SAP[®] MaxDB[™] Database Analyzer Charts

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Agenda

A Quick Tour - Step by step guides

Working with Database Analyzer Charts

Combining two or more Metrics in one Chart

Working with Metric Templates

Display/Compare/Concatenate via Metric Template

Working with the Navigator

Working with Database Analyzer Projects

→ Back to Agenda

• First steps while having access to the database

• First steps with no access to the database

• Further steps

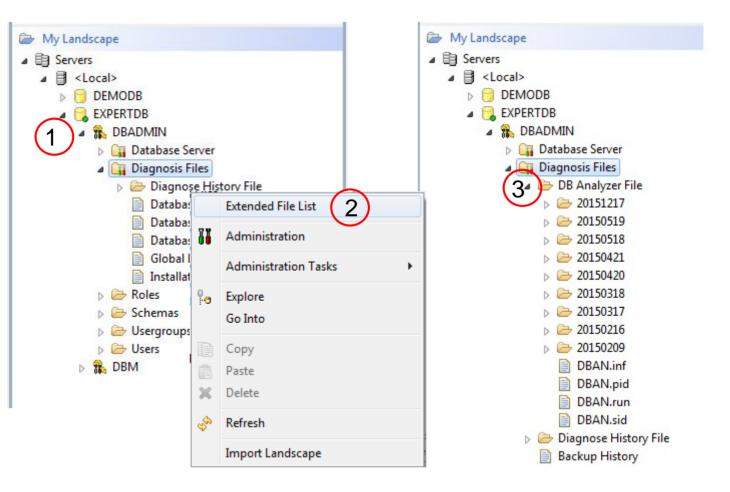
- Select columns for charting
- Choose a time span
- Compare with data from another csv file
- Merge two csv files in one chart
- Export charts to image files
- Further chart functionality

A Quick Tour – While Being Online Start Database Studio – open Database Analyzer File folder

→ Back to Quick Tour

Start Database Studio and Login to the database as administrator

- Open the list of folders belonging to the administrator
- On Diagnosis Files folder apply the context menu function "Extended File list"
- The Database Analyzer
 File folder becomes
 visible.
 Now open it.



A Quick Tour – While Being Online Set the Preference Show extended diagnosis file list

 \rightarrow Back to Quick Tour

The DB Analyzer File folder will always appear right away if the according preference is set.

- Choose the **Preferences** function under the Window menu.
- On the Database Studio 2 Preferences page check the Show extended diagnosis file **list** option.
- The Database Analyzer File 3. folder will always be visible.

Window Help	Preferences	
New Window New Editor	type filter text General	Database Studio
Open Perspective Show View	Data Management Database Studio Editors	 Restore connection state of databases on startup Name of database in editor title Database identifier upper case
Customize Perspective Save Perspective As	Export/Import Label Decorations Log File Viewer	 Dubble identified upper case Show "My Repository" tree in explorer view Show "My Current Work" tree in explorer view
Reset Perspective Close Perspective Close All Perspectives	Logging Metric Folder Query Result	 Retrieve all database catalog objects Show only own database catalog objects Show database catalog sorted by schemas
Navigation •	Report Repository User Management	 Show database catalog softed by schemas Default action for database tables Show Content Show Content Show Definition
My Current Work	Help Install/Update Report Design Run/Debug	Preferred unit for size values: MB
(1)	Team	Show console for database management commands Write logfile "dbm_commands.log" with database management commands
EXPERTOB		dbm_commands.log Size: 3,0 MB dbm_commands.log cycle count: 3 cycles
 Database Server Diagnosis Files DBA Action Log Directory 		Append until file size has been reached Enable database event listener
 DB Analyzer File Diagnose History File Backup History 	?	Restore Defaults Apply OK Cancel

A Quick Tour – Online or Offline Select CSV file of interest

File

→ Back to Quick Tour

Navigate to the Database Analyzer data of interest

- Open the date folder of interest, here e.g. May 19th 2015?
- Double click on the csv file of interest e.g.: DBAN_IO or DBAN_OVERVIEW
- If you see now some charts then this means, that Database Studio delivers a Default Metric Template for this csv file.

Database Studio - <local>:EXPERTDB - SAP MaxDB Database St</local>	tudio		-			-		-						X
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5. My Repository	COUNT	DATE	TIME	DURATION	DELTA	VReads	VWrites	PReads	PWrites	Perm_VReads	Perm_VWI ^	DURATION		
🗁 Diagnosis Local Folder	51210	19.05.2015	00:03:11	184	1,083	642,4	129,5	697,2	160,548	525,127,230	13,245,695	DELTA		
🗁 Diagnosis Shared Folder	51300	19.05.2015	00:21:15	4	903	484,3	26,63	719,6	68,558	460,002,911	3,928,401	Virtual reads		
🗁 Local User Folder	51390	19.05.2015	00:36:26	3	902	429,9	28,42	1,995	113,581	406,938,171	5,199,597	Virtual writes		
🗁 Packages	51480	19.05.2015	00:51:29	3	902	469,8	17,63	3,320	45,568	458,396,413	6,333,029	Physical reads		
	51570	19.05.2015	01:06:33	2	902	682,3	227,4	1,169	136,870	467,732,263	7,254,813	Physical writes		
→ World	51660	19.05.2015	01:21:37	3	902	515.5	42.68	1.339	61,933	483,670,476	9,118,471	Perm page vir	ual reads	
🗁 Local 🔹	51750	19.05.2015	01:36:41	2	902	569,0	77,32	1,223	147,938	501,696,461	7,565,443	Perm page vir	ual writes	
🗁 My Landscape	51840	19.05.2015		2	901	271,8	25,69	1,035	46,370	251,186,286	4,978,801	Perm page phy	sical reads	
E Servers	51930	19.05.2015	02:06:48	-	902	659.5	60,68	1.393	105,392	620,900,917	18 615 718	Perm page phy	sical writes	
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📔 DEMODB	52110	19.05.2015	02:36:56		902	473,5	45,08	1,002	291,329	444,556,015	14,306,632	Temp page vir	tual writes	
😪 EXPERTDB	52200	19.05.2015	02:51:58	-	902	349.8	21,84	778,1	37,303	328,715,829	3,837,995	Temp page phy	sical reads	
🛼 DBADMIN	52200	19.05.2015	02:01:08		902	357,9	41,28	1,206	93,995	321,138,804	4,444,092	Temp page ph		
🙀 Database Server		19.05.2015		3	902	347.0			· ·			# of lobs read		
🙀 Diagnosis Files	52380			-			22,40	899,2	48,745	329,199,823	4,560,365	# of lobs writte	•n	
🗁 DB Analyzer File 💷	52470	19.05.2015	03:37:08		902	679,8	74,74	629,3	120,535	634,094,630	24,454,430	LOB page virtu		
alian	52560	19.05.2015	03:52:11		902	375,3	66,25	490,2	115,997	323,006,850	12,223,753	LOB page virtu		
20151217	52650	19.05.2015	04:07:15		902	434,1	57,19	559,4	138,638	393,808,144	14,269,220	LOB page phys		
io150519	52740	19.05.2015	04:22:20	2	902	566,9	65,87	211,4	125,931	522,973,070	20,768,000 🛫	LOB page phys		
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In this example the first column with data is "Virtual reads"

- 1. Double click on a column on the right side of the table
- 2. The column values are displayed as graph. (Double click again and the chart disappears.)
- 3. If you move the mouse over the column title you will see the long name of the column on the right side

	/20130313/0	BAN_IO.cs	v										
OUNT	DATE	TIME	DURATION	DELTA	VReads	VWrites	PReads	PWrites	3 errn_VReads	Perm_VWrites	Perm_PRea	<u> </u>	DURATION
210	19.05.2015	00:03:11	184	1.083	642.4 V	irtual read	97.2	160.548	525.127.230	13.245.695	697.071		DELTA
.300	19.05.2015	00:21:15	4	903	484.3	20.05	19.6	68.558	460.002.911	3.928.401	719.620		Virtual reads
.390	19.05.2015	00:36:26	3	902	429.9	28.42	1.995	113.581	406.938.171	5.199.597	1.995.292		Virtual writes
480	19.05.2015	00:51:29	3	902	469.8	17.63	3.320	45.568	458.396.413	6.333.029	3.320.612		Physical reads
.570	19.05.2015	01:06:33	2	902	682.3	227.4	1.169	136.870	467.732.263	7.254.813	1.169.409		Physical writes
.660	19.05.2015	01:21:37	3	902	515.5	42.68	1.339	61.933	483.670.476	9.118.471	1.339.472		Perm page virtual reads
750	19.05.2015	01:36:41	2	902	569.0	77.32	1.223	147.938	501.696.461	7.565.443	1.223.673		Perm page virtual writes
840	19.05.2015	01:51:45	2	901	271.8	25.69	1.035	46.370	251.186.286	4.978.801	1.035.357		Perm page physical reads
.930	19.05.2015	02:06:48	3	902	659.5	60.68	1.393	105.392	620.900.917	18.615.718	1.393.414		Perm page physical writes
020	19.05.2015	02:21:51	3	903	515.4	43.47	926.1	61.140	487.951.218	14.083.096	926.080	2	Temp page virtual reads
110	19.05.2015	02:36:56	3	902	473.5	45.08	1.002	291.329	444.556.015	14.306.632	1.002.272		Temp page virtual writes
200	19.05.2015	02:51:58	2	902	349.8	21.84	778.1	37.303	328.715.829	3.837.995	776.818		Temp page physical reads
290	19.05.2015	03:07:01	2	902	357.9	41.28	1.206	93.995	321.138.804	4.444.092	1.206.368		Temp page physical writes
380	19.05.2015	03:22:04	3	902	347.0	22.40	899.2	48.745	329.199.823	4.560.365	899.222		# of lobs read
470	19.05.2015	03:37:08	3	902	679.8	74.74	629.3	120.535	634.094.630	24.454.430	629.281		# of lobs written
560	19.05.2015	03:52:11	3	902	375.3	66.25	490.2	115.997	323.006.850	12.223.753	490.209		LOB page virtual reads
650	19.05.2015	04:07:15	2	902	434.1	57.19	559.4	138.638	393.808.144	14.269.220	559.418		LOB page virtual writes
740	19.05.2015	04:22:20	2	902	566.9	65.87	211.4	125.931	522.973.070	20.768.000	211.223		LOB page physical reads
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- Double click on the second column on the right side of the table
- 2. The column values are displayed as graph with the left scale

OUNT	DATE	TIME	DURATION	DELTA	VReads	VWrites	PReads	PWrites	Perm_VReads	Perm_VWrites	Perm_PRea 🔦		DURATION
210	19.05.2015	00:03:11	184	1.083	642.4	129.5	697.2	160.548	525.127.230	13.245.695	697.071		DELTA
300	19.05.2015	00:21:15	4	903	484.3	26.63	719.6	68.558	460.002.911	3.928.401	719.620 ≡		Virtual reads
390	19.05.2015	00:36:26	3	902	429.9	28.42	1.995	113.581	406.938.171	5.199.597	1.995.292		Virtual writes
80	19.05.2015	00:51:29	3	902	469.8	17.63	3.320	45.568	458.396.413	6.333.029	3.320.612		Physical reads
70	19.05.2015	01:06:33	2	902	682.3	227.4	1.169	136.870	467.732.263	7.254.813	1.169.409		Physical writes
60	19.05.2015	01:21:37	3	902	515.5	42.68	1.339	61.933	483.670.476	9.118.471	1.339.472		Perm page virtual reads
50	19.05.2015	01:36:41	2	902	569.0	77.32	1.223	147.938	501.696.461	7.565.443	1.223.673		Perm page virtual writes
40	19.05.2015	01:51:45	2	901	271.8	25.69	1.035	46.370	251.186.286	4.978.801	1.035.357		Perm page physical reads
30	19.05.2015	02:06:48	3	902	659.5	60.68	1.393	105.392	620.900.917	18.615.718	1.393.414		Perm page physical writes
20	19.05.2015	02:21:51	3	903	515.4	43.47	926.1	61.140	487.951.218	14.083.096	926.080	2	Temp page virtual reads
10	19.05.2015	02:36:56	3	902	473.5	45.08	1.002	291.329	444.556.015	14.306.632	1.002.272		Temp page virtual writes
00	19.05.2015	02:51:58	2	902	349.8	21.84	778.1	37.303	328.715.829	3.837.995	776.818		Temp page physical reads
290	19.05.2015	03:07:01	2	902	357.9	41.28	1.206	93.995	321.138.804	4.444.092	1.206.368		Temp page physical writes
380	19.05.2015	03:22:04	3	902	347.0	22.40	899.2	48.745	329.199.823	4.560.365	899.222		# of lobs read
70	19.05.2015	03:37:08	3	902	679.8	74.74	629.3	120.535	634.094.630	24.454.430	629.281		# of lobs written
60	19.05.2015	03:52:11	3	902	375.3	66.25	490.2	115.997	323.006.850	12.223.753	490.209		LOB page virtual reads
50	19.05.2015	04:07:15	2	902	434.1	57.19	559.4	138.638	393.808.144	14.269.220	559.418		LOB page virtual writes
40	19.05.2015	04:22:20	2	902	566.9	65.87	211.4	125.931	522.973.070	20.768.000	211.223		LOB page physical reads
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- Double click on the second column on the right side of the table
- 2. The column values are displayed as graph with the left scale
- 3. From the context menu choose Show in diagram (right scale) to display the graph with a separate scale on the right.

PERTDE	3/20150519/D	BAN_IO.cs	v									
OUNT	DATE	TIME	DURATION	DELTA	VReads	VWrites	PReads	PWrites	Perm_VReads	Perm_VWrites	Perm_PRea 🔶	DURATION
1210	19.05.2015	00:03:11	184	1.083	642.4	129.5	697.2	160.548	525.127.230	13.245.695	697.071	DELTA
300	19.05.2015	00:21:15	4	903	484.3	26.63	719.6	68.558	460.002.911	3.928.401	719.620 🗉	Virtual reads
1390	19.05.2015	00:36:26	3	902	429.9	28.42	1.995	113.581	406.938.171	5.199.597	1.995.292	Virtual writes
1480	19.05.2015	00:51:29	3	902	469.8	17.63	3.320	45.568	458.396.413	6.333.029	3.320.612	Physical reads
1570	19.05.2015	01:06:33	2	902	682.3	227.4	1.169	136.870	467.732.263	7.254.813	Hide in ta	
.660	19.05.2015	01:21:37	3	902	515.5	42.68	1.339	61.933	483.670.476	9.118.471	Hide in ta	able
750	19.05.2015	01:36:41	2	902	569.0	77.32	1.223	147.938	501.696.461	7.565.443	Hide in d	liagram
840	19.05.2015	01:51:45	2	901	271.8	25.69	1.035	46.370	251.186.286	4.978.801		2
930	19.05.2015	02:06:48	3	902	659.5	60.68	1.393	105.392	620.900.917	18.615.718	Show in a	diagram (right scala)
020	19.05.2015	02:21:51	3	903	515.4	43.47	926.1	61.140	487.951.218	14.083.096	Change of	color
110	19.05.2015	02:36:56	3	902	473.5	45.08	1.002	291.329	444.556.015	14.306.632	-	
2200	19.05.2015	02:51:58	2	902	349.8	21.84	778.1	37.303	328.715.829	3.837.995	Set min/r	max Value
2290	19.05.2015	03:07:01	2	902	357.9	41.28	1.206	93.995	321.138.804	4.444.092	Add new	Caluman
2380	19.05.2015	03:22:04	3	902	347.0	22.40	899.2	48.745	329.199.823	4.560.365	Add new	Column
2470	19.05.2015	03:37:08	3	902	679.8	74.74	629.3	120.535	634.094.630	24.454.430	Show/Hi	de invisible Columns
2560	19.05.2015	03:52:11	3	902	375.3	66.25	490.2	115.997	323.006.850	12.223.753		
2650	19.05.2015	04:07:15	2	902	434.1	57.19	559.4	138.638	393.808.144	14.269.220	Save as N	Aetric Template
2740	19.05.2015	04:22:20	2	902	566.9	65.87	211.4	125.931	522.973.070	20.768.000		
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- Double click on the second column on the right side of the table
- 2. The column values are displayed as graph with the left scale
- 3. From the context menu choose Show in diagram (right scale) to display the graph with a separate scale on the right.
- 4. See the second scale on the right side and the changed graph progression.

EXPER	TDB/2015051	9/DBAN_IC).csv 🖾								- 0
XPERTDE	/20150519/D	BAN_IO.cs	v								
COUNT	DATE	TIME	DURATION	DELTA	VReads	VWrites	PReads	PWrites	Perm_VReads	Perm_VWrites	Perm_PRea DURATION
51210	19.05.2015	00:03:11	184	1.083	642.4	129.5	697.2	160.548	525.127.230	13.245.695	697.071 DELTA
51300	19.05.2015	00:21:15	4	903	484.3	26.63	719.6	68.558	460.002.911	3.928.401	719.620 E Virtual reads
51390	19.05.2015	00:36:26	3	902	429.9	28.42	1.995	113.581	406.938.171	5.199.597	1.995.292 Virtual writes
51480	19.05.2015	00:51:29	3	902	469.8	17.63	3.320	45.568	458.396.413	6.333.029	Hide in table
51570	19.05.2015	01:06:33	2	902	682.3	227.4	1.169	136.870	467.732.263	7.254.813	nide in table
1660	19.05.2015	01:21:37	3	902	515.5	42.68	1.339	61.933	483.670.476	9.118.471	Hide in diagram
1750	19.05.2015	01:36:41	2	902	569.0	77.32	1.223	147.938	501.696.461	7.565.443	
1840	19.05.2015	01:51:45	2	901	271.8	25.69	1.035	46.370	251.186.286	4.978.801	Show in diagram (right scala)
1930	19.05.2015	02:06:48	3	902	659.5	60.68	1.393	105.392	620.900.917	18.615.718	Change color
2020	19.05.2015	02:21:51	3	903	515.4	43.47	926.1	61.140	487.951.218	14.083.096	
2110	19.05.2015	02:36:56	3	902	473.5	45.08	1.002	291.329	444.556.015	14.306.632	Set min/max Value
2200	19.05.2015	02:51:58	2	902	349.8	21.84	778.1	37.303	328.715.829	3.837.995	Add new Column
2290	19.05.2015	03:07:01	2	902	357.9	41.28	1.206	93.995	321.138.804	4.444.092	Add new Column
2380	19.05.2015	03:22:04	3	902	347.0	22.40	899.2	48.745	329.199.823	4.560.365	Show/Hide invisible Columns
2470	19.05.2015	03:37:08	3	902	679.8	74.74	629.3	120.535	634.094.630	24.454.430	
2560	19.05.2015	03:52:11	3	902	375.3	66.25	490.2	115.997	323.006.850	12.223.753	Save as Metric Template
2650	19.05.2015	04:07:15	2	902	434.1	57.19	559.4	138.638	393.808.144	14.269.220	
2740	19.05.2015	04:22:20	2	902	566.9	65.87	211.4	125.931	522.973.070	20.768.000	Save as Default Metric Template
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 \rightarrow Back to Quick Tour

A Quick Tour – Online or Offline

Open another csv file in the same date folder

 \rightarrow Back to Quick Tour

- Open in the same date folder another csv file e.g.: DBAN_IOTHREADS.csv
- 2. You can see DBAN_IOTHREADS.csv as specified in its **Default Metric Template** which has been installed together with the Database Studio software.

💽 Database Studio - <local>:EXPERTDB - SAP MaxDB Database Studio</local>																
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🖡 Explorer 🛛 📲 Outline 🗖 🗖	🔞 EXPER	RTDB/2015051	9/DBAN_IC).csv 🔞	EXPERTDE	8/201505	19/DBAN_IO	THREADS.csv	x	_						
🍕 sou 🔻 🏭 🖛 🗇 🞝 🔕 🚍 🔄	EXPERTD	B/20150519/D	BAN_IOTH	READS.csv												
₽. My Repository	COUNT	DATE	TIME	DURATION	DELTA	Reads	PagesRead	ReadTime	Writes	PagesWritten	WriteTime	PendingRequests	TenantReads	Tenar 4	•	DURATION
🗁 Diagnosis Local Folder	51210	19.05.2015	00:03:11	184	1.083	644	702.857	7,85	158	250.183	5,81	6	0	0		DELTA
🗁 Diagnosis Shared Folder	51300	19.05.2015	00:21:15	4	903	671	713.801	7,61	73.761	108.294	7,94	1	0	0 =		# of reads via iothreads
🗁 Local User Folder	51390	19.05.2015	00:36:26	3	902	1.86	2.001.335	7,73	146	196.025	4,27	40	0	0		# of pages read via iothreads
🗁 Packages	51480	19.05.2015	00:51:29	3	902	2.63	3.316.484	6,81	100	120.786	8,23	3	0	0		avg read time (ms) via iothreads
	51570	19.05.2015	01:06:33	2	902	1.05	1.170.943	6,75	179	244.950	10,28	7	0	0		# of writes via iothreads
🗁 My Landscape	51660	19.05.2015	01:21:37	3	902	1.21	1.339.644	7,2	73.371	105.024	4,37	24	0	0		# of pages written via iothreads
Servers A	51750	19.05.2015	01:36:41	2	902	1.16	1.224.261	7,97	139	224.899	13,63	3	0	0		avg write time (ms) via iothreads
	51840	19.05.2015	01:51:45	2	901	1.01	1.035.453	7,14	43.813	70.669	14,68	3	0	0		# of pending I/O requests
📔 DEMODB	51930	19.05.2015	02:06:48	3	902	1.33	1.394.579	6,85	136	185.878	5,45	6	0	0		# of reads from tenants
🔒 EXPERTDB	52020	19.05.2015	02:21:51	3	903	887	926.555	6,6	75.388	102.929	9,47	6	0	0	Ĺ	# of pages read from tenant volum
8 DBADMIN	52110	19.05.2015	02:36:56	3	902	963	1.002.347	6,04	204	407.144	8,97	4	0	0		avg read time (ms) from tenant vol
🙀 Database Server	52200	19.05.2015	02:51:58	2	902	735	777.585	7,14	56.759	70.745	3,4	4	0	0		# of writes to tenant volumes
🙀 Diagnosis Files	52290	19.05.2015	03:07:01	2	902	1.14	1.207.723	7	124	165.044	2,36	4	0	0		# of pages written to tenant volum
🗁 DB Analyzer File	52380	19.05.2015	03:22:04	3	902	875	898.545	7,26	56.918	79.739	2,65	5	0	0		avg write time (ms) to tenant volur
≥ 20151218	52470	19.05.2015	03:37:08	3	902	582	630.743	7,37	120	191.795	2,79	2	0	0		# of pending I/O requests on tenan
≥ 20151217	52560	19.05.2015	03:52:11	3	902	436	491.026	7,85	97.468	168.373	3,05	11	0	0		# of pages read via iothreads per se
	52650	19.05.2015	04:07:15	2	902	509	558.946	7,83	141	219.764	3,59	0	0	0		
DBAN_ANALYZER_TASK_STAT.csv	52740	19.05.2015	04:22:20	2	902	182	211.515	7,96	87.784	174.848	3,64	14	0	ο.	-	
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Choose a time span

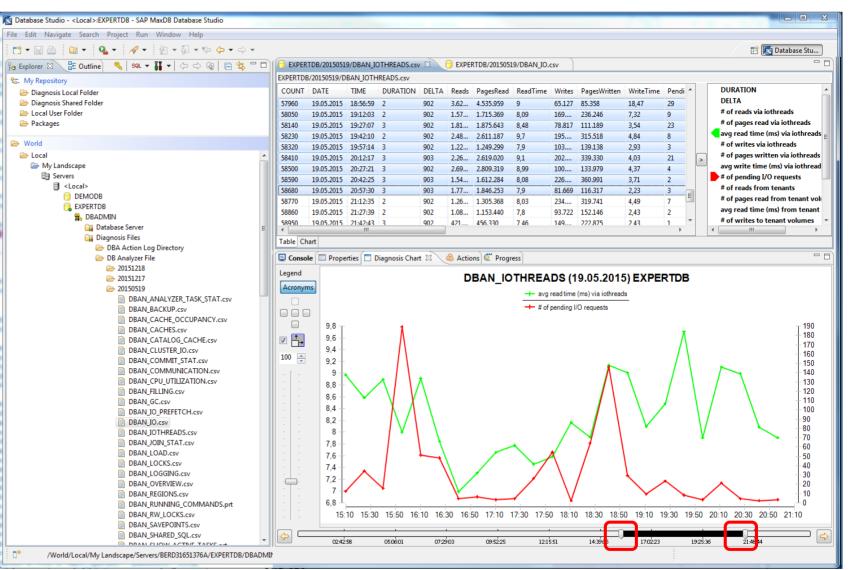
→ Back to Quick Tour

 Drag the left and right slider on the time scale to narrow down the time span.

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🗁 Diagnosis Local Folder	COUNT	DATE	TIME	DURATION	DELTA	Reads	PagesRead	ReadTime	Writes	PagesWritten	WriteTime	Pendi 4	·	DURATION
🗁 Diagnosis Shared Folder	56430	19.05.2015	14:40:37	3	903	3.58	3.974.721	7,18	184	253.931	2,17	47		DELTA
🗁 Local User Folder	56520	19.05.2015	14:55:40	3	902	4.61	4.822.991	8,35	359	517.459	2,9	18		# of reads via iothreads
🗁 Packages	56610	19.05.2015	15:10:45	3	903	3.94	5.075.100	8,97	205	280.647	3,8	12		# of pages read via iothreads
😂 World	56700	19.05.2015	15:25:51	3	903	3.68	4.180.957	8,58	402	565.993	3,42	34		avg read time (ms) via iothreads E
≥ Volu	56790	19.05.2015	15:40:57	4	903	3.02	3.781.343	8,89		320.455	2,93	15		# of writes via iothreads
→ My Landscape	56880		15:56:02		904		3.952.607	7,99		334.560	2,54	189	>	# of pages written via iothreads
Servers	56970		16:11:07		904		5.174.844	8,91		545.592	3,01	51		avg write time (ms) via iothread # of pending I/O requests
A <local></local>	57060	19.05.2015			904		3.315.653	7,84		235.675	2,56	48		# of reads from tenants
1 DEMODB	57150	19.05.2015	16:41:18		903	2.29	2.354.659	6,98		474.788	2,87	4		# of pages read from tenant vol
C EXPERTOB	57240		16:56:22		903		1.849.996	7,3		170.030	2,54	6		avg read time (ms) from tenant
👬 DBADMIN	57330		17:11:27		903		1.777.023	7,65		419.607	2,7	3	-	# of writes to tenant volumes -
🙀 Database Server 🛛 🗉	57420	19.05.2015	17:26:32	3	903	1.92	2.005.079	7 77	129	178.612	2 52	4		
🙀 Diagnosis Files	Table Ch	art												
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DBAN_SHARED_SQL.csv		-					-	-						
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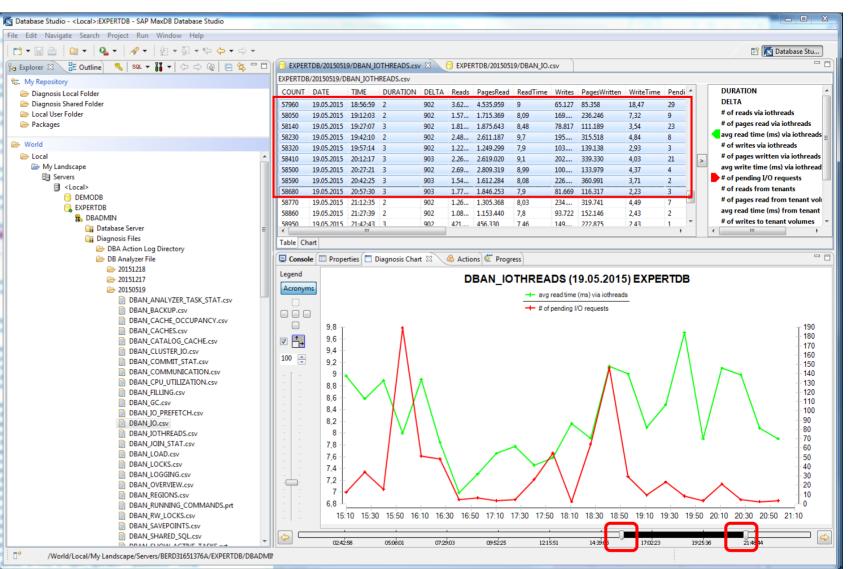
A Quick Tour – Select columns for charting Choose a time span

- Drag the left and right slider on the time scale to narrow down the time span.
- 2. As result you will see the time interval chosen and zoomed automatically regarding the chart view size.



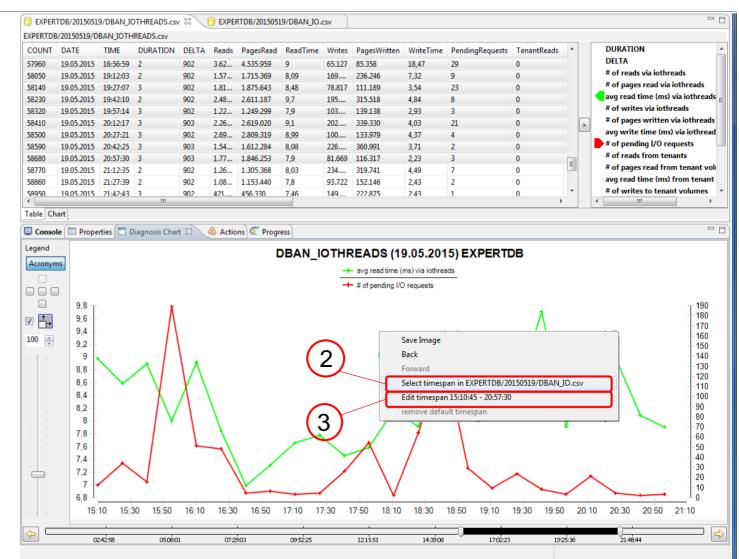
A Quick Tour – Select columns for charting Choose a time span

- Drag the left and right slider on the time scale to narrow down the time span.
- 2. As result you will see the time interval chosen and zoomed automatically regarding the chart view size.
- 3. Now in the table part you see the lines marked corresponding to the chosen time interval.



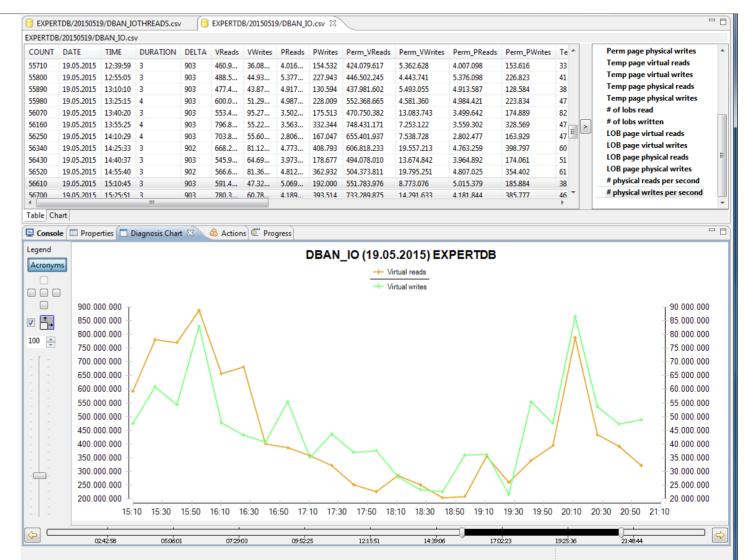
Compare with data from another csv file

- After you have narrowed down the time interval of interest
- With context menu function <u>Select timespan in</u> you can display the same time interval in the other csv file actually displayed.
- With context menu function
 <u>Set timespan</u> or
 <u>Edit timespan <from> <to></u>
 you can set the timespan as a default setting which effects ...



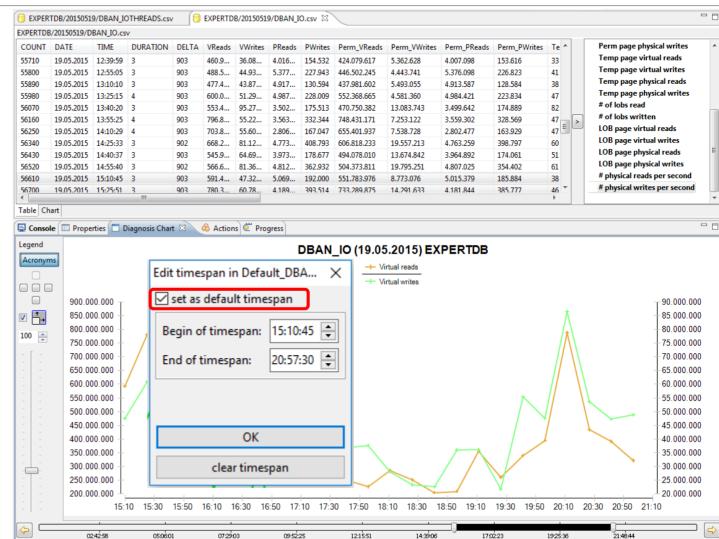
Compare with data from another csv file

- After you have narrowed down the time interval of interest
- 2. With context menu function Select timespan in you can display the same time interval in the other csv file actually displayed.
- 3. Now you can easily see the charts of the chosen csv file regarding the same time interval



Compare with data from another csv file

- After you have narrowed down the time interval of interest
- With context menu function
 Set timespan or
 Edith timespan <from> <to>
 you can choose
 set as default timespan
 which effects ...
- 3. ... all the charts displayed there after. They will be restricted to that **default timespan** until you press the **clear timespan** button.



A Quick Tour – Select columns for charting Export charts to image file

→ Back to Quick Tour

 Save the chart as image file with the context menu function Save Image

		Dran 10 mil	READS.csv											
OUNT	DATE	TIME	DURATION	DELTA	Reads	PagesRead	ReadTime	Writes	PagesWritten	WriteTime	PendingRequests	TenantReads	*	DURATION
7960	19.05.2015	18:56:59	2	902	3.62	4.535.959	9	65.127	85.358	18,47	29	0		DELTA
3050	19.05.2015	19:12:03	2	902	1.57	1.715.369	8,09	169	236.246	7,32	9	0		# of reads via iothreads
140	19.05.2015	19:27:07	3	902	1.81	1.875.643	8,48	78.817	111.189	3,54	23	0		# of pages read via iothreads
230	19.05.2015	19:42:10	2	902	2.48	2.611.187	9,7	195	315.518	4,84	8	0		avg read time (ms) via iothrea
320	19.05.2015	19:57:14	3	902	1.22	1.249.299	7,9	103	139.138	2,93	3	0		# of writes via iothreads
410	19.05.2015	20:12:17	3	903	2.26	2.619.020	9,1	202	339.330	4,03	21	0	>	
500	19.05.2015	20:27:21	3	902	2.69	2.809.319	8,99	100	133.979	4,37	4	0		avg write time (ms) via iothre
590	19.05.2015	20:42:25	3	903	1.54	1.612.284	8,08	226	360.991	3,71	2	0		# of pending I/O requests
580	19.05.2015	20:57:30	3	903	1.77	1.846.253	7,9	81.669	116.317	2,23	3	0	=	# of reads from tenants
770	19.05.2015	21:12:35	2	902	1.26	1.305.368	8,03	234	319.741	4,49	7	0	-	# of pages read from tenant v
860	19.05.2015	21:27:39	2	902	1.08	1.153.440	7,8	93.722	152.146	2,43	2	0		avg read time (ms) from tena
950	19.05.2015	21:42:43	3	902	421	456.330	7 46	149	222.875	2 43	1	0	Ŧ	# of writes to tenant volumes
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A Quick Tour – Select columns for charting Export charts to image file

- Save the chart as image file with the context menu function Save Image
- 2. There are several image formats supported.

OUNT	DATE	TIME	IREADS.csv DURATION	DELTA	Reads	PagesRead	ReadTime	Writes	PagesWritten	WriteTime	PendingRequests	TenantReads		Γ	DURATION
7960	19.05.2015			902		4.535.959	9	65.127	85.358	18,47	29	0			DELTA
050	19.05.2015	19:12:03	2	902		1.715.369	8,09	169	236.246	7,32	9	0			# of reads via iothreads
140	19.05.2015			902		1.875.643	8,48	78.817	111.189	3,54	23	0			# of pages read via iothreads
230	19.05.2015			902		2.611.187	9,7	195	315.518	4,84	8	0			🗲 avg read time (ms) via iothread
320	19.05.2015			902		1.249.299	7,9	103	139.138	2.93	3	0			# of writes via iothreads
410	19.05.2015	20:12:17		903		2.619.020	9,1	202	339.330	4,03	21	0			# of pages written via iothread
500	19.05.2015	20:27:21		902	2.69		8,99	100	133.979	4,37	4	0		2	avg write time (ms) via iothrea
590	19.05.2015	20:42:25		903		1.612.284	8,08	226	360.991	3,71	2	0			# of pending I/O requests
580	19.05.2015	20:57:30		903		1.846.253	7,9	81.669	116.317	2,23	3	0			# of reads from tenants
770	19.05.2015	21:12:35	-	902		1.305.368	8,03	234	319.741	4,49	7	0	Ξ		# of pages read from tenant vo
B60		21:27:39	2	902	1.08	1.153.440	7,8	93,722	152.146	2,43	2	0			avg read time (ms) from tenan
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A Quick Tour – Select columns for charting Export charts to image file

→ Back to Quick Tour

- Save the chart as image file with the context menu function Save Image
- 2. There are several image formats supported.

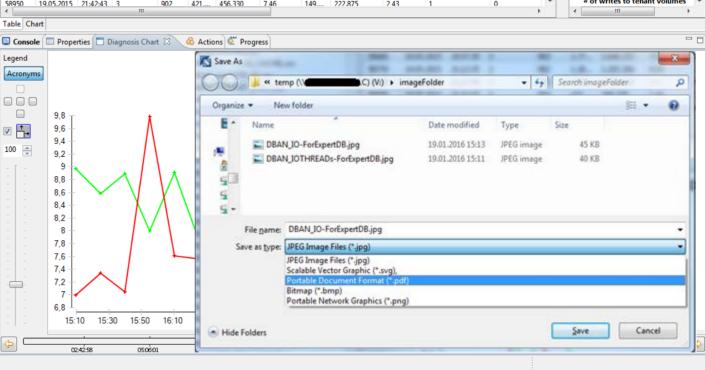
Continue with:

- Further Chart Functionality

Next button continues with:

- Quick Tour - Analyzing Performance Offline

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57960	19.05.2015	18:56:59	2	902	3.62	4.535.959	9	65.127	85.358	18,47	29	0		DELTA
58050	19.05.2015	19:12:03	2	902	1.57	1.715.369	8,09	169	236.246	7,32	9	0		# of reads via iothreads
58140	19.05.2015	19:27:07	3	902	1.81	1.875.643	8,48	78.817	111.189	3,54	23	0		# of pages read via iothreads
58230	19.05.2015	19:42:10	2	902	2.48	2.611.187	9,7	195	315.518	4,84	8	0		avg read time (ms) via iothreads 😑
58320	19.05.2015	19:57:14	3	902	1.22	1.249.299	7,9	103	139.138	2,93	3	0		# of writes via iothreads
58410	19.05.2015	20:12:17	3	903	2.26	2.619.020	9,1	202	339.330	4,03	21	0	5	# of pages written via iothreads
58500	19.05.2015	20:27:21	3	902	2.69	2.809.319	8,99	100	133.979	4,37	4	0		avg write time (ms) via iothread
58590	19.05.2015	20:42:25	3	903	1.54	1.612.284	8,08	226	360.991	3,71	2	0		# of pending I/O requests
58680	19.05.2015	20:57:30	3	903	1.77	1.846.253	7,9	81.669	116.317	2,23	3	0		# of reads from tenants
58770	19.05.2015	21:12:35	2	902	1.26	1.305.368	8,03	234	319.741	4,49	7	0	=	# of pages read from tenant volu
58860	19.05.2015	21:27:39	2	902	1.08	1.153.440	7,8	93.722	152.146	2,43	2	0		avg read time (ms) from tenant
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A Quick Tour - Analyzing Performance Offline

Step by step guide - First steps with no access to the database

→ Back to Quick Tour

Preliminary steps for downloading and analyzing Database Analyzer data

- Define the preferences Diagnosis Local Folder and Diagnosis Shared Folder
- Define the associated editor for *.csv endings
- Define Remote Metric folder path
- Restart Database Studio and download Database Analyzer data
 - Download via Database Studio
 - Download via DBACockpit

A Quick Tour Analyzing Performance Offline Define preferences Repository (1 of 6)

Repository Paths

- Set Diagnosis Local Folder as the local location for Database Analyzer data
- 2. Set Diagnosis Shared Folder as the shared location in the network for Database Analyzer data

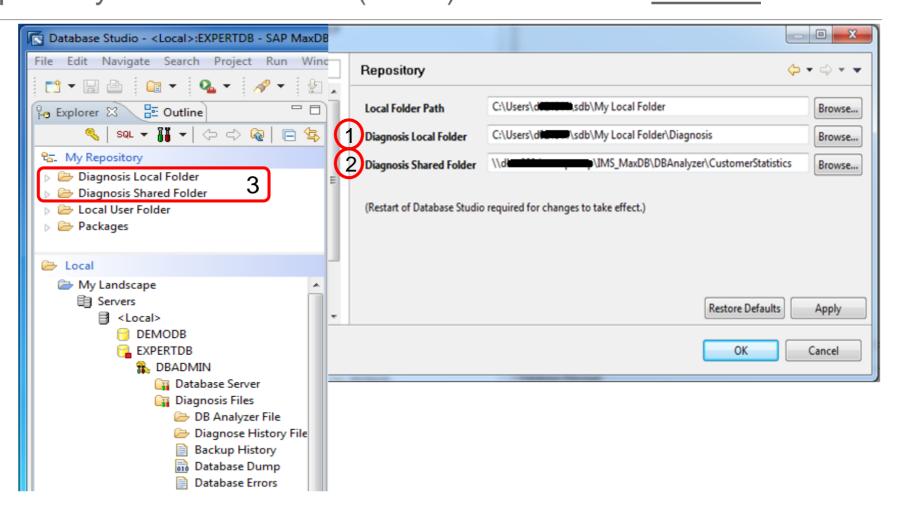
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Export/Import	(2	Diagnosis Shared Folder	\\dl	\IMS_MaxDB\DBA	nalyzer\CustomerStatistics	Browse
Label Decorations Log File Viewer Logging Metric Folder Query Result Report Report User Management		(Restart of Database Studio	required for ch	nanges to take effect.)		
⊳ Help	-				Restore Defaults	Apply
?					ОК	Cancel



A Quick Tour Analyzing Performance Offline Define preferences Repository (2 of 6)

Repository Paths

- Set Diagnosis Local Folder as the local location for Database Analyzer data
- 2. Set Diagnosis Shared Folder as the shared location in the network for Database Analyzer data
- 3. After restarting Database Studio you will see these folders in the upper left section of the explorer



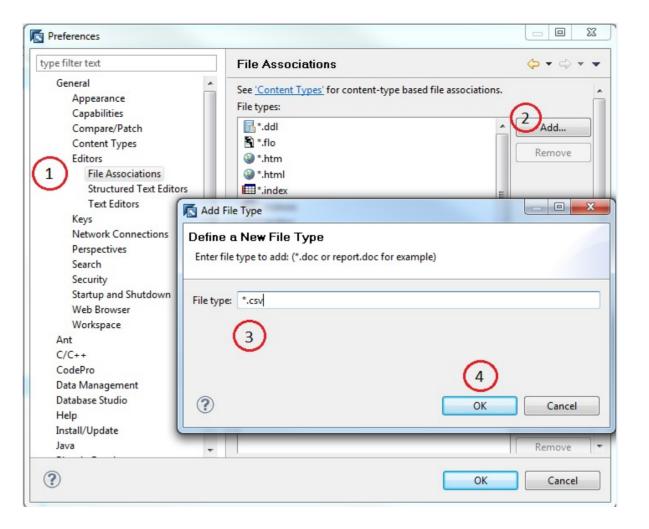
-> Back

A Quick Tour Analyzing Performance Offline Prerequisites – Define new File Association 1 (3 of 6)

Define Preferences File Associations

- Select General Editors
 - 1. File Associations
 - 2. Click Add
 - 3. Enter *.csv
 - 4. Click Ok

Continue with next slide



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A Quick Tour Analyzing Performance Offline Prerequisites – Define new File Association 2 (4 of 6)

New File Association

- 1. Associated editors: Click Add
- 2. Choose Diagnosis File (Table and Chart
- 3. Click Ok
- 4. Click Ok
- 5. Restart Database Studio

type filter text	File Associations	⇔ - ⇔ -	-
General			1
Appearance	*.csv	Add	
Capabilities	📑 *.ddl	Remove	
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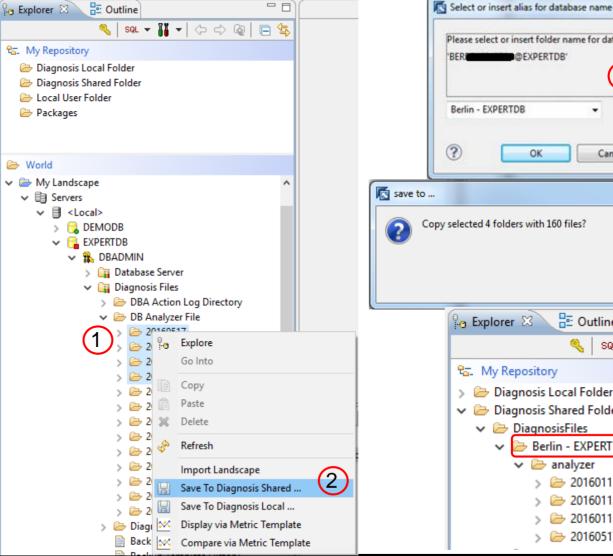
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A Quick Tour Analyzing Performance Offline

Download Database Analyzer Data via Database Studio (5 of 6)

Download Database Analyzer Data via **Database Studio**

- 1. Login to the database of interest and navigate to the Database Analyzer File folder.
- 2. Select the date folders and choose context function "Save To Diagnosis..."
- 3. Choose a name for the Database Analyzer folder and press OK & Yes
- 4. See the data now in the resp. Repository folder



Select or insert alias for database name Please select or insert folder name for database 3 Cancel X 3 No Yes E Outline 🄍 | SQL 👻 🏭 🗁 Diagnosis Local Folder Diagnosis Shared Folder Berlin - EXPERTDB > 🧁 20160111 20160112 > 🗁 20160113 > > > 20160517

-> Back

A Quick Tour Analyzing Performance Offline Download Database Analyzer Data via DBACOCKPIT (6 of 6)

Provide Database Analyzer Data via transaction DBACOCKPIT

- Login to the database of interest
- Download Database Analyzer data of interest
 - 1. Goto Expert Analyis
 - 2. Select the date folders of interest
 - 3. Choose "Download Files" function
 - 4. Choose a path, that is <u>defined in Database</u> <u>Studio preferences</u> and press OK

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Documentation	• 20.11.2015		-	
	• 19.11.2015			

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A Quick Tour Analyzing Performance Prerequisites – Define location for remote metric templates

Remote Metric Path

Optional settings for a location in order to share metric templates

 Enter a path as a location to be shared among a team

2. Press ok

The folder contents will be explained on another slide

Preferences					×
		Metric Folder		⇔ • ⇔	
General	^				
Data Management		Remote Metric	\Diagnosis\MetricTemplates	Bro	wse
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Label Decorations					
Log File Viewer					
Logging					
Metric Folder					
Query Result					
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Database Analyzer Charts

Further Chart Functionality

- 1. Displaying/Hiding a Column in the Chart
- 2. Change the Color of a Graph
- 3. <u>Hiding/showing Columns in the Table</u>
- 4. Issuing and Removing Warnings for Values
- 5. Adding/changing/deleting Virtual Columns

- On the column list double click the column which interests you. F.e.:
 - # physical reads for user tasks

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🗁 Diagnosis Local Folder		102240	20.01.2016	00:00:07	29	928	239	-1	-1	-1	-1	171.839	48.632	=	DELTA
🗁 Diagnosis Shared Folde	r	102330	20.01.2016	00:15:35	3	903	248	-1	5	-1	-1	1.272.181	278.277		Number of connected user task
🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899		# communications appl <> use
🗁 Packages		102510	20.01.2016	00:45:42	4	903	256	-1	-1	-1	-1	163.657	27.906		# waits
		102600	20.01.2016	01:00:46	4	903	271	-1	-1	-1	-1	319.313	91.661		# suspends
		102690	20.01.2016	01:15:50	4	903	274	-1	-1	-1	-1	859.318	193.146		# physical reads for user tasks
		102780	20.01.2016	01:30:54	3	903	264	-1	-1	-1	-1	587.805	83.004		# dispatches of user tasks
		102870	20.01.2016	01:45:59	3	902	264	-1	-1	-1	-1	540.112	133.902	>	# task switches of user tasks
		102960	20.01.2016	02:01:02	4	903	250	-1	-1	-1	-1	184.361	52.163		# of symbols resolved (callstack
		103050	20.01.2016	02:16:06	4	904	254	-1	-1	-1	-1	276.181	70.873		# of region accesses
		103140	20.01.2016	02:31:12	4	903	247	-1	-1	-1	-1	146.994	32.118		# of region collisions
World		103230	20.01.2016	02:46:16	4	904	256	134.930	87	8.543	175	172.370	32.091		# of region waits
, wond	DBAN ANALYZER TASK STAT.csv	103320	20.01.2016	03:01:22	4	903	260	115.199	79	11.110	20.718	230.806	61.833		
	DBAN_ANALYZER_TASK_STAT.csv *	103410	20.01.2016	03:16:26	4	903	247	309.942	120	14.216	146.904	513.832	120,796		
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- On the column list double click the column which interests you.
 F.e.: # physical reads for user tasks
- 2. Double click on a second column and see how the scale has changed.

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🗁 Diagnosis Local Folder		102240	20.01.2016	00:00:07	29	928	239	-1	-1	-1	-1	171.839	48.632	=	DELTA
🗁 Diagnosis Shared Folder		102330	20.01.2016	00:15:35	3	903	248	-1	5	-1	-1	1.272.181	278.277		Number of connected user tasks
🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899		# communications appl <> user
🗁 Packages		102510	20.01.2016	00:45:42	4	903	256	-1	-1	-1	-1	163.657	27.906		# waits
		102600	20.01.2016	01:00:46	4	903	271	-1	-1	-1	-1	319.313	91.661		# suspends
		102690	20.01.2016	01:15:50	4	903	274	-1	-1	-1	-1	859.318	193.146		# physical reads for user tasks
		102780	20.01.2016	01:30:54	3	903	264	-1	-1	-1	-1	587.805	83.004	-	# dispatches of user tasks
		102870	20.01.2016			902	264	-1	-1	-1	-1	540.112	133.902		# task switches of user tasks
		102960	20.01.2016			903	250	-1	-1	-1	-1	184.361	52.163		# of symbols resolved (callstack)
		102000	20.01.2016			904	254	-1	-1	-1	-1	276.181	70.873	-	# of region accesses
		103030	20.01.2016			903	247	-1	-1	-1	-1	146.994	32.118	- 1	# of region collisions
		103230	20.01.2016			904	256	134.930	87	8.543	175	172.370	32.091	- 1	# of region waits
> World		103230	20.01.2010			903	260		79	11.110	20.718	230.806	61.833	-	
	DBAN_ANALYZER_TASK_STAT.csv	103320	20.01.2010			903	247	309.942	120	14.216	146.904	513.832	120.796	-	
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 On the column list double click the column which interests you.
 F.e.: # physical reads for user tasks

- 2. Double click on a second column and see how the scale has changed.
- 3. Assign one of the columns to the right scale

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🗁 Diagnosis Local Folder		102240	20.01.2016	00:00:07	29	928	239	-1	-1	-1	-1	171.839	48.632 😑		DELTA
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🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899		# communications appl <> user ta
Packages		102510	20.01.2016	00:45:42	4	903	256	-1	-1	-1	-1	163.657	27.906		# waits
		102600	20.01.2016	01:00:46	4	903	271	-1	-1	-1	-1	319.313	91.661		# suspends
		102690	20.01.2016	01:15:50	4	903	274	-1	-1	-1	-1	859.318	193.146		# physical reads for user tasks
		102780	20.01.2016	01:30:54	3	903	264	-1	-1	-1	-1	587.805	83.004		# dispatches of user tasks
		102870	20.01.2016	01:45:59	3	902	264	-1	-1	-1	-1	540.112	133.902	Ľ	# task switches of user tasks
		102960	20.01.2016	02:01:02	4	903	250	-1	-1	-1	-1	184.361	52.163		# of symbols resolved (callstack)
		103050	20.01.2016	02:16:06	4	904	254	-1	-1	-1	-1	276.181	70.873		# of region accesses
		103140	20.01.2016	02:31:12	4	903	247	-1	-1	-1	-1	146.004	22.110		# of region collisions
World		103230	20.01.2016	02:46:16	4	904	256	134.930	87	8.543	175	Hide	in table		
	BAN ANALYZER TASK STAT.csv	103320	20.01.2016	03:01:22	4	903	260	115.199	79	11.110	20.718				
	DBAN_BACKUP.csv	103410	20.01.2016	03:16:26	4	903	247	309.942	120	14.216	146.904	Hide	in diagrar	m	
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On the column list double click the column which interests you. F.e.: # physical reads for user tasks

- Double click on a second 2 column and see how the scale has changed.
- Assign one of the columns 3. to the right scale
- 4. See both graphs now with their own scale

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Diagnosis Shared Fold		102330	20.01.2016	00:15:35	3	903	248	-1	5	-1	-1	1.272.181	278.277		Number of connected user tasks
🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899		# communications appl <> user t
🗁 Packages		102510	20.01.2016			903	256	-1	-1	-1	-1	163.657	27.906		# waits
-		102600	20.01.2016			903	271	-1	-1	-1	-1	319.313	91.661		# suspends
		102690	20.01.2016			903	274	-1	-1	-1	-1	859.318	193.146		# physical reads for user tasks
		102780	20.01.2016			903	264	-1	-1	-1	-1	587.805	83.004	-	# dispatches of user tasks
		102870	20.01.2016			902	264	-1	-1	-1	-1	540.112	133.902		# task switches of user tasks
		102960	20.01.2016			903	250	-1	-1	-1	-1	184.361	52.163		# of symbols resolved (callstack)
		103050	20.01.2016			904	254	-1	-1	-1	-1	276.181	70.873		# of region accesses
		103140	20.01.2016			903	247	-1	-1	-1	-1	146.994	32.118		# of region collisions
World		103230	20.01.2016			904	256	134.930	87	8.543	175	172.370	32.091		# of region waits
wond		103320	20.01.2016			903	260	115.199	79	11.110	20.718	230.806	61.833		
	DBAN_ANALYZER_TASK_STAT.csv	103410	20.01.2016			903	247	309.942	120	14.216	146.904	513.832	120.796		
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Database Analyzer Charts Change the Color of the Graph

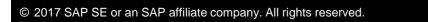
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🗁 Diagnosis Shared Folder		102330	20.01.2016	00:15:35	3	903	248	-1	5	-1	-1	1.272.181	278.277 0	D
🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899 0) # communications appl <> user
🗁 Packages		102510	20.01.2016	00:45:42	4	903	256	-1	-1	-1	-1	163.657	27.906 0	
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		102690	20.01.2016	01:15:50	4	903	274	-1	-1	-1	-1	859.318	193.146 0	
		102780	20.01.2016	01:30:54	3	903	264	-1	-1	-1	-1	587.805	83.004 0	
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	DBAN_COMMUNICATION.csv	103050	20.01.2016	02:16:06	4	904	254	-1	-1	-1	-1	276.181	70.873 0) > # of region accesses
	DBAN_CPU_UTILIZATION.csv	103140	20.01.2016	02:31:12	4	903	247	-1	-1	-1	-1	146,994	32.118 0	# of region collisions
	DBAN_FILLING.csv	103230	20.01.2016	02:46:16	4	904	256	134.930	87	8.543	175	172.370	32.091 0	# of region waits
	DBAN_GC.csv	103320	20.01.2016			903	260	115.199	79	11.110	20.718	23		
	DBAN_IO_PREFETCH.csv	103410	20.01.2016		4	903	247	309.942	120	14.216	146.904		Hide in tabl	le
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	DBAN_IOTHREADS.csv	103590	20.01.2010	03:46:35		902	251	-1	20	-1	-1		Hide in diag	aram
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Database Analyzer Charts Change the Color of the Graph

- 1. On the respective column choose the context function Change color
- 2. Choose a color from the color menu

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	DBAN_CPU_UTILIZATION.csv		103140	20.01.2016	02:31:12	4	903	247	-1	-1	-1					
	DBAN_FILLING.csv		103230	20.01.2016	02:46:16	4	904	256	134.930	87	8.543				_	
	DBAN_GC.csv		103320	20.01.2016	03:01:22	4	903	260	115.199	79	11.110					
	DBAN_IO_PREFETCH.csv		103410	20.01.2016	03:16:26	4	903	247	309.942	120	14.216					
	DBAN_IO.csv		103500	20.01.2016	03:31:30	4	903	245	202.184	68	6.327					
	DBAN_IOTHREADS.csv		103590	20.01.2016	03:46:35	3	902	251	-1	20	-1					
	DBAN_JOIN_STAT.csv		103680	20.01.2016	04:01:37	4	903	260	376.765	43	5.413					
	DBAN_LOAD.csv		103770	20.01.2016	04:16:41	4	903	270	150.629	-1	-1					
	DBAN_LOCKS.csv		103860	20.01.2016	04:31:45	3	903	279	-1	-1	-1					
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Database Analyzer Charts Change the Color of the Graph

- 1. On the respective column choose the context function Change color
- 2. Choose a color from the color menu
- 3. The graph is now displayed with the chosen color

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🗁 Diagnosis Local Folder		102240	20.01.2016	00:00:07	29	928	239	-1	-1	-1	-1	171.839	48.632	0	DELTA
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🗁 Local User Folder		102420	20.01.2016	00:30:40	3	902	248	-1	-1	-1	-1	377.292	45.899	0	# communications appl <> user ta
🗁 Packages		102510	20.01.2016	00:45:42	4	903	256	-1	-1	-1	-1	163.657	27.906	0	# waits
		102600	20.01.2016	01:00:46	4	903	271	-1	-1	-1	-1	319.313	91.661	0	# suspends
		102690	20.01.2016	01:15:50	4	903	274	-1	-1	-1	-1	859.318	193.146	0	# physical reads for user tasks
		102780	20.01.2016	01:30:54	3	903	264	-1	-1	-1	-1	587.805	83.004	0	# dispatches of user tasks
		102870	20.01.2016	01:45:59	3	902	264	-1	-1	-1	-1	540.112	133.902	0	# task switches of user tasks
🗁 World		102960	20.01.2016	02:01:02		903	250	-1	-1	-1	-1	184.361	52.163	0	# of symbols resolved (callstack)
	DBAN_COMMUNICATION.csv	103050	20.01.2016	02:16:06		904	254	-1	-1	-1	-1	276.181	70.873	0	> # of region accesses
	DBAN_CPU_UTILIZATION.csv	103140	20.01.2016	02:31:12		903	247	-1	-1	-1	-1	146.994	32.118	0	# of region collisions
	DBAN_FILLING.csv	103230	20.01.2016	02:46:16		904	256	134.930	87	8.543	175	172.370	32.091	0	# of region waits
	DBAN_GC.csv	103230	20.01.2016			903	260	115.199	79	11.110	20.718	230.806	61.833	0	-
	DBAN_IO_PREFETCH.csv	103320	20.01.2016	03:16:26		903	247	309.942	120	14.216	146.904	513.832	120.796	0	
	DBAN_IO.csv	103410	20.01.2010	03:31:30		903	247	202.184	68	6.327	4.487	233.570	54.791	0	
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	DBAN_JOIN_STAT.csv	103590	20.01.2016	03:46:35		902	251	-1	20	-1	-1	258.806	51.717		
	DBAN_LOAD.csv	103680	20.01.2016	04:01:37		903	260	376.765	43	5.413	277	397.226	99.549	0	
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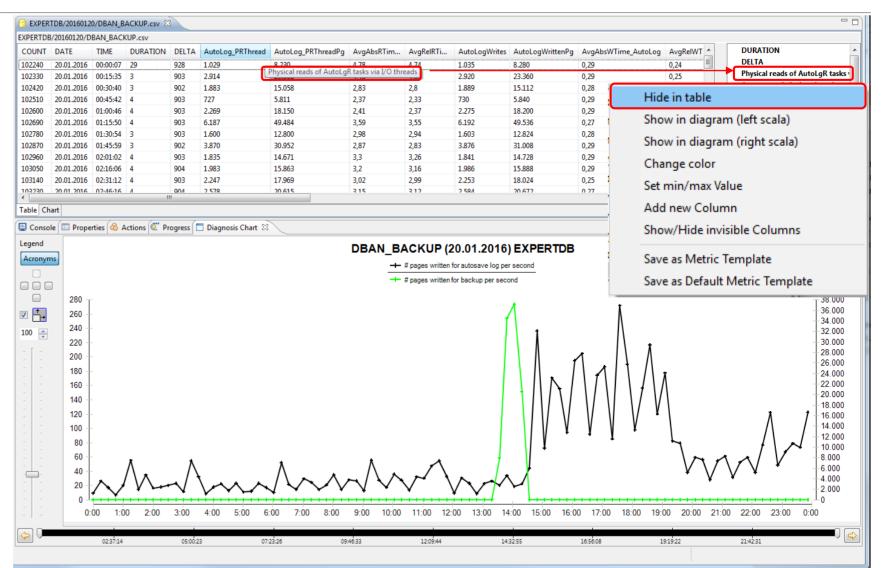
<u>→Back</u>

 Which table column is this? Move the mouse over the column. See beneath the header the long name of the column in the tool tip.

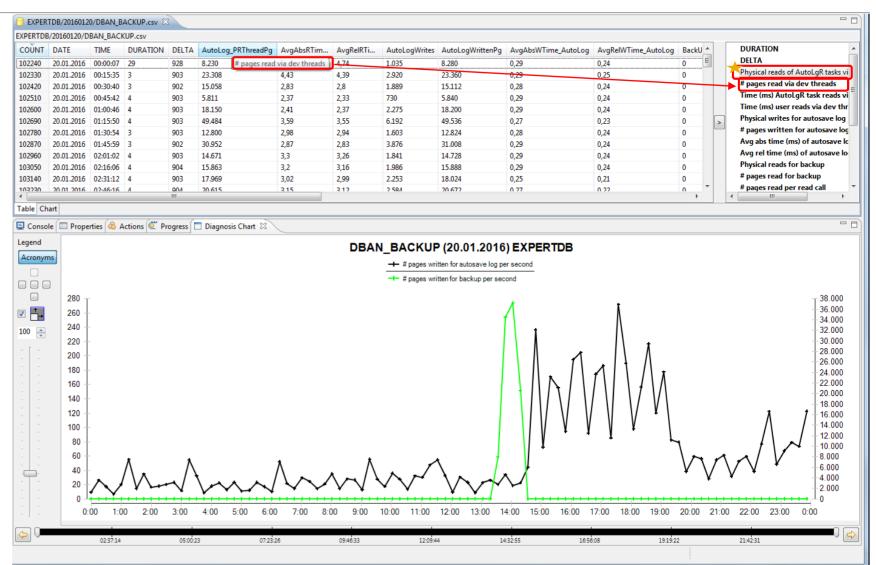
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2870 2	20.01.2016	01:45:59	3	902	3.870	30.952	2,87	2,83	3.876	31.008	0,29	0,24		Avg abs time (ms) of autosave lc
2960 2	20.01.2016	02:01:02	4	903	1.835	14.671	3,3	3,26	1.841	14.728	0,29	0,24		Avg rel time (ms) of autosave lo
3050 2	20.01.2016	02:16:06	4	904	1.983	15.863	3,2	3,16	1.986	15.888	0,29	0,24		Physical reads for backup
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- 1. Which table column is this? Move the mouse over the column. See beneath the header the long name of the column in the tool tip.
- 2. Exclude first column from the table via context menu function "Hide in table"

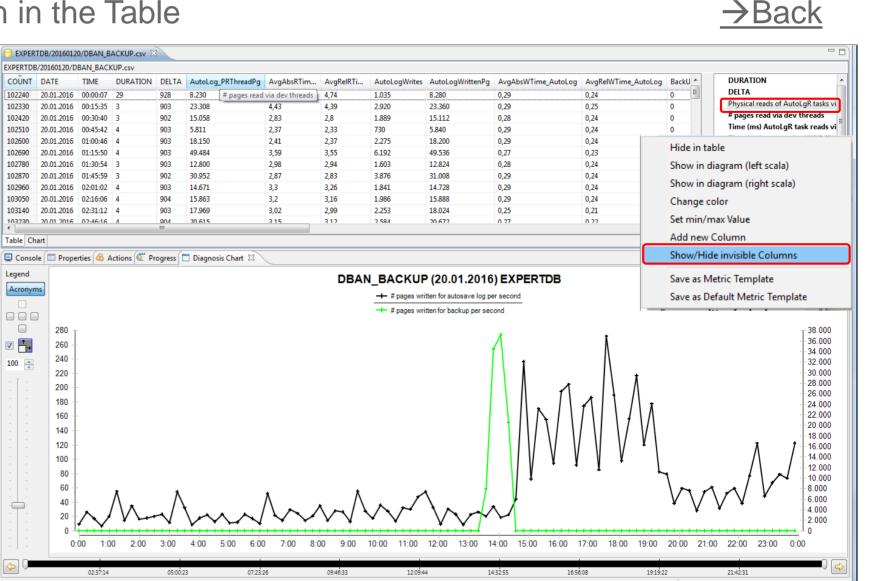


- Which table column is this? Move the mouse over the column. See beneath the header the long name of the column in the tool tip.
- 2. Exclude first column from the table via context menu function "Hide in table"
- Now you see in the table the former second column as first column

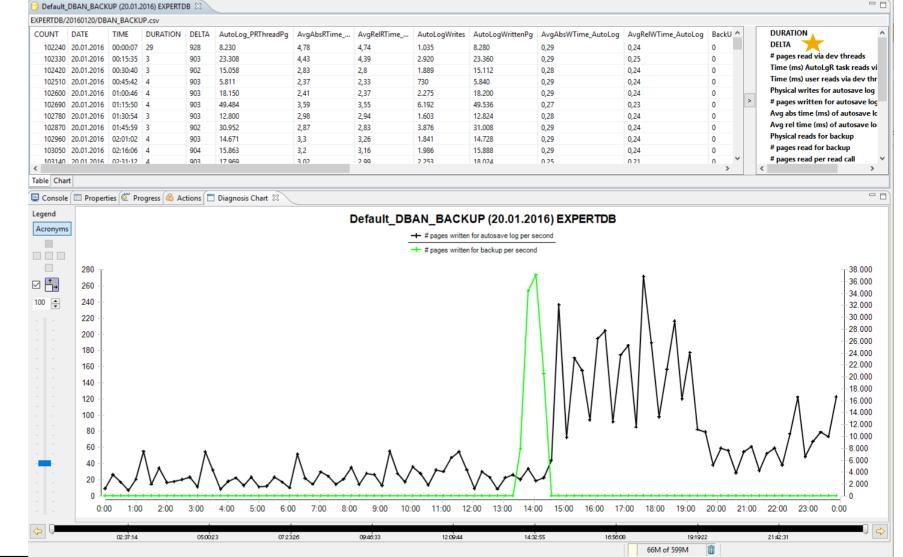


→Back

- Which table column is this? Move the mouse over the column. See beneath the header the long name of the column in the tool tip.
- 2. Exclude first column from the table via context menu function "Hide in table"
- Now you see in the table the former second column as first column
- You can now exclude the not visible table column from the column list



 The column list does not show the excluded column any more. See *

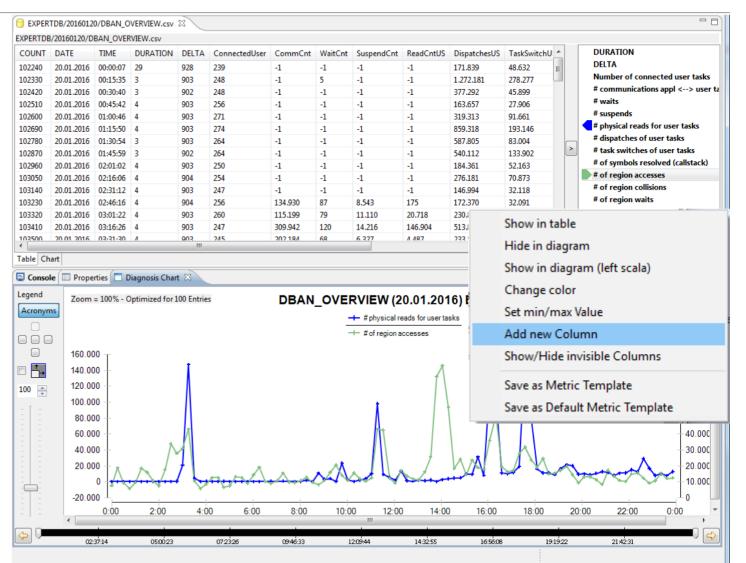


→Back

Adding, changing and deleting virtual columns

→ Back

- You want to know the number of region accesses per second? Therefore you need a computed column.
- 2. From the context menu choose: Add new Column



Adding, changing and deleting virtual columns

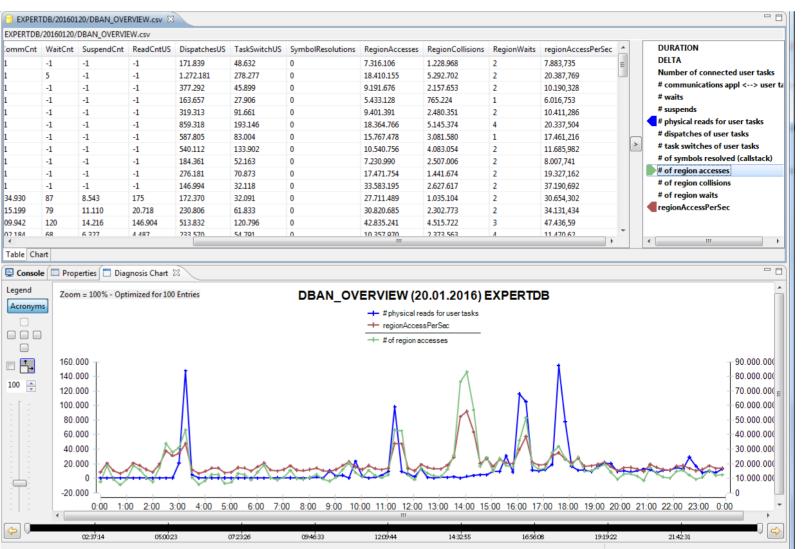
- You want to know the number of region accesses per second? Therefore you need a computed column.
- From the context menu choose. 2 Add new Column
- 3. Enter a name and acronym for the new column. Specify a formula - use Ctrl/space. Division by DELTA means: per second.

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Adding, changing and deleting virtual columns

- You want to know the number of region accesses per second? Therefore you need a computed column.
- 2. From the context menu choose: Add new Column
- Enter a name and acronym for the new column. Specify a formula - use Ctrl/space. Division by DELTA means: per second.
- 4. Choose Edit Column or Delete Column if you want to change or delete the definition of the column.

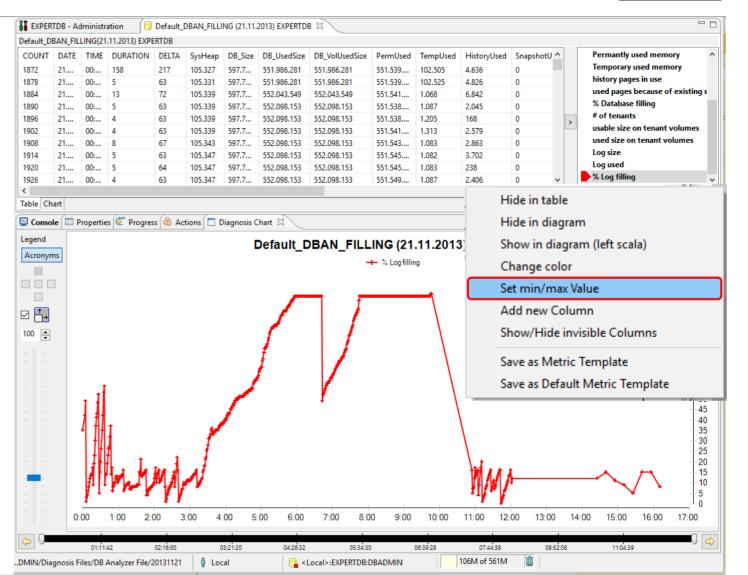


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Bac

Database Analyzer Charts Issuing and Removing Warnings for Values

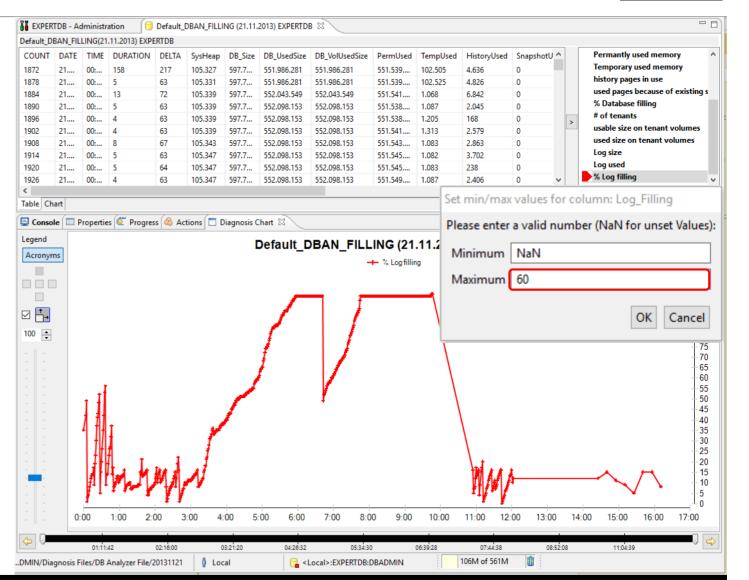
- 1. You want to see warnings if values are beneath or above a threshold.
- From the context menu choose: Set min/max Value to specify a min or max threshold value for the chosen column



→Bac

Database Analyzer Charts Issuing and Removing Warnings for Values

- 1. You want to see warnings if values are beneath or above a threshold.
- From the context menu choose: Set min/max Value to specify a min or max threshold value for the chosen column
- 3. Here only a maximum value is specified. The minimum value stays undefined (**NaN** value means "not a number").
- 4. Save the metric template under a specific name ("LogFilling-WithThreshold"). After applying it to this date folder, the resp. values will be emphasized.

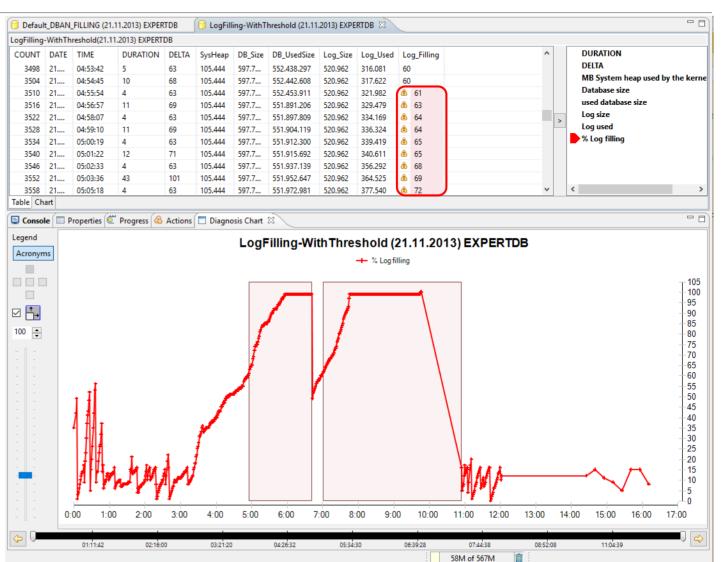


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Database Analyzer Charts Issuing and Removing Warnings for Values

Having saved the metric template under a specific name (f.e.:"LogFilling-WithThreshold"):

After applying **LogFilling-WithThreshold** again to this date folder, the respective values will be marked in the chart and in the table.



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Two or More Metrics in one Chart

1. What do different metrics of the same date have in common?

Merge different csv files in one chart

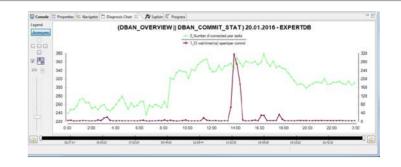
2. How the metric changes from one date to the other?

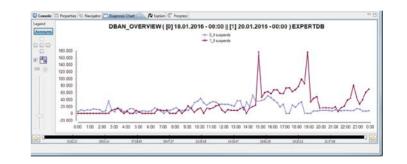
Compare the metrics of two different dates in one chart

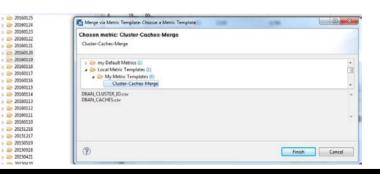
3. How to display a metric over more the one day? Concatenate a succeeding or preceding day with the same metric

Concatenate charts over more then one day

→ Back to Agenda







Merging Two or More Metrics in one Chart

Merge two different csv files in one chart

- 1. To combine graphs of two different charts in one single chart, open the two different csv files.
- 2. Via context function Merge with choose the 2nd chart you want to merge with.

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🗁 Packages		54360	19.05.2015	08:53:35	4	903	581.6	54.71	2.802	327.863	534.920.897	9.568.715	2.795.79	Virtual writes
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Merging Two or More Metrics in one Chart

Merge two different csv files in one chart

- To combine graphs of 1. two different charts in one single chart, open the two different csv files
- Via context function 2 Merge with choose the 2nd chart you want to merge with.
- Now you can see all chosen 3. graphs in one merged chart. Switch off the ones which are not of interest.

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Compare Two Dates in One Chart

Compare Metrics of Different Dates or Databases

- To compare metrics of 1. different dates: open the two csv files.
- In the table choose context 2 function **Compare with** and select the 2nd chart you want to compare with

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Eocal User Folder	42300	13.01.2016		4	903	337	271.075	32	4.852	87	293.609	41.884		# communications appl <> user
🗁 Packages	42390	13.01.2016		4	903	339	228.257	41	6.293	123	252,850	55,446		# waits
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DBAN_CACHES.csv	43200	13.01.2016	03:06:2	🔊 🛛 Refr	esh							80.784		
BAN_CATALOG_CACHE.csv	43290	13.01.2016	03:21:2									129.452		
DBAN_CLUSTER_IO.csv	43380	13.01.2016	03:36:34	6	905	334	220.205	33	3.184	319	268.762	35.363		
DBAN_COMMIT_STAT.csv	12/170	12 01 2016	02.51.40	5	004	2.40	107 700	A.A.	7 402	70	220 544	10 004 ×		
DBAN_COMMUNICATION.csv	<											>		٤
DBAN_CPU_UTILIZATION.csv	Table Cha	Int												
DBAN_FILLING.csv	📮 Consol	e 🔲 Prope	rties 🙋 P	roaress 🙈 /	Actions	🗖 Diagnosis Char	X							- E
DBAN_GC.csv														
DBAN_IO_PREFETCH.csv	Legend	Zoom	= 100% - 0	ptimized for	100 Entrie	es	DBAN	OVE	RVIEW (1	3.01.201	16) EXPEF	RTDB		
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DBAN_LOGGING.csv		60.00	0						Λ					
DBAN_OVERVIEW.csv							• A	1	IN					
DBAN_REGIONS.csv	100 🌲	50.00	10 +				NY 1	¥*		*				
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BBAN_RW_LOCKS.csv DBAN_SAVEPOINTS.csv DBAN_SHARED_SQL.csv DBAN_SHOW_ACTIVE_TASKS_SORTED.prt DBAN_SHOW_ACTIVE_TASKS_prt DBAN_SPINLOCKS.csv DBAN_STRATEGY_INDEX.csv		10.00		-04 2:04	3:04	4:04 5:04 6:04	4 7.04 8.1	04 9:04	10:04 11:04	¥	↓ ↓ 04 14:04 15:04	¥ ¥ 16:04 17	04	18:04 19:04 20:04 21:04 22:04
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Compare Two Dates in One Chart

Compare Metrics of Different Dates or Databases

- To compare metrics of 1. different dates: open the two csv files.
- In the table choose context 2 function **Compare with** and select the 2nd chart you want to compare with
- Click ok, if you wish to 3. compare the graphs starting at the same point in time
- Enter different starting point if 4. you want to compare different time intervals

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🌯 sql 🕶 🏭 🕶 🗇 🖒 👰 🚍 😫	EXPERTDB/2)160113/DE	BAN_OVER	VIEW.csv			1						
- My Repository	COUNT D	ATE	TIME	DURATION	DELTA	ConnectedUser	CommCnt	WaitCnt	SuspendCnt	ReadCntUS	DispatchesUS	TaskSwi ^	DURATION
🗁 Diagnosis Local Folder	42120 1	3.01.2016	00:04:57	28	928	322	514.123	29	7.623	1.088	548.228	199.656	DELTA
🗁 Diagnosis Shared Folder	42210 1	3.01.2016	00:20:27	3	903	348	-1	35	-1	-1	855.344	227.312	Number of connected user tasks
🗁 Local User Folder	42300 1	3.01.2016	00:35:32	4	903	337	271.075	32	4.852	87	293.609	41.884	# communications appl <> user t
🗁 Packages	42390 1	3.01.2016	00:50:37	4	903	339	228.257	41	6.293	123	252.850	55.446	# waits
> World	42480 1	3.01.2016	01:05:41	4	904	361	527.851	65	12.995	3.595	580.617	140.305	# suspends
	42570 1	3.01.2016	01:20:46	4	904	359	486.872	44	6.862	163	517.761	121.510	# physical reads for user tasks
DBA Action Log Directory	42660 1	3.01.2016	01:35:52	712		0100		100		211119		48.775	# dispatches of user tasks
B Analyzer File	42750 1	3.01.2016	01:50:55								×	149.923	# task switches of user tasks
20160517 20160113	42840 1	3.01.2016	02:06:00	-								63.353	# of symbols resolved (callstack)
DBAN_ANALYZER_TASK_STAT.csv	42930 1	3.01.2016	02:21:05		rae Ti	mestamps						115.098	# of region accesses
DBAN_ANALYZER_TASK_STAT.csv	43020 1	3.01.2016	02:36:11		ige ii	mestamps						56.672	# of region collisions
BBAN CACHE OCCUPANCY.csv	43110 1	3.01.2016	02:51:17									91.395	# of region waits
DBAN_CACHES.csv	43200 1	3.01.2016	03:06:21									80.784	
BBAN CATALOG CACHE.csv	43290 1	3.01.2016	03:21:28	1								129.452	
DBAN_CLUSTER_IO.csv	43380 1	3.01.2016	03:36:34			ne merge s						35.363	
BBAN_COMMIT_STAT.csv		0 01 2016	02.51.40	DBA	N OV	ERVIEW (10	0.01.201	6) EXPE	RTDB			10 004	
DBAN_COMMUNICATION.csv	<			- I	-			- C				>	< >
BBAN_CPU_UTILIZATION.csv	Table Chart			00:00	0:12	•							
DBAN_FILLING.csv	📮 Console	Proper	ties 🎯 P			•							
DBAN_GC.csv					o defi	ne merge s	tartooir	at of					
DBAN_IO_PREFETCH.csv	Legend	Zoom =	= 100% - C									TDB	~
DBAN_IO.csv	Acronyms			DBA	N_OV	ERVIEW (13	3.01.201	6) EXPE	RIDB			1	
DBAN_IOTHREADS.csv													
DBAN_JOIN_STAT.csv		80.000		00:04	4:57 -	÷ I							
DBAN_LOAD.csv					_	-							
DBAN_LOCKS.csv		70.000) +									1	
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DBAN_OVERVIEW.csv	100 🌩	50.000		ł									
DBAN_REGIONS.csv DBAN_RUNNING_COMMANDS.prt	•	40.000											
BBAN_RW_LOCKS.csv				Name	of ne	w Combination	ation						+
DBAN_SAVEPOINTS.csv		30.000	1									1 1	Λ
DBAN SHARED SQL.csv		20.000) +	DBAI	N OVE	RVIEW ([0	10.01.2	2016	1] 13.01.	2016) E)	KPERTDB		
DBAN_SHOW_ACTIVE_TASKS_SORTED.prt		10.000) <u>↓</u>		-							' N / N '	\. */\ X
DBAN_SHOW_ACTIVE_TASKS.prt								ок				IV V	WV h man
DBAN_SPINLOCKS.csv			0 † ¥					UK				1 1	* * * · · · ·
DBAN_STRATEGY_INDEX.csv		-10.000) ⊥										
DBAN_STRATEGY_PRIMKEY.csv			0:04 1	:04 2:04	3:04 4:	04 5:04 6:04	1 7:04 8:	04 9:04	10:04 11:04	12:04 13:0	04 14:04 15:0	4 16:04 17:	04 18:04 19:04 20:04 21:04 22:04 >
DBAN_STRATEGY_SCANS.csv		<											>
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Compare Two Dates in One Chart

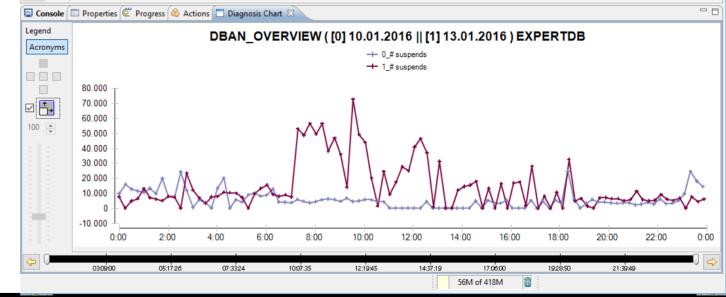
-> Back

Compare Metrics of Different Dates or Databases

5. Now you can see all chosen graphs in one chart.

	OVERVIEW (EXPERTDB	-	OVERVIEW (13.01.20	16) EXPERTDB	📔 DBAN	N_OVERVIEW ([0]	10.01.2016 [1]	13.01.2016)	6) EXPERTOB
COUNT	DATE	1			1	0.0	0.14/-14/0-14	0. Current Cost	0. Decel Certific	0.0	
COUNT		TIME	0_DURATION	0_DELTA	0_ConnectedUser	0_CommCnt	-		0_ReadCntUS	0_Dispate /	
0	10.01.2016	00:00:12	31	930	311	202.013	75	9.574	1.408	236.125	0_DELTA
1	10.01.2016	00:15:42									0_Number of connected user ta:
2	10.01.2016	00:15:44	3	902	328	1.465.507	91	15.895	22.517	1.535.166	5 0_# communications appl <> u
3	10.01.2016	00:30:47	3	903	338	303.278	70	12.626	379	339.465	0_# waits
4	10.01.2016	00:45:52	3	902	326	240.039	61	11.320	290	271.560	0_# suspends
5	10.01.2016	01:00:55	8	907	330	290.844	50	10.509	2.467	329.616	0_# physical reads for user tasks
6	10.01.2016	01:00:56									0_# dispatches of user tasks
7	10.01.2016	01:16:01									0_# task switches of user tasks
8	10.01.2016	01:16:03	3	903	343	448.247	47	13.054	2.324	492.902	0_# of symbols resolved (callstac
9	10.01.2016	01:31:07									0_# of region accesses
10	10.01.2016	01:31:08	3	902	321	237.655	45	9.681	202	268.578	0_# of region collisions
11	10.01.2016	01:46:10									0_# of region waits
12	10.01.2016	01:46:11	3	903	333	412.981	59	19.893	420	457.271	1_DURATION
13	10.01.2016	02:01:15									1_DELTA
14	10.01.2016	02:01:16	4	903	325	174.633	37	7.872	138	208.380	1_Number of connected user ta:
15	10.01.2016			004	210	264 000	07	7.065	100	207 205	✓ 1 # communications appl <> u
C										>	

Table Chart



Concatenate several Dates in One Chart

Concatenate same Metrics over several succeeding Dates

- To concatenate metrics of succeeding dates: open the same metric in up to four succeeding date folder.
- 2. The context menu offers according to the displayed charts the potentially possible operations.
- 3. After concatenation of the date 10.02.2016 and 11.02.2016 it is possible to continue the concatenation until four dates are concatenated.

				ERTDB		Suspenus (10.	02.2010J EA	(PERTDB 🔀 🔪	U Number	OfSuspends(11.0	2.2016) EXPERTD	B 📋 NumberOf	Suspends (1		
umberO	fSuspen	ds(10.02	.2016) EXPERT	DB											
OUNT	DATE	TIME	DURATION	DELTA	ConnectedUser	CommCnt	WaitCnt	SuspendCnt	ReadCntUS	DispatchesUS	TaskSwitchUS	SymbolResolutions	RegionA ^		DURATION
44270	10	00:	9	908	162	58.319	1	8.295	0	405.776	13.149	0	7.994.08		DELTA
44360	10	00:	3	902	198	416.833	1	17.648	0	915.232	60.834	0	7.878.24		Number of connected user tasks
44450	10	00:	2	901	198	261.003	-1	4.162	2	596.707	35.914	0	7.379.28		# communications appl <> user
44540	10	00:	2	901	177	92.981	-1	360	0	491.150	23.476	0	5.489.92		_# waits
44630	10	01:	2		100	406.000	-	44.000	-	528.113	32.248	0	7.144.38		# suspends
14720	10	01:	2	Compare	with 'NumberOfS	uspends(09.02	.2016) EXPI	ERTDB'		8.579.605	246.747	0	8.709.65		# physical reads for user tasks
44810	10	01:	2	Compare	with 'NumberOfS	uspends(11.02	.2016) EXPI	ERTDB'		1.835.084	206.032	0	24.009.8		# dispatches of user tasks
44900	10	01:	2	Compare	with 'NumberOfS	uspends (12.02	2.2016) EXP	ERTDB'		2.982.085	325.317	0	22.927.8		# task switches of user tasks
44990	10	02:	3	Concatena	ate with 'Number(OfSuspends(09	9.02.2016) E	EXPERTOB'		1.430.947	121.615	0	18.126.2		# of symbols resolved (callstack)
45080	10	02:	3	Concatena	ate with 'Number	OfSuspends(11	1.02.2016) E	XPERTDB'		5.581.593	395.539	0	15.580.5		# of region accesses
45170	10	02:	2		etric Template					3.371.189	422.754	0	21.101.3		# of region collisions
45260	10	02:	2		fault Metric Temp	lata				2.696.684	491.014	0	20.827.2' 🗸		# of region waits
				Refresh	aduit Metric Temp	Jace							>		< 2
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gend cronyn	22 20 18 10 14 12 10 8 6	00.000 30.000 50.000 40.000 20.000 90.000 30.000			Ň	x 1	Nui	mberOfS	•	•	016) EXPE	RTDB			Â
gend cronyn	22 20 18 14 12 10 8 6 6	00.000 30.000 40.000 20.000 30.000 30.000 40.000 40.000 20.000		~~	A	L.A.	Nur	mberOfS	•	•	016) EXPE	RTDB			Л
gend cronyn	22 20 18 14 12 10 8 6 4 2	00.000 30.000 50.000 40.000 20.000 30.000 50.000 40.000 20.000 0 0 0 0 0 0 0 0 0 0 0 0		~~	A	L.A	Nu	mberOfS	•	•	016) EXPE	RTDB			Л
gend cronyn	22 20 18 14 12 10 8 6 4 2	00.000 30.000 50.000 20.000 30.000 30.000 50.000 20.000 0 20.000 0 20.000		~~~	A		<u> </u>		+	# suspends	Λ^		· · · · ·		
gend cronyn	22 20 18 14 12 10 8 6 4 2	00.000 30.000 50.000 20.000 30.000 30.000 50.000 20.000 0 20.000 0 20.000		2:00	3:00 4:00	5:00 6:00	<u> </u>	mberOfS	+	# suspends	Λ^	RTDB	18:00 19	00	
gend Acronyn	22 20 18 14 12 10 8 6 4 2	00.000 30.000 50.000 20.000 30.000 30.000 50.000 20.000 0 20.000 0 20.000		2:00	3:00 4:00	5:00 6:00	<u> </u>		+	# suspends	Λ^		18:00 19	00	

Concatenate several Dates in One Chart

Concatenate same Metrics over several succeeding Dates

4. See here the second concatenation step

and on the next slide the result of three stepwise concatenations.

umberOf	erorsuspend	s(09.02.201	6) EX 🛛 🔀	Number	OfSuspends (10.02	.2016) E	🔞 Numl	berOfSuspends	(11.02.2016) E	K 🛛 🔂 Numł	perOfSuspends (12.02.2016) E 🛛 📔	Numl	berOf	fSuspends (10.02.2016 - 1 🛛 🖓 🖵 🛙
	fSuspends (10	0.02.2016 -	11.02.2016) E	XPERTDB											
COUNT	DATE	TIME	DURATION	DELTA	ConnectedUser	CommCnt	WaitCnt	SuspendCnt	ReadCntUS	DispatchesUS	TaskSwitchUS	SymbolResolutions	F ^		DURATION
44270	10.02.2016	00:00:02	9	908	162	58.319	1	8.295	0	405.776	13.149	0	7		DELTA
44360	10.02.2016	00:15:11	3	902	198	416.833	1	17.648	0	915.232	60.834	0	7		Number of connected user tasks
44450	10.02.2016	00:30:14	2	901	198	261.003	-1	4.162	2	596.707	35.914	0	7		# communications appl <> user
44540	10.02.2016	00:45:17	2	901	177	92.981	-1	360	0	491.150	23.476	0	5		# waits
44630	10.02.2016	01:00:19	2	901	169	106.998	0	11.002	0	528.113	32.248	0	7		# suspends
144720	10.02.2016	01:15:22	2	001	106	12.005	^	2 525	1	8.579.605	246.747	0	8	>	# physical reads for user tasks
44810	10.02.2016	01:30:25	2	Compare	with 'NumberOfS	uspends(09.0	2.2016) EXF	PERTDB'		1.835.084	206.032	0	2	~	# dispatches of user tasks
44900	10.02.2016	01:45:28	2	Compare	with 'NumberOfS	uspends (12.0	2.2016) EX	PERTDB'		2.982.085	325.317	0	2		# task switches of user tasks
44990	10.02.2016	02:00:31	3	Concater	ate with 'Number	OfSuspends(0	9.02.2016)	EXPERTDB'		1.430.947	121.615	0	1		# of symbols resolved (callstack)
45080	10.02.2016	02:15:36	_		ate with 'Number	1 1				5.581.593	395.539	0	1		# of region accesses
45170	10.02.2016	02:30:40	- L		letric Template					3.371.189	422.754	0	2		# of region collisions
45260	10.02.2016	02:45:42	2							2.696.684	491.014	0	2 🗸		# of region waits
				Save as D	efault Metric Temp	olate							>		< 2
cronym	ns					Number	olous	spenus (1			.2016) EXF	CRIDD			
	240.00														1
	200.00 180.00 160.00 140.00 120.00 80.00 60.00 40.00 20.00	10 10	M	٨٨.			M			лАл	M^		~~		
	180.00 160.00 140.00 120.00 100.00 80.00 60.00 40.00 20.00	10 10	2:00 4:00	6:00	8:00 10:00	12:00 14:0	0 16:00	18:00 20:00	0 22:00 0	00 2:00 4		3:00 10:00 12:00	••••••/ 0 14:0		

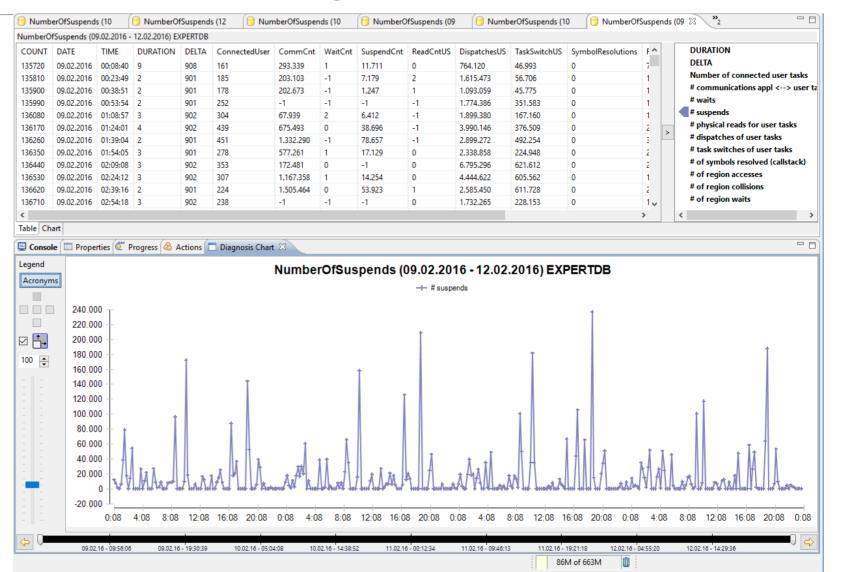
-> Bacl

Concatenate several Dates in One Chart

Concatenate same Metrics over several succeeding Dates

5. This is the result of the stepwise concatenation

09.02.2016 until 2.02.2016



Display/Compare/Concatenate via Metric Template

1. How to select and display different dates with a specific Metric Template?

Display via Metric Template

2. How to select and **compare** different dates in one chart directly from the explorer?

Compare via Metric Template

3. How to select and concatenate different dates in one chart directly from the explorer?

Concatenate via Metric Template







→ Back to Agenda

Displaying via Metric Template One or More Dates at once Display directly via Metric Template

Explore

Go Into

Copy

Paste

Refresh

Import Landscape

Contract Delete

do.

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> 🗁 20160210

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144810

10.... 01:... 2

Merge via Metric Template: Choose a Metric Template

Chosen metric: NumberOfSuspends

Number Of Suspends

To display metrics of different 1. dates directly from the explorer:

select two or more date folders and choose the context function **Display via Metric Template**

 Then select the Metric Template of interest. As result for every chosen date the metric will be displayed 	 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	bergen my Default Metrics (1) bergen my Default Metric Templates (1) bergen My Metric Templates (9) Cluster-Caches-Merge NumberOfSuspends DBAN_OVERVIEW.csv	E E E I E I I E I I I I I I I I I I I I
NumberOfSuspends(09.02.2016) EXPERTDB	<u> </u>	berOfSuspends(11.02.2016) EXPERTDB	🔞 NumberOfSuspends (12.02.2016) EXPERTDB
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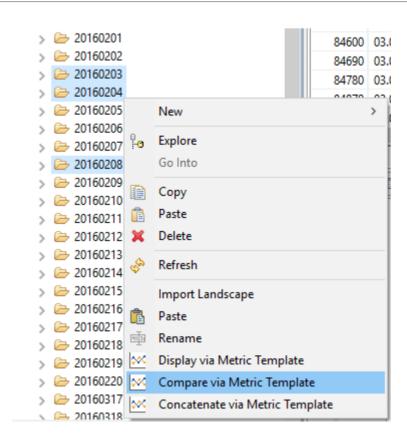
2

Comparing Two or more Dates in one Chart

Compare directly via Metric Template

1. To compare metrics of different dates directly from the explorer:

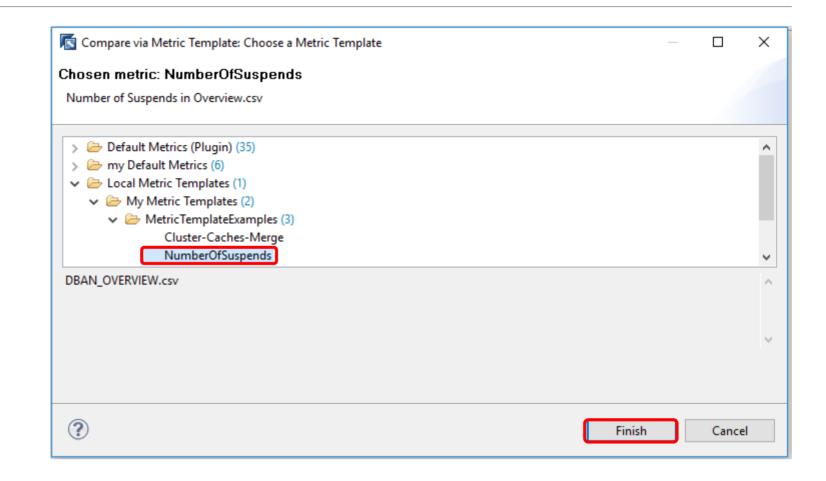
select two or more date folders and choose the context function **Compare via Metric Template**



Comparing Two or more Dates in one Chart

Compare via Metric Template

- To compare metrics of different dates directly from the explorer: select two or more date folders and choose the context function Compare via Metric Template
- In the dialog box select the metric you are interested in.
 F.e. NumberOfSuspends is the name of a Metric Template dealing with DBAN_OVERVIEW.csv
- 3. Click finish to get the graphs according to the chosen Metric Template displayed in one chart for comparison. In this example the chosen Metric Template deals with DBAN_OVERVIEW.csv.



Comparing Two or more Dates in one Chart

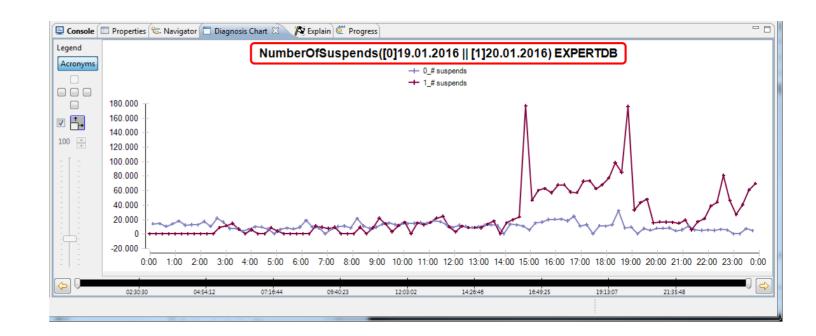
Compare via Metric Template



1. To compare metrics of different dates:

select two or more date folders and choose the context function **Compare via Metric Template**

- In the dialog box select the metric you are interested in.
 F.e. NumberOfSuspends is the name of a Metric Template dealing with DBAN_OVERVIEW.csv
- 3. Click finish to combine the DBAN_OVERVIEW.csv files from the two date folders according to the Metric Template
- As result you can see the two graphs in one chart.



Concatenating via Metric Template up to Four Dates at once Concatenate via Metric Template

1. To concatenate metrics of different dates directly from the explorer:

select two or more date folders (up to four) and choose the context function

Concatenate via Metric Template

- 2. Then select the Metric Template of interest.
- 3. As result all the metric will be displayed for the whole timespan determined by the chosen date folders.

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> 🦾 20160	0519 🔒	Explore	102500		✓ ➢ My Metric Templates (2)
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Defining/Changing and Applying Metric Templates

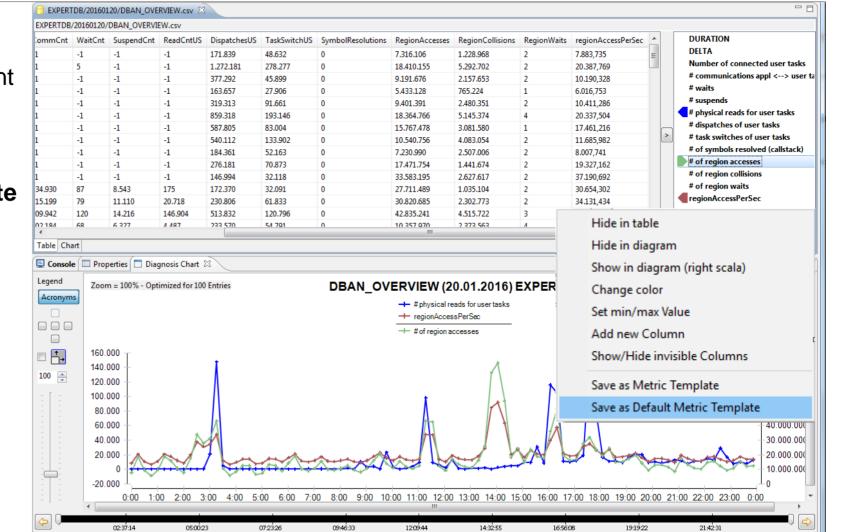


- 1. Define/Change Default Metric Template
 - Predefined Default Metric Templates
 - <u>Personal Default Metric Templates</u>
 - Reset Default Metric Templates
- 2. Define/Change Named Metric Template
 - Local Metric Templates
 - <u>Remote Metric Templates</u>
- 3. Display/Compare/Concatenate via Metric Template

Save as Default Metric Template

 You have changed the presentation of the chart and want to keep your settings for DBAN_OVERVIEW.csv. Choose

Save as Default Metric Template



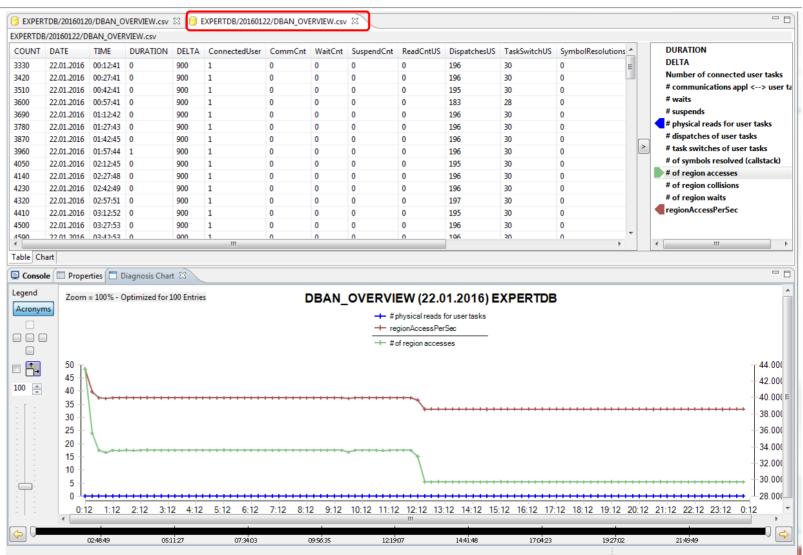
 \rightarrow Bac

Save as Default Metric Template

 \rightarrow Back

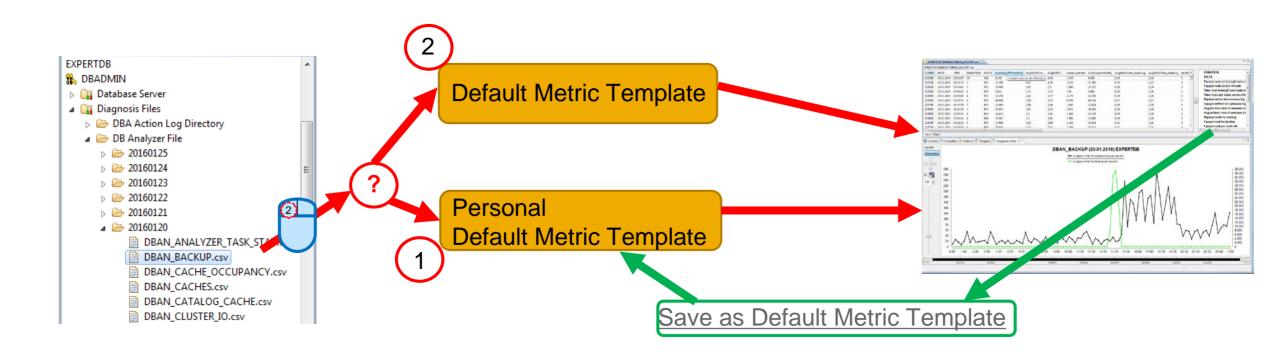
- You have changed the presentation of the chart and want to keep your settings for DBAN_OVERVIEW.csv. Choose
 Save as Default Metric Template
- 2. If you now open the same csv file in another date folder by double clicking then your personal changes will be visible.

E.g.: 20160122



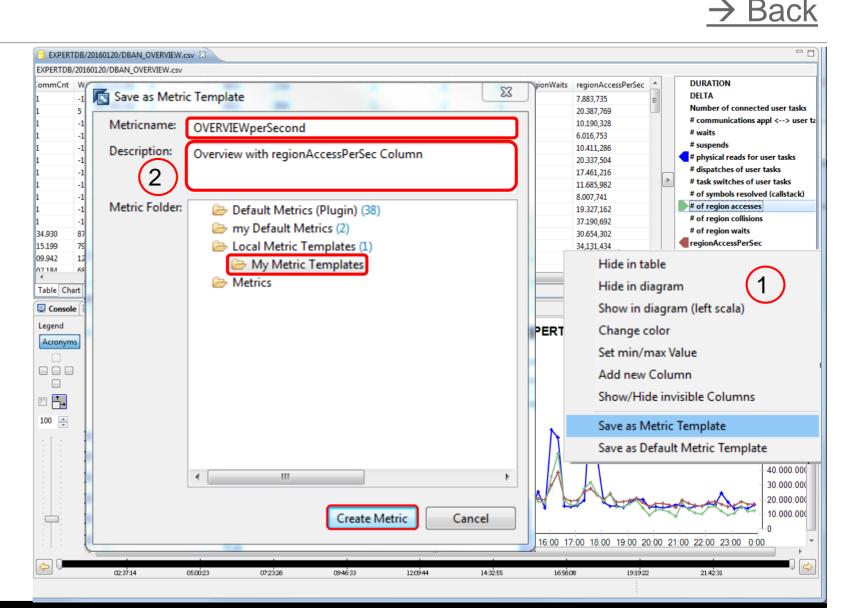
Default Metric Templates





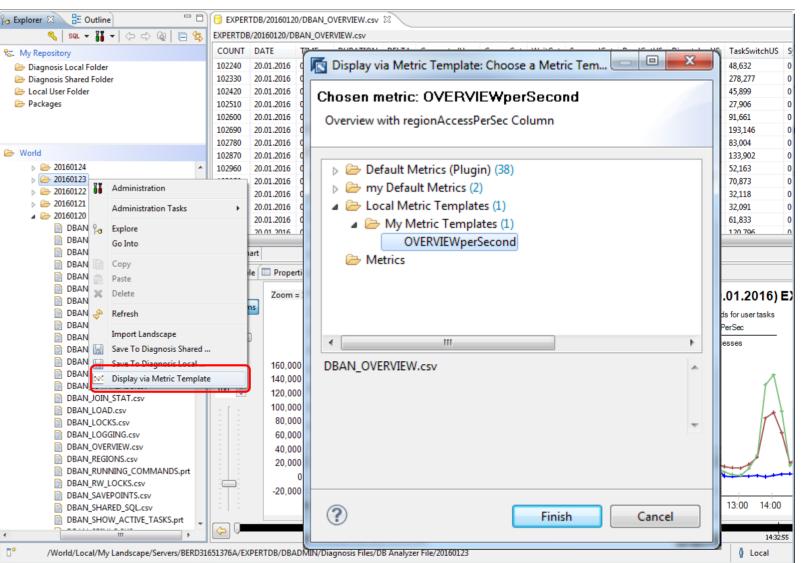
Database Analyzer Charts Save as Metric Template

- You can save your settings as named Metric Template under a specific name. Choose: Save as Metric Template
- 2. Specify a meaningful name and a description. Choose the folder where to store the this Metric Template and click the **Create Metric** button.



Database Analyzer Charts Save as Metric Template

- You can save your settings as named Metric Template under a specific name. Choose: Save as Metric Template
- 2. Specify a meaningful name and a description. Choose the folder where to store the this Metric Template and click the **Create Metric** button.
- 3. Now you can apply this **Metric Template** to any other date folder via context function **Display via Metric Template.**



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Database Analyzer Charts Save as Metric Template

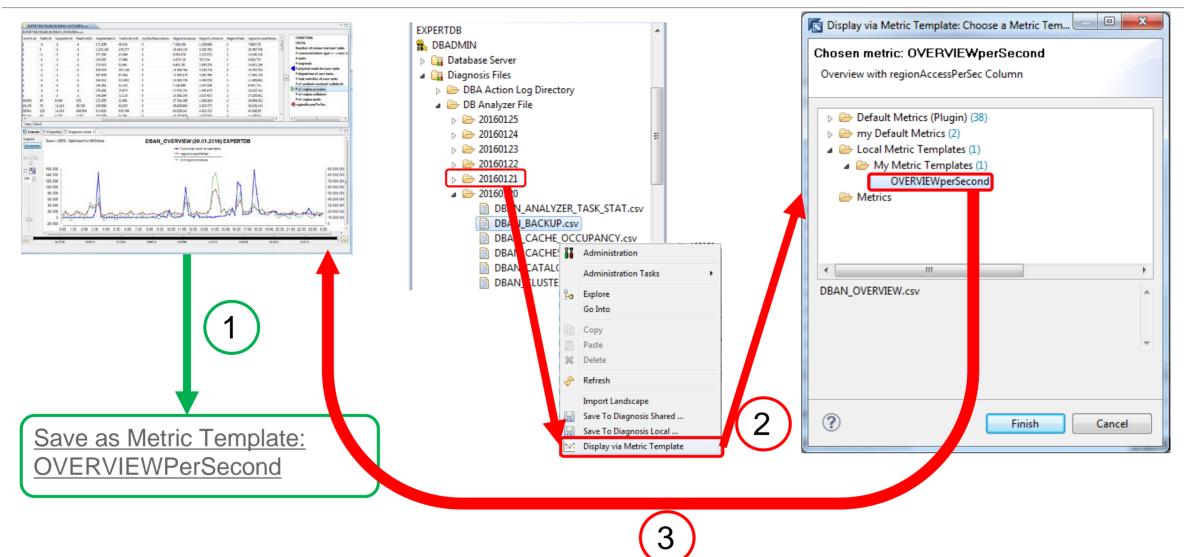
- You can save your settings as named Metric Template under a specific name. Choose: Save as Metric Template
- Specify a meaningful name and a description. Choose the folder where to store the this Metric Template and click the Create Metric button.
- 3. Now you can apply this **Metric Template** to any other date folder via context function **Display via Metric Template.**
- As result you can see your Metric Template applied onto the other date folder.

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240	23	00:	0	900	0	0	0	0	0	0	0	0		# waits	
330	23	01:	0	900	0	0	0	0	0	0	0	0		# suspends	
420	23	01:	0	900	0	0	0	0	0	0	0	0		# physical reads for	
510	23	01:	0	900	0	0	0	0	0	0	0	0	>	# dispatches of use # task switches of t	
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690	23	02:	0	900	0	0	0	0	0	0	0	0		# of symbols resolv	
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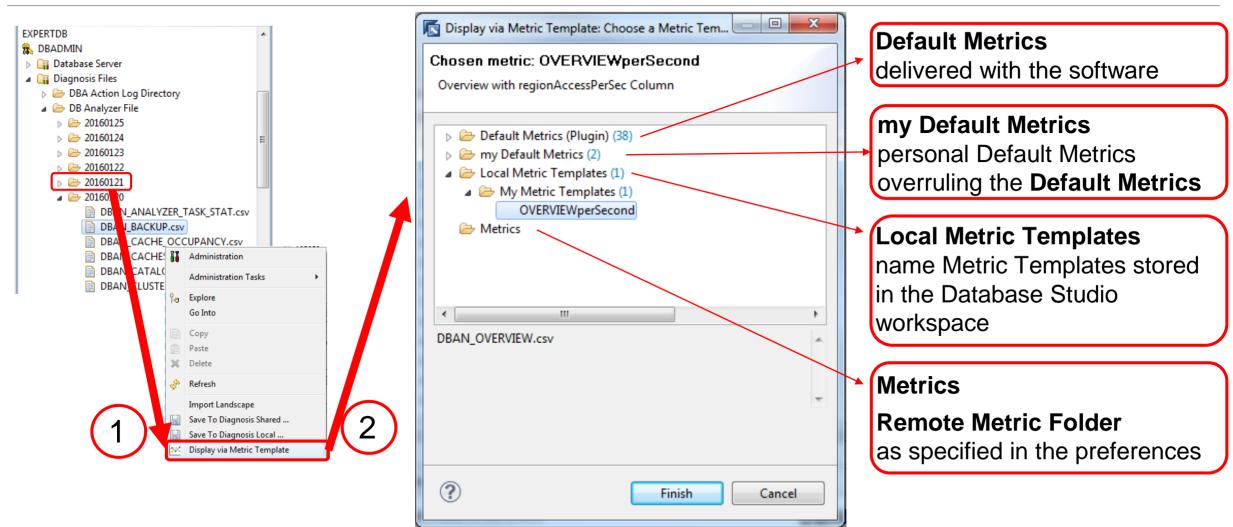
Database Analyzer Charts Named Metric Templates

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Applying Metric Templates



Working with the Navigator

How to reset to the predefined Metric Templates

 Open a navigator view: Window -> Show View -> Other -> General -> Navigator and press Ok

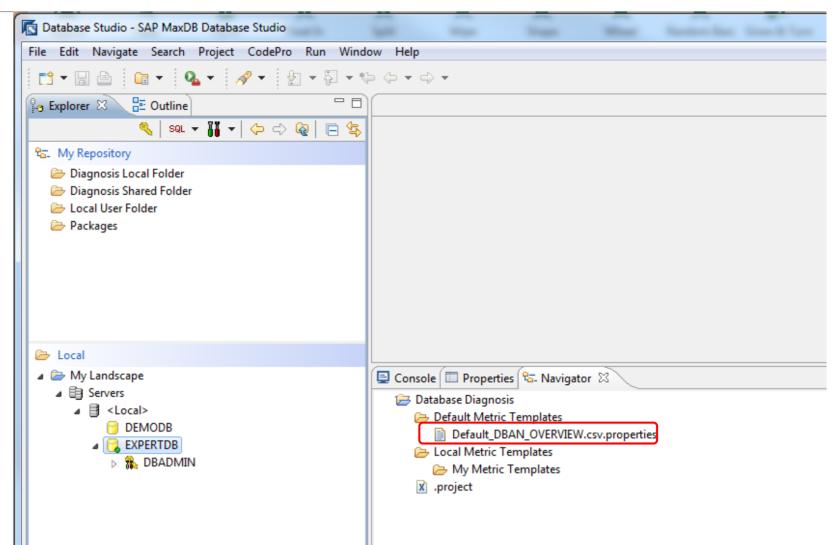
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 Ravigator Outline Palette Problems Progress Project Explorer Properties ✓ Search ✓ Tasks Data Management ➢ Database Studio 	Show View Actions Customize Perspective Databases Save Perspective As Details Reset Perspective Event Log Viewer Close Perspective Explain Close All Perspectives Subjective Navigation Properties
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Working with the Navigator

How to reset to the predefined Metric Templates

- Open a navigator view: Window -> Show View -> Other -> General -> Navigator and press Ok
- 2. Per default you see your personal Default Metric Templates and the Local Metric Templates you have defined so far.

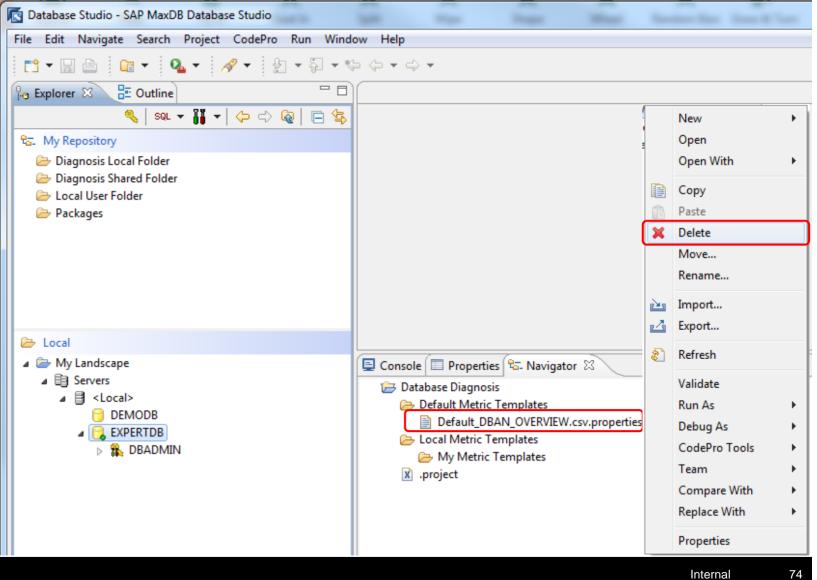


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Working with the Navigator

How to reset to the predefined Metric Templates

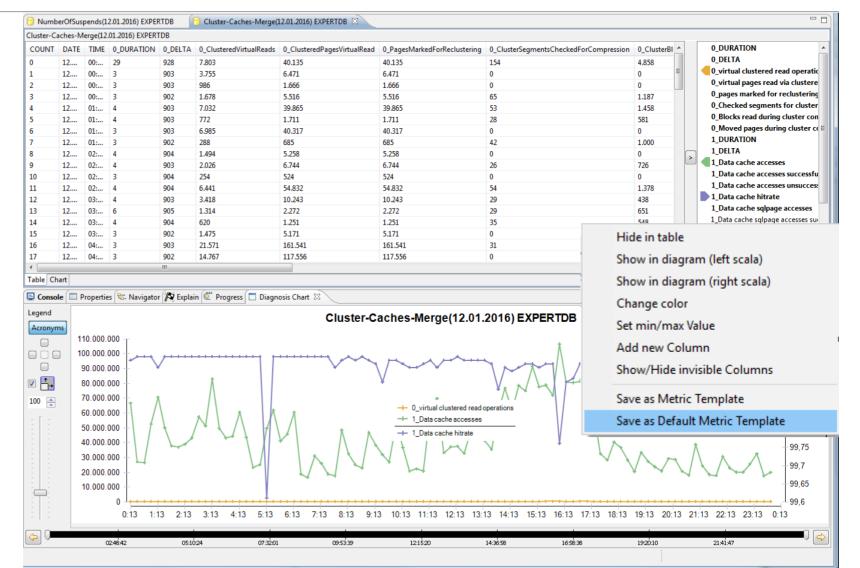
- Open a navigator view: Window -> Show View -> Other -> General -> Navigator and press Ok
- 2. Per default you see your personal Default Metric Templates and the Local Metric Templates you have defined so far
- 3. To reset to the predefined **Default Metric Templates:** delete in the folder Default Metric Templates your personal Default Metric Template



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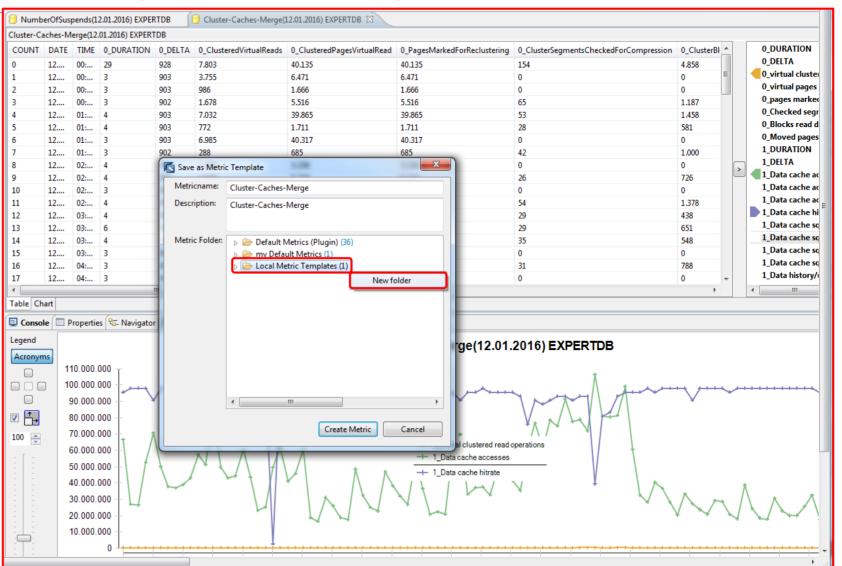
Store your Results of Analysis in a Separate Metric Template Folder

 Save the analysis results as Metric Templates into a folder of Metric Templates.



Store your Results of Analysis in a Separate Metric Template Folder

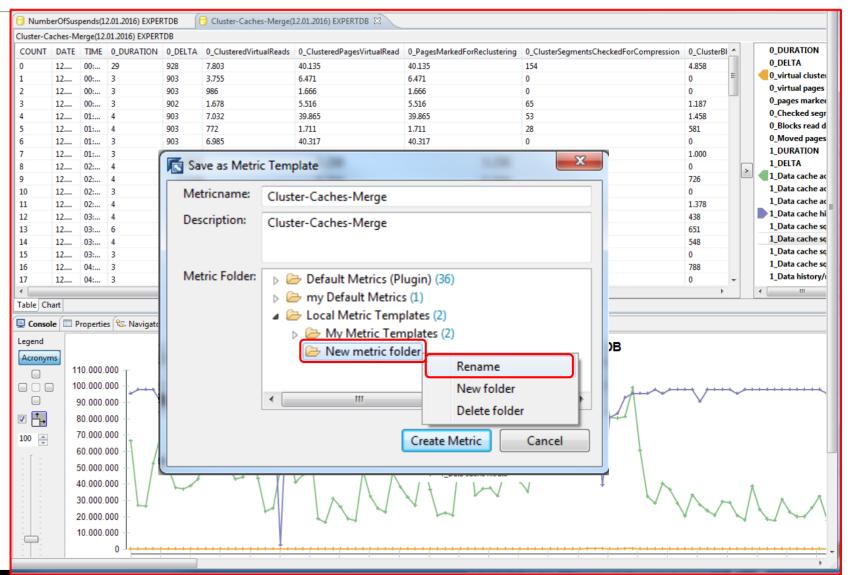
- Save the analysis results as Metric Templates into a folder of Metric Templates.
- 2. Via context menu
 - make a new folder
 - rename the folder and
 - create the Metric Templates



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Store your Results of Analysis in a Separate Metric Template Folder

- Save the analysis results as Metric Templates into a folder of Metric Templates.
- 2. Via context menu
 - make a new folder
 - rename the folder and ...

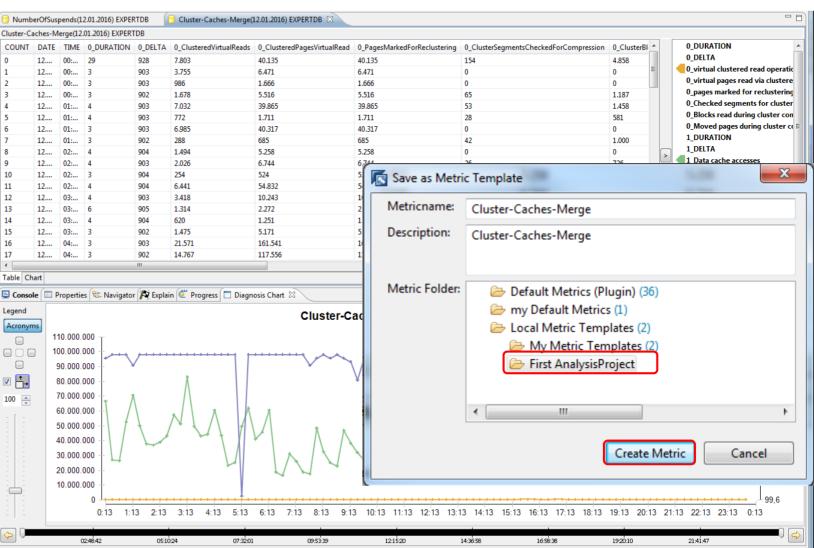


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Store your Results of Analysis in a Separate Metric Template Folder

- Save the analysis results as Metric Templates into a folder of Metric Templates.
- 2. Via context menu
 - make a new folder
 - rename the folder and ...
- 3. ... for every metric template you want to keep as result:

create a Metric Template in that project folder.



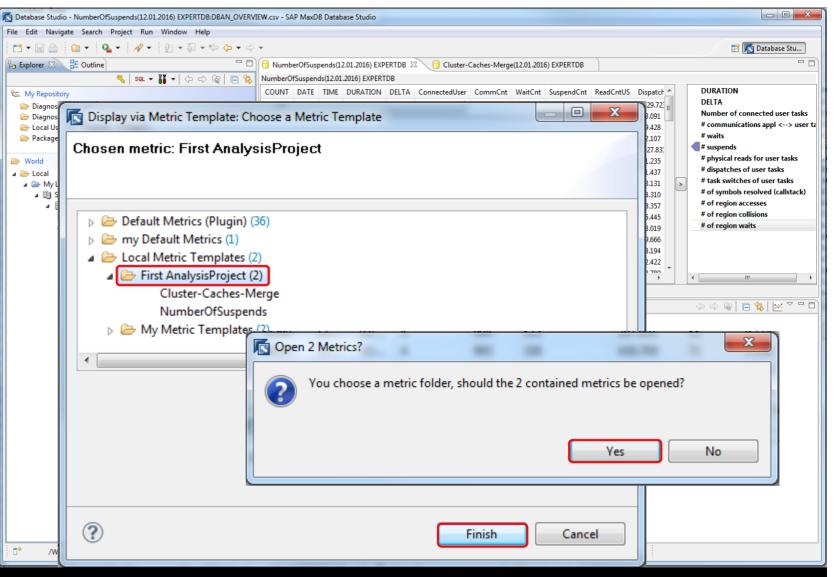
Using Folders of Metric Templates to Profit from your Findings

- Use the analysis project to apply it on another date folder of the same or another database.
- 2. Right click on the date folder and choose
 - Display via Metric Templates
 - choose the project folder to be applied.

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Using Folders of Metric Templates to Profit from your Findings

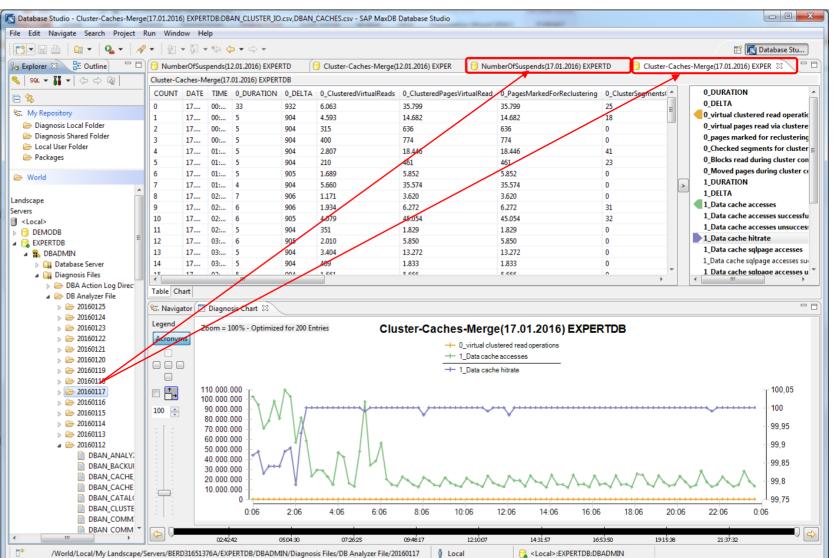
- Use the analysis project to apply it on another date folder of the same or another database.
- Right click on the date folder and choose
 - Display via Metric Templates
 - choose the project folder to be applied.
 - Click Finish and then Yes.



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Using Folders of Metric Templates to Profit from your Findings

- Use the analysis project to apply it on another date folder of the same or another database.
- 2. Right click on the date folder and choose
 - Display via Metric Templates
 - choose the project folder to be applied.
- 3. Click Finish and then Yes.
- 4. As result you can see the same charts according to another date folder.



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Thank you

Contact information:

Barbara Jakubowski IMS MaxDB / liveCache b.jakubowski@sap.com