Leveraging the Extended Events UI



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What This Module Covers



Steps to create an event session in the UI

How to view data – live and saved – and customize the viewer

How to analyze data in the UI

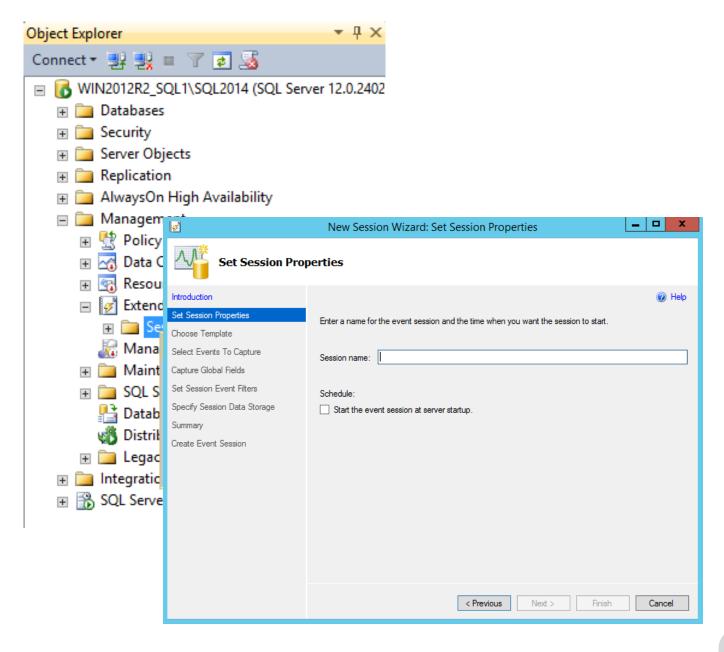


Everything we used to do with T-SQL, you can now do in the UI (and more!)





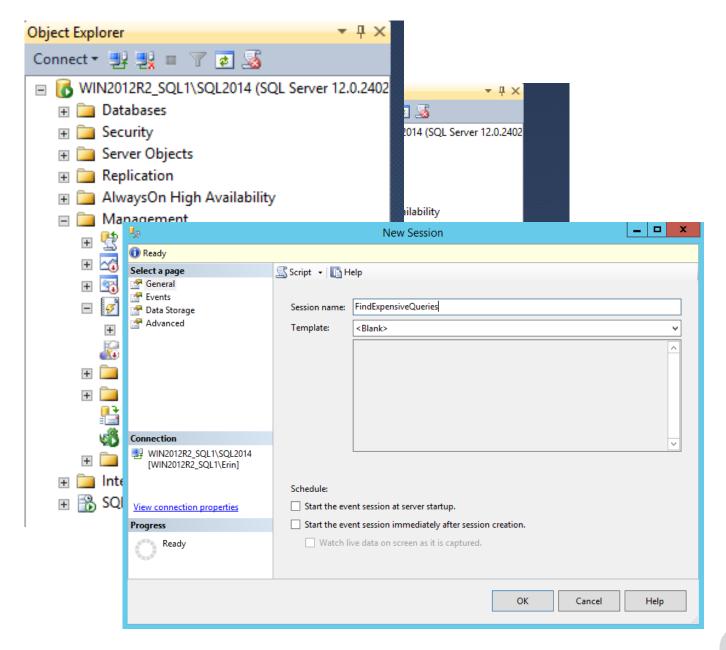
New Session Wizard allows quick creation of a new session from a template, or with a minimal set of configurable options





New Session dialog can be used for advanced session creation with all available options and targets

Existing sessions can be modified through the right-click menu option





Templates

Templates are an easy way to automate setup of an Extended Events session

You can export an existing session to create a template

You can create a custom category for templates you create by editing the .xml file



Demo



Creating an event session and analyzing the output in the UI



Live Data Viewer reads a live stream of event buffers from an Extended Events session on a server

Display	Displaying 9204 Events						
	name	timestamp					
	rpc_completed	2014-08-24 15:20:51.7991295					
	sp_statement_completed	2014-08-24 15:20:51.8001808					
	rpc_completed	2014-08-24 15:20:51.8001953					
	sp_statement_completed	2014-08-24 15:20:51.8011237					
	rpc_completed	2014-08-24 15:20:51.8011381					
	sp_statement_completed	2014-08-24 15:20:51.8031239					
	rpc_completed	2014-08-24 15:20:51.8031391					
	sp_statement_completed	2014-08-24 15:20:51.8038994					

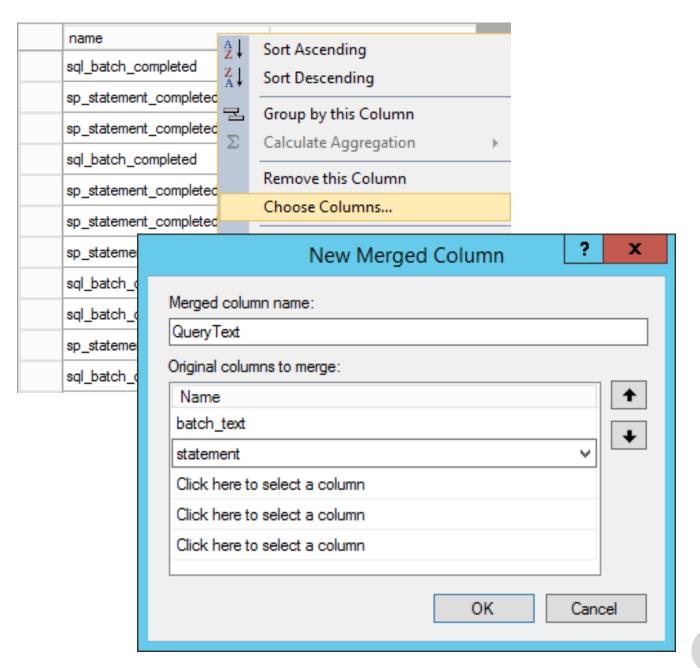
Event: rpc_completed (2014-08-24 15:20:51.8198301)

Details

Field	Value
connection_reset	None
cpu_time	0
data_stream	0x
database_id	7
duration	730
logical_reads	935
object_name	usp_GetProductInfo
output_parameters	
physical_reads	0
result	OK
row_count	293



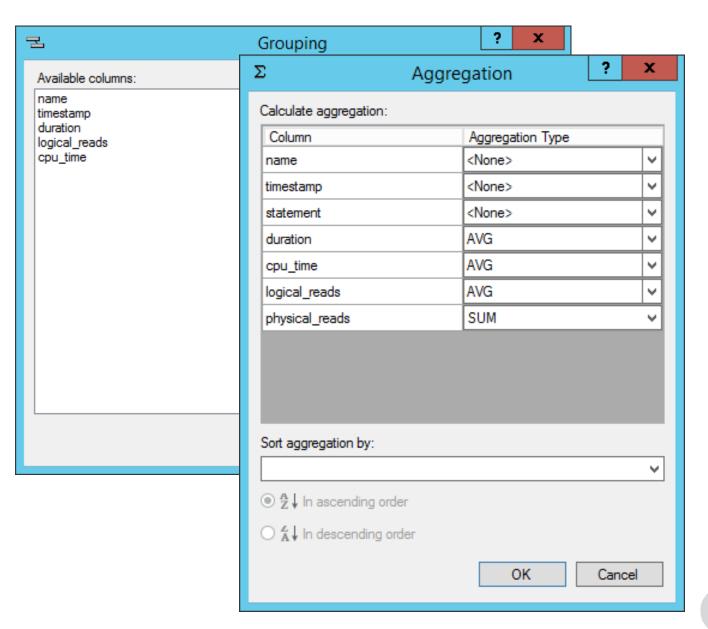
Within the data viewer you can customize what columns you see, and you can create merged columns





Within the UI data can be grouped by any of the available columns

Data can also be aggregated to display, for example, the minimum, maximum, or average value for a column



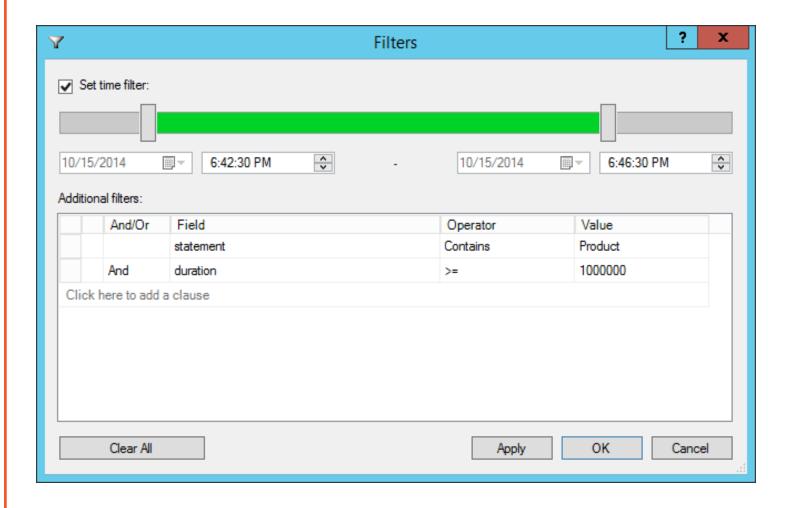


Expand a grouping to see data at a detail level

name	timestamp	query_hash	statement	duration	cpu_time	logical_reads	physical_reads
guery_hash: 155688486	44667196686 (87)						
				AVG: 148.632	AVG: 356.321839	AVG: 6.04597701149	SUM:
duery_hash: 910239242	5152069755 (103)						
				AVG: 8631.56	AVG: 2407.76699	AVG: 821.262135922	SUM:
guery_hash: 0 (397)							
				AVG: 13017.0	AVG: 8108.31234	AVG: 168.105793450	SUM: 61
query_hash: 674435744	1925578195 (90)						
				AVG: 1281.3	AVG: 0	AVG: 5	SUM: 29
sp_statement_completed	2014-10-15 18:47:18.2690928	6744357441925578195	SELECT * FROM [Person].[Person]	4295	0	5	
sp_statement_completed sp_statement_completed	2014-10-15 18:47:18.2690928 2014-10-15 18:47:18.4084982		SELECT * FROM [Person].[Person] SELECT * FROM [Person].[Person]	4295 75	0	5	
		6744357441925578195			0	5 5 5	
sp_statement_completed	2014-10-15 18:47:18.4084982	6744357441925578195 6744357441925578195	SELECT * FROM [Person].[Person]	75 4269	0 0 0	5 5 5 5	
sp_statement_completed sp_statement_completed	2014-10-15 18:47:18.4084982 2014-10-15 18:47:18.5528949	6744357441925578195 6744357441925578195 6744357441925578195	SELECT* FROM [Person].[Person] SELECT* FROM [Person].[Person]	75 4269 73	0 0 0 0	5 5 5 5	
sp_statement_completed sp_statement_completed sp_statement_completed	2014-10-15 18:47:18.4084982 2014-10-15 18:47:18.5528949 2014-10-15 18:47:18.6976039	6744357441925578195 6744357441925578195 6744357441925578195 6744357441925578195	SELECT * FROM [Person].[Person] SELECT * FROM [Person].[Person] SELECT * FROM [Person].[Person]	75 4269 73	0 0 0 0	5 5 5 5 5	

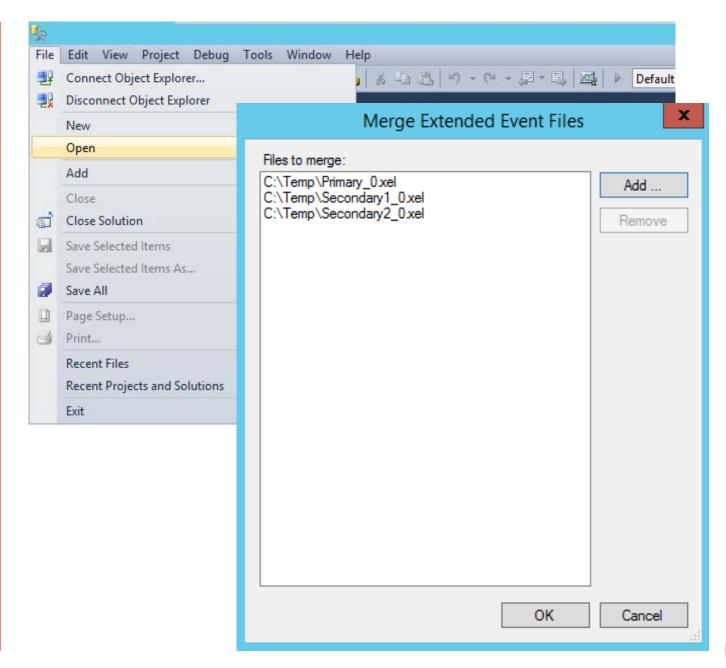


Data can be filtered based on time, and/or column values





Multiple files can be merged together in the UI to create one master file for analysis





Events can be bookmarked within the UI, making it easy to quickly find them again







What This Module Covered



How to create an event session in the UI

How to view live data

Options for customizing the viewer

Methods for analyzing captured data in the UI including:

- Filtering
- Grouping
- Aggregating

