

The interface includes:

- Report objects:** A tree view showing objects under "VistaPolice": "nazivvrstePolice" (Attribute), "Ovristpolise" (Form), "UkVrPremijeBezPonavljajsteVrPremije" (Metric), and "UkVrPremije-Rep" (Metric).
- Object Browser:** A list of metrics, including:
 - BrojRadicnihDatumuSklopanjaPolise
 - ProsečnaVrednostProcenjenihStata
 - ProsečniMesečniPrilivPoGodinama
 - ProsečniMesečniPrilivPoGodinama-1-proj
 - UkupanBrojVoda
 - UkupanBrojVoda district
 - UkupanMesečniPrilivOdPolisa
 - UkupanPrilivMinimalniKupnjeplate
 - UkupnoVrednostPlaćenoGrađana
 - UkupnoVrednostImovinaPremije
 - UkupnoVrednostProcenjenihStata
 - UkupnoVrednostPlaćenoMinusUkupnoVrednost
 - UkVrPremijeBezPonavljajsteVrPremije
 - UkVrPremije-Mes
 - UkVrPremije-OptinaExp
 - UkVrPremije-Rep
 - UkVrPremije-Rep-Mes
 - UkVrPremije-Rep-OptinaExp
- Report details:** A panel for defining report filters, currently showing "Report Filter: 'Local Filter'". It instructs users to double-click to add qualifications or drag objects from the object browser.
- Report View:** Local Template. This section shows the current template structure with rows for "Matrica" and "VrstaPolisa".
- Toolbar:** Includes standard file operations (Save and Close, Print, etc.) and report-specific tools (Corporate, Rows, Values, etc.).
- Bottom Bar:** Includes links for "Local Filter", "Local Template", and "OLAP", along with system status indicators (1141 PM, 24/03/17).



Distinct

Distinct

BrojVistaPolisaPoDatumimaSaBezPonavljanja

File Edit View Data Window Help

Save and Close

Report details

Analytical Duration: 0:00:00:00
Other Processing Duration in Query Engine: 0:00:00:27

Number of Rows Returned: 6
Number of Columns Returned: 4
Number of Temp Tables: 0

Total Number of Passes: 2
Number of SQL Passes: 2
Number of Analytical Passes: 0

DB User: DS_DW_Oleg_no_USB_Lob1
DB Instance: DB03ognjana

Tables Accessed:
dim_vista_polisa
fact_polisa_pajgar

SQL Statements:

Pass0 - Execution Duration: 0:00:00:34
Data Fetch Duration from Datasource(s): 0:00:00:03
Total Data Fetch Duration: 0:00:00:03
Other Processing Duration: 0:00:00:02
Rows selected: 6

```
select a11.ID_vista_polisa, a12.ID_vista_polisa,
       max(a12.vista_vrsti_polisa) vista_vrsti_polisa,
       sum(a11.vraca_poenje) W_XBFS1,
       sum(distinct a11.vraca_poenje) W_XBFS2
  from fact_polisa_pajgar a11
   join dim_vista_polisa a12
    on (a11.ID_vista_polisa = a12.ID_vista_polisa)
 group by a11.ID_vista_polisa
```

Pass1 - Execution Duration: 0:00:00:00
Data Fetch Duration from Datasource(s): 0:00:00:00
Total Data Fetch Duration: 0:00:00:00
Other Processing Duration: 0:00:00:00

Populate Report Data

Analytical engine calculation steps:
1. Perform cross tabbing

Execution complete

Execution Time: 00:00:01 Rows: 6 Columns: 2 Local Template OLAP

Windows Taskbar icons: File Explorer, Edge, File Manager, Control Panel, Task View, Taskbar settings, Taskbar search, Taskbar icons, Taskbar buttons, Taskbar status bar.

System tray icons: Volume, Battery, Network, Taskbar settings, Taskbar icons, Taskbar buttons, Taskbar status bar.



Distinct

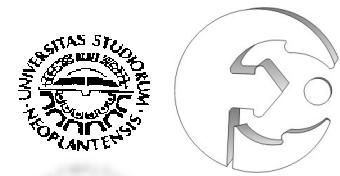
Distinct

Screenshot of a reporting software interface showing a report titled "BrojVrataPolisaPoDatumimaSaBezPonavljanja".

The report details section displays a table with the following data:

Mjerilo	UkVrPremije-Rep	UkVrPremijeBezPonavljanjaUvPremije
redovno	8,598,999	1,828,100
proba	139,200	34,850
100%	2,016,958	1,815,360
90%	1,069,458	987,000
80%	1,124,358	918,300
70%	1,692,199	744,200

Execution Time: 00:00:01 Rows: 6 Columns: 2 Local Template OLAP



Distinct

Distinct

SQLQuery1.sql - sulab415.DW_Dieg_hp_USB_Lab1 [sulab415]\Koranic (52) - Microsoft SQL Server Management Studio

File Edit View Query Project Debug Tools Window Help

New Query Execute Debug DW_Osiguranje

Object Explorer

DW_Osig_hp_USB_Lab1

SQLQuery1.sql - sulab415\Koranic (52)

SQLQuery1.sas - sulab415\Koranic (52)

```
1 use [DW_Osig_hp_USB_Lab1];
2 go
3
4 select [naziv_vrste_polise], SUM([iznos_premije]) as 'Ukupna vrednost premije po osiguranju',
5      sum(DISTINCT [iznos_premije]) as 'Ukupna vrednost premije-samo razliciti iznosi se sumiraju'
6  from [dbo].[fact_polisa_osigur] fpo
7  join [dbo].[dim_vrste_polise] dvp on dvp.ID_vrste_polise=fpo.ID_vrste_polise
8 group by [naziv_vrste_polise], dvp.ID_vrste_polise
9 order by dvp.ID_vrste_polise;
10 go
```

Results Messages

naziv_vrste_polise	Ukupna vrednost premije po osiguranju	Ukupna vrednost premije-samo razliciti iznosi se sumiraju
redmno	6566000.00	1626100.00
probno	1990000.00	58850.00
100%	2016250.00	1015350.00
90%	1689400.00	907000.00
80%	1724350.00	916300.00
70%	1692100.00	744200.00

Query executed successfully.

sulab415 (12.0 SP1) - sulab415\Koranic (52) - DW_Osig_hp_USB_Lab1 - 00:00:00 - 6 rows

Ready

11:29 PM 5/6/2017