



Qure Workload Analyzer Visual Introduction

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Tired of analyzing endless traces?



Can't see the forest for the trees?

SQL Server Profiler - [C:\Temp\Sample traces\QWA_Demo_Baseline.trc]

EventClass	TextData	Binn...	Datab...	NTUserNa...	HostName	ApplicationName	LoginName	SPID	Duration	Reads	Writes	CPU	Error	Dt...
SQL:BatchCompleted	SELECT e.EmployeeID, NationalIDNumber, ContactID FROM Purchasing.Pur...	6	Mary	Purch_PC3	Purchasing	Advworks/Mary	56	414	1787	20	205	0	...	Ac
SQL:BatchCompleted	SELECT ContactID, FirstName, LastName FROM Person.Contact WHERE Fi...	6	Steve	WebServer4	.Net SqlClient Data...	Advworks/Steve	56	487	2246	9	162	0	...	Ac
SQL:BatchCompleted	declare @a INT set @a=14 SELECT * FROM [Purchasing].PurchaseOrderHe...	6	Sylvia	Purch_PC1	Purchasing	Advworks/Sylvia	56	103	102	0	12	0	...	Ac
SQL:BatchCompleted	SELECT Sales.SalesOrderHeader.SalesOrderID FROM Sales.SalesOrderHea...	6	Lydia	Sales_PC2	Sales	Advworks/Lydia	56	197	1509	0	28	0	...	Ac
SQL:BatchCompleted	declare @a INT set @a=12 SELECT * FROM [Purchasing].PurchaseOrderHe...	6	Sylvia	Purch_PC3	Purchasing	Advworks/Sylvia	56	10	19	0	15	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee WH...	6	Mary	Purch_PC4	Purchasing	Advworks/Mary	56	6	33	0	0	0	...	Ac
SQL:BatchCompleted	SELECT SOD.SalesOrderID, P.Name, ...	6	Bill	Sales_PC1	Sales	Advworks/Bill	56	573	3988	7	720	0	...	Ac
SQL:BatchCompleted	SELECT Sales.SalesOrderHeader.SalesOrderID FROM Sales.SalesOrderHea...	6	Lydia	Sales_PC3	Sales	Advworks/Lydia	56	1991	16...	0	1...	0	...	Ac
SQL:BatchCompleted	SELECT SalesPersonID, SalesOrderID FROM Sales.SalesOrderHeader WHER...	6	Bill	Sales_PC4	Sales	Advworks/Bill	56	74	137	0	37	0	...	Ac
SQL:BatchCompleted	SELECT * FROM [Purchasing].PurchaseOrderHeader WHERE YEAR(Ord...	6	Mary	Purch_PC5	Purchasing	Advworks/Mary	56	42	212	1	16	0	...	Ac
SQL:BatchCompleted	declare @a INT set @a=10 SELECT * FROM [Purchasing].PurchaseOrderHe...	6	Sylvia	Purch_PC2	Purchasing	Advworks/Sylvia	56	75	88	0	12	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee WHE...	6	Mary	Purch_PC3	Purchasing	Advworks/Mary	56	26	24	0	12	0	...	Ac
SQL:BatchCompleted	SELECT SalesOrderHeader.SalesOrderID FROM Sales.SalesOrderHeader WH...	6	Peter	Sales_PC4	Sales	Advworks/Peter	56	82	1935	7	55	0	...	Ac
SQL:BatchCompleted	SELECT SalesOrderID, CustomerID, OrderDate FROM Sales.SalesOrd...	6	Lydia	Sales_PC5	Sales	Advworks/Lydia	56	12	1201	0	12	0	...	Ac
SQL:BatchCompleted	SELECT P.Name, COUNT(*) FROM Production.TransactionHistory TH...	6	Steve	Produ_PC1	Production	Advworks/Steve	56	757	3621	3	618	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber, Title FROM HumanResources.Empl...	6	Hillary	WebServer2	.Net SqlClient Data...	Advworks/Hillary	56	21	100	3	14	0	...	Ac
SQL:BatchCompleted	SELECT SOD.SalesOrderID, P.ProductID, ...	6	Bill	Sales_PC3	Sales	Advworks/Bill	56	610	4637	3	394	0	...	Ac
SQL:BatchCompleted	declare @a INT set @a=11 SELECT * FROM [Purchasing].PurchaseOrderHe...	6	Sylvia	Purch_PC4	Purchasing	Advworks/Sylvia	56	96	55	0	0	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee WH...	6	Hillary	WebServer5	.Net SqlClient Data...	Advworks/Hillary	56	3	11	0	0	0	...	Ac
SQL:BatchCompleted	declare @a INT set @a=11 SELECT * FROM [Purchasing].PurchaseOrderHe...	6	Sylvia	Purch_PC1	Purchasing	Advworks/Sylvia	56	42	54	0	14	0	...	Ac
SQL:BatchCompleted	SELECT * FROM [HumanResources].Employee WHERE EmployeeID IN ...	6	Sylvia	Purch_PC2	Purchasing	Advworks/Sylvia	56	24	140	0	31	0	...	Ac
SQL:BatchCompleted	SELECT ContactID, FirstName, LastName FROM Person.Contact WHERE Fi...	6	Mike	WebServer4	.Net SqlClient Data...	Advworks/Mike	56	44	931	0	28	0	...	Ac
SQL:BatchCompleted	DECLARE @a INT SET @a = 1 SELECT * FROM Sales.SalesOrderDetail WHER...	6	Bill	Sales_PC5	Sales	Advworks/Bill	56	648	4093	0	394	0	...	Ac
SQL:BatchCompleted	SELECT MAX(Datepart (yyyy, OrderDate)) FROM [Purchasing].PurchaseOr...	6	Mary	Purch_PC1	Purchasing	Advworks/Mary	56	12	80	0	0	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee WH...	6	Sylvia	Purch_PC3	Purchasing	Advworks/Sylvia	56	25	37	0	13	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee, P...	6	Mary	Purch_PC5	Purchasing	Advworks/Mary	56	76	144	0	62	0	...	Ac
SQL:BatchCompleted	SELECT EmployeeID, NationalIDNumber FROM HumanResources.Employee WH...	6	Mary	Purch_PC1	Purchasing	Advworks/Mary	56	1	12	0	0	0	...	Ac
SQL:BatchCompleted	SELECT FirstName, LastName FROM Person.Contact UNION select	6	Mary	Purch_PC2	Purchasing	Advworks/Mary	56	262	996	0	102	0	...	Ac

```

SELECT e.EmployeeID, NationalIDNumber, ContactID
FROM Purchasing.PurchaseOrderHeader o
INNER JOIN
HumanResources.Employee e
ON o.EmployeeID = e.EmployeeID
INNER Join Purchasing.PurchaseOrderDetail d
on d.PurchaseOrderID= o.PurchaseOrderID
WHERE e.Gender = 'M'
Group by e.EmployeeID, NationalIDNumber, ContactID, o.PurchaseOrderID
HAVING SUM(TotalDue) > 100000.00
go
SELECT ContactID, FirstName, LastName
FROM Person.Contact
WHERE FirstName LIKE 'AS%'
and
(LastName LIKE 'AS%'
OR ContactID = 230)
go
declare @a INT
set @a=14
SELECT *
FROM [Purchasing].PurchaseOrderHeader s, [Purchasing].PurchaseOrderHeader p
WHERE p.PurchaseOrderID = @a
go
SELECT Sales.SalesOrderHeader.SalesOrderID
FROM Sales.SalesOrderHeader
WHERE Sales.SalesOrderHeader.BillToAddressID NOT IN (select top 100 BillToAddressID from Sales.SalesOrderHeader)
go
declare @a INT

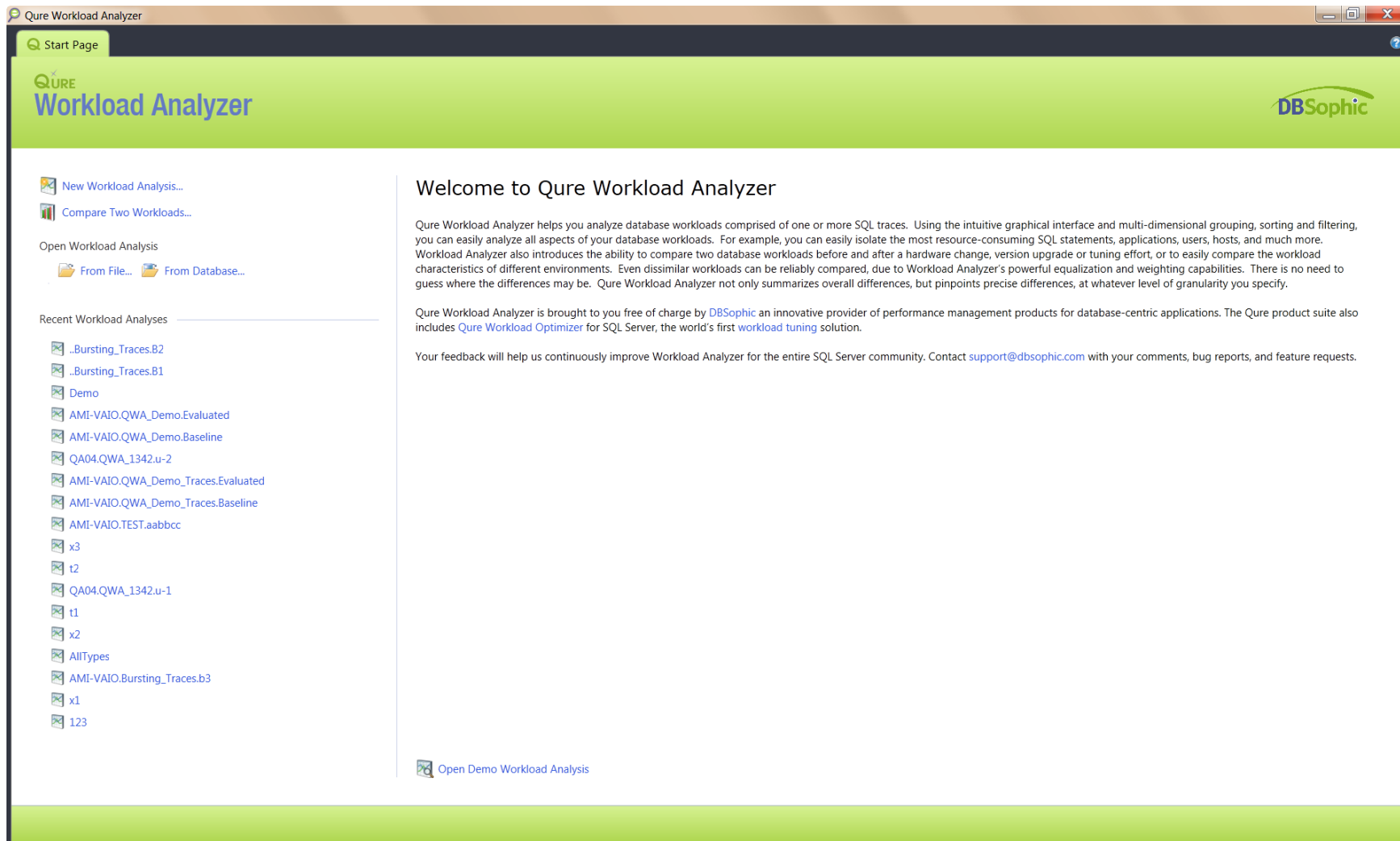
```

Done. Ln 1, Col 2 Rows: 937 Connections: 0

Welcome to Qure Workload Analyzer!



FREE to download and use!



The screenshot shows the Qure Workload Analyzer application window. The title bar reads "Qure Workload Analyzer". The interface has a green header with the "QURE Workload Analyzer" logo on the left and the "DBSophic" logo on the right. Below the header, there are several sections:

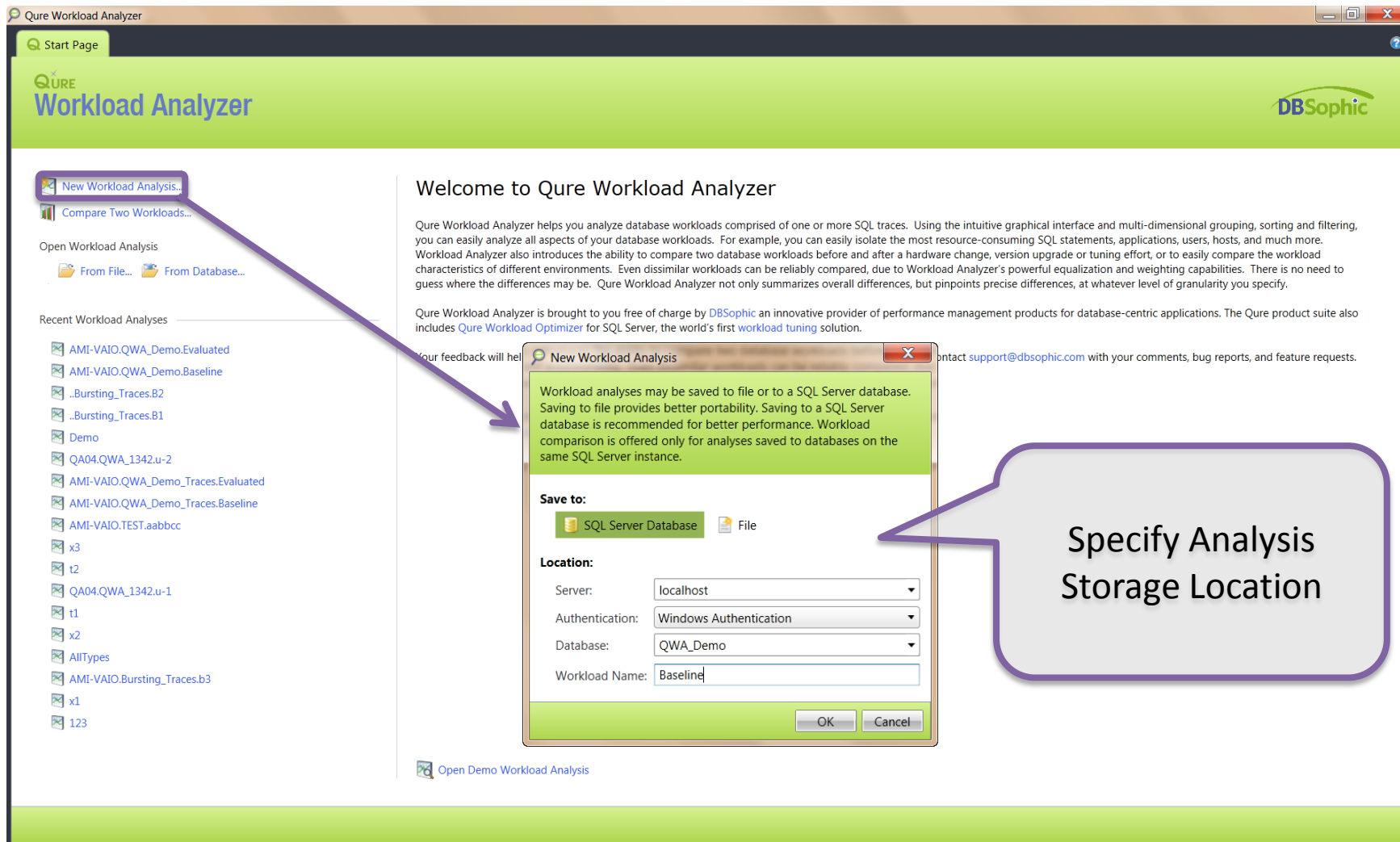
- Start Page**: A button to return to the start page.
- Actions**: "New Workload Analysis..." and "Compare Two Workloads..." buttons.
- Open Workload Analysis**: "From File..." and "From Database..." buttons.
- Recent Workload Analyses**: A list of recent analyses, each with a small icon and a file name:
 - ..Bursting_Traces.B2
 - ..Bursting_Traces.B1
 - Demo
 - AMI-VAIO.QWA_Demo.Evaluated
 - AMI-VAIO.QWA_Demo.Baseline
 - QA04.QWA_1342.u-2
 - AMI-VAIO.QWA_Demo_Traces.Evaluated
 - AMI-VAIO.QWA_Demo_Traces.Baseline
 - AMI-VAIO.TEST.aabbcc
 - x3
 - t2
 - QA04.QWA_1342.u-1
 - t1
 - x2
 - AllTypes
 - AMI-VAIO.Bursting_Traces.b3
 - x1
 - 123
- Welcome to Qure Workload Analyzer**: A central text area with a welcome message and information about the software's capabilities and support.

Qure Workload Analyzer helps you analyze database workloads comprised of one or more SQL traces. Using the intuitive graphical interface and multi-dimensional grouping, sorting and filtering, you can easily analyze all aspects of your database workloads. For example, you can easily isolate the most resource-consuming SQL statements, applications, users, hosts, and much more. Workload Analyzer also introduces the ability to compare two database workloads before and after a hardware change, version upgrade or tuning effort, or to easily compare the workload characteristics of different environments. Even dissimilar workloads can be reliably compared, due to Workload Analyzer's powerful equalization and weighting capabilities. There is no need to guess where the differences may be. Qure Workload Analyzer not only summarizes overall differences, but pinpoints precise differences, at whatever level of granularity you specify.

Qure Workload Analyzer is brought to you free of charge by DBSophic an innovative provider of performance management products for database-centric applications. The Qure product suite also includes [Qure Workload Optimizer](#) for SQL Server, the world's first [workload tuning](#) solution.

Your feedback will help us continuously improve Workload Analyzer for the entire SQL Server community. Contact support@dbsophic.com with your comments, bug reports, and feature requests.
- Open Demo Workload Analysis**: A button at the bottom of the main content area.

Start a new workload analysis



The screenshot shows the Qure Workload Analyzer application window. The main interface includes a 'Start Page' tab, the 'QURE Workload Analyzer' title, and the DBSophic logo. On the left, there is a sidebar with options like 'New Workload Analysis...', 'Compare Two Workloads...', 'Open Workload Analysis' (with 'From File...' and 'From Database...' sub-options), and a list of 'Recent Workload Analyses' including items like 'AMI-VAIO.QWA_Demo.Evaluated', 'AMI-VAIO.QWA_Demo.Baseline', and 'QA04.QWA_1342.u-2'. The main content area displays a 'Welcome to Qure Workload Analyzer' message and a 'New Workload Analysis' dialog box. The dialog box contains the following text and fields:

Workload analyses may be saved to file or to a SQL Server database. Saving to file provides better portability. Saving to a SQL Server database is recommended for better performance. Workload comparison is offered only for analyses saved to databases on the same SQL Server instance.

Save to:

- SQL Server Database
- File

Location:

Server: localhost

Authentication: Windows Authentication

Database: QWA_Demo

Workload Name: Baseline

Buttons: OK, Cancel

A purple arrow points from the 'New Workload Analysis...' button in the sidebar to the dialog box. A speech bubble on the right contains the text 'Specify Analysis Storage Location'.

Select multiple trace files or tables

The screenshot displays the Qure Workload Analyzer application window. The main interface includes a sidebar with navigation options like 'New Workload Analysis...', 'Compare Two Workloads...', and a list of 'Recent Workload Analyses'. The central area shows a 'Welcome to Qure Workload Analyzer' message and a 'New Workload Analysis' dialog box.

The 'New Workload Analysis' dialog box is divided into two sections:

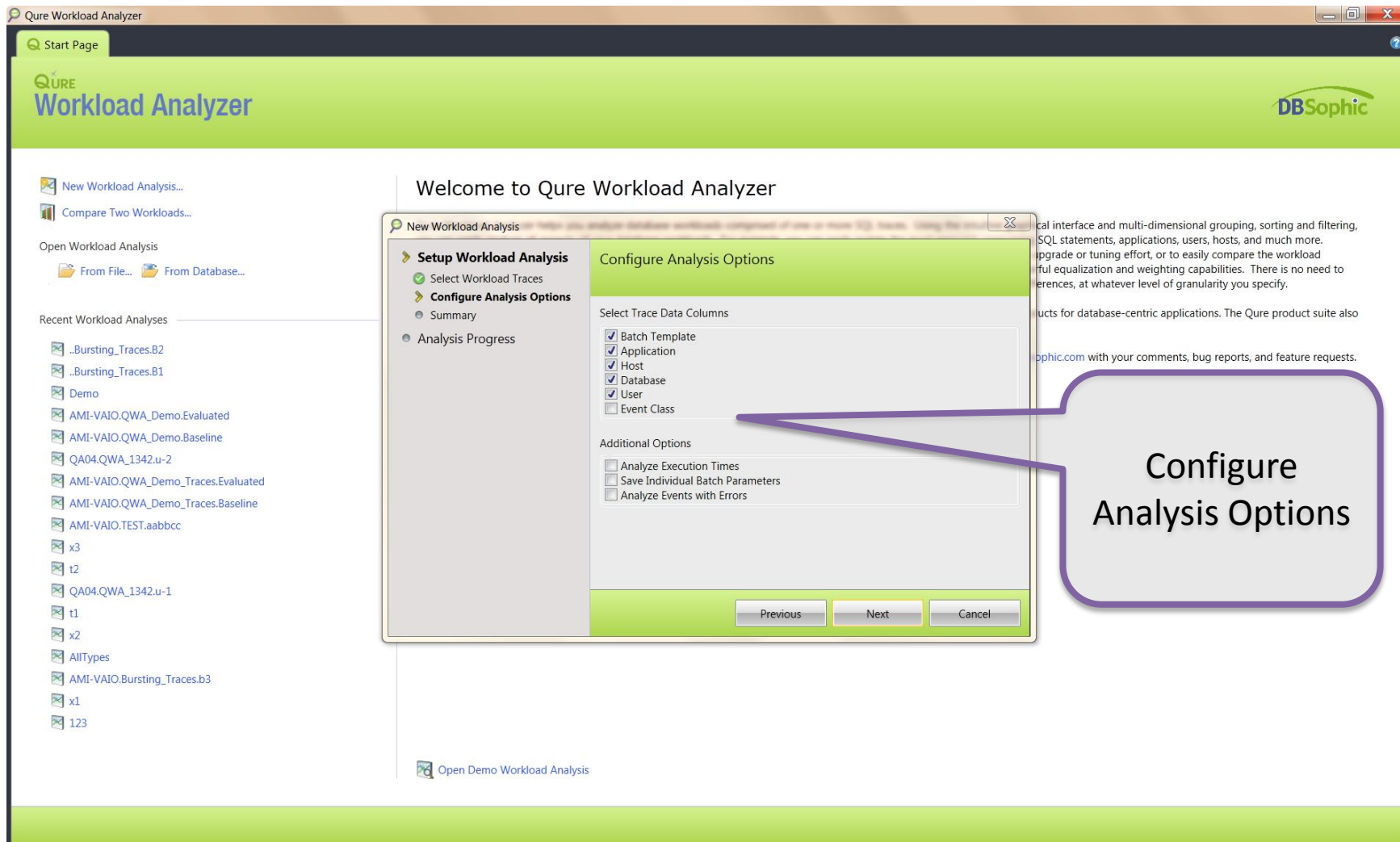
- Setup Workload Analysis:** Contains options for 'Select Workload Traces', 'Configure Analysis Options', 'Summary', and 'Analysis Progress'.
- Select Workload Traces:** A list of trace files is shown, including:
 - C:\Temp\Sample traces\QWA_Demo_Baseline.trc
 - C:\Temp\Sample traces\QWA_Demo_Evaluated.trc
 - Traces.dbo.BurstingAll1
 - SQLSentry.dbo.PerformanceAnalysisTraceData
 - C:\Temp\Sample traces\Bursting_1.trc
 - C:\Temp\Sample traces\Bursting_2.trc
 - C:\Temp\Sample traces\huncher1.trc
 - C:\Temp\Sample traces\huncher2.trc

An 'Add Trace' button is highlighted with a purple box and an arrow pointing to the 'Select Trace Table' dialog box. This sub-dialog box prompts the user to 'Select a table containing trace data.' and includes the following fields:

- Server: QA04
- Authentication: Windows Authentication
- Database: Traces
- Table: [dbo].[BurstingAllExec]

Buttons for 'OK' and 'Cancel' are visible at the bottom of the 'Select Trace Table' dialog. The main dialog also has 'Next' and 'Cancel' buttons at the bottom.

Configure analysis options



The screenshot displays the Qure Workload Analyzer application window. The main interface includes a sidebar with navigation options like 'New Workload Analysis...', 'Compare Two Workloads...', and a list of 'Recent Workload Analyses'. A central dialog box titled 'New Workload Analysis' is open, showing the 'Configure Analysis Options' step. This dialog has a left-hand navigation pane with 'Setup Workload Analysis', 'Configure Analysis Options', 'Summary', and 'Analysis Progress'. The 'Configure Analysis Options' pane contains two sections: 'Select Trace Data Columns' and 'Additional Options'. The 'Select Trace Data Columns' section has checkboxes for 'Batch Template', 'Application', 'Host', 'Database', 'User', and 'Event Class', all of which are checked. The 'Additional Options' section has checkboxes for 'Analyze Execution Times', 'Save Individual Batch Parameters', and 'Analyze Events with Errors', all of which are unchecked. At the bottom of the dialog are 'Previous', 'Next', and 'Cancel' buttons. A purple callout box with a pointer highlights the 'Configure Analysis Options' section of the dialog.

Qure Workload Analyzer

Start Page

QURE Workload Analyzer

DBSopnic

Welcome to Qure Workload Analyzer

New Workload Analysis

Setup Workload Analysis

Select Workload Traces

Configure Analysis Options

Summary

Analysis Progress

Configure Analysis Options

Select Trace Data Columns

- Batch Template
- Application
- Host
- Database
- User
- Event Class

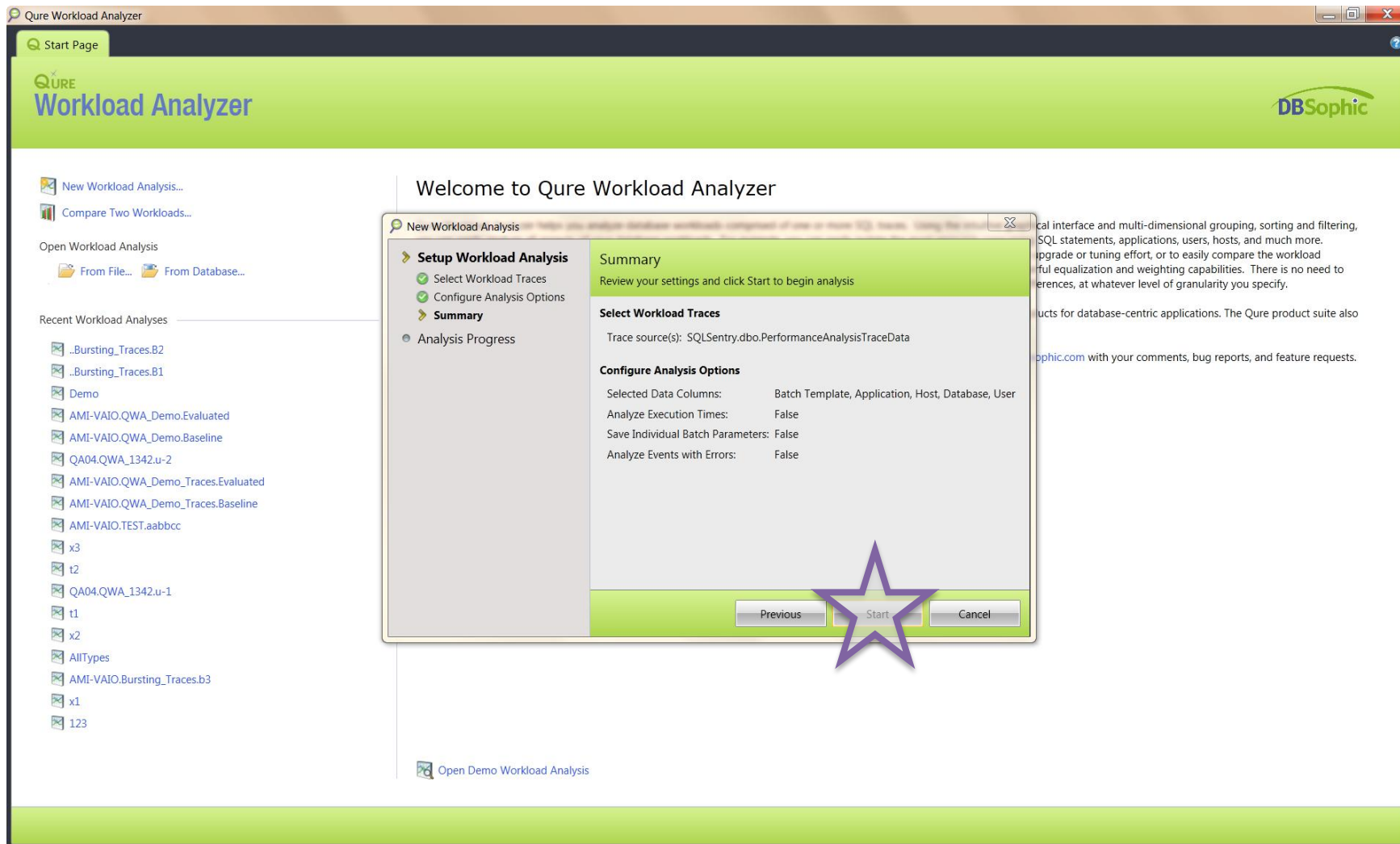
Additional Options

- Analyze Execution Times
- Save Individual Batch Parameters
- Analyze Events with Errors

Previous Next Cancel

Configure Analysis Options

Review your settings and GO!



The screenshot shows the Qure Workload Analyzer application window. The main interface has a green header with the 'QURE Workload Analyzer' logo and the DBSopnic logo. On the left, there is a sidebar with navigation options: 'New Workload Analysis...', 'Compare Two Workloads...', 'Open Workload Analysis' (with sub-options 'From File...' and 'From Database...'), and 'Recent Workload Analyses' (listing various analysis files like 'Bursting_Traces.B2', 'Demo', 'AMI-VAIO.QWA_Demo.Evaluated', etc.).

The central area displays a 'Welcome to Qure Workload Analyzer' message. A 'New Workload Analysis' dialog box is open, showing a 'Summary' tab. The dialog has a left sidebar with options: 'Setup Workload Analysis' (expanded), 'Select Workload Traces', 'Configure Analysis Options', 'Summary', and 'Analysis Progress'. The main content area of the dialog shows:

- Summary:** Review your settings and click Start to begin analysis.
- Select Workload Traces:** Trace source(s): SQLSentry.dbo.PerformanceAnalysisTraceData
- Configure Analysis Options:**
 - Selected Data Columns: Batch Template, Application, Host, Database, User
 - Analyze Execution Times: False
 - Save Individual Batch Parameters: False
 - Analyze Events with Errors: False

At the bottom of the dialog, there are three buttons: 'Previous', 'Start', and 'Cancel'. A large purple star is overlaid on the 'Start' button, indicating the next step in the process.

Review summary report

Qure Workload Analyzer

Start Page | Baseline x

Summary | Details | Compare to Baseline...

Baseline Workload Summary [\(Show Details\)](#)

Analysis Information

Total Number of Events: 937
Location: Baseline on AMI-VAIO.QWA_Demo

Workload Traces

Trace	Time Range	Event Count
[QWA_Demo].[dbo].[Baseline]	Unknown	937

Resource Consumption Statistics

Overall Resource Consumption

Resource	Total	Average	Min	Max
Duration	2.67 min	171.23 ms	0 μs	10.21 sec
CPU	3.4 min	217 ms	0 μs	22.31 sec
Reads	7.79M	8.32K	6	443.67K
Writes	390	0.42	0	22
Row Count	5.45M	5.82K	0	178.56K

Top Consuming Batch Templates

Resource	Top Consumer	Event Count	Total	Average	More Information
Reads	SELECT Sales.SalesOrderHeader.SalesOrderID FF	16	2.55M	159.48K	Show Batch Templates by Reads
CPU	SELECT Sales.SalesOrderHeader.SalesOrderID FF	13	2.17 min	10 sec	Show Batch Templates by CPU
Duration	SELECT Sales.SalesOrderHeader.SalesOrderID FF	13	47.16 sec	3.63 sec	Show Batch Templates by Duration
Writes	SELECT e.EmployeeID, NationalIDNumber,Cont	15	122	8.13	Show Batch Templates by Writes
Row Count	SELECT Sales.SalesOrderHeader.ShipToAddressI	35	2.03M	58.09K	Show Batch Templates by Row Cou

Top Consuming Batch Instances

Resource	Top Consumer	Event Count	Total	Average	More Information
Row Count	SELECT Sales.SalesOrderHeader.ShipToAddressI	16	898.56K	56.16K	Show Batch Instances by Row Coun
CPU	SELECT Sales.SalesOrderHeader.SalesOrderID FR	11	1.84 min	10.02 sec	Show Batch Instances by CPU
Duration	SELECT Sales.SalesOrderHeader.SalesOrderID FR	11	39.19 sec	3.56 sec	Show Batch Instances by Duration
Reads	SELECT Sales.SalesOrderHeader.SalesOrderID FR	11	2.17M	197.37K	Show Batch Instances by Reads
Writes	SELECT e.EmployeeID, NationalIDNumber,Conta	15	122	8.13	Show Batch Instances by Writes

Drill-down using the provided hyperlinks

Dynamic report settings

The screenshot shows the Qire Workload Analyzer interface. The main area is a table of workload data with columns for Batch Template, Duration, CPU, Reads, Writes, Row Count, and Event Count. The table is sorted by Duration in descending order. Callouts highlight several dynamic settings:

- Multi-level Grouping:** A callout points to the 'Batch Instance (TextData)' group header.
- Dynamic Sorting:** A callout points to the 'Duration' column header.
- Multiple Dynamic Filters:** A callout points to the 'Filter By' section on the left sidebar.
- Multiple Selection Details:** A callout points to the 'Resource Consumption' summary table at the bottom.

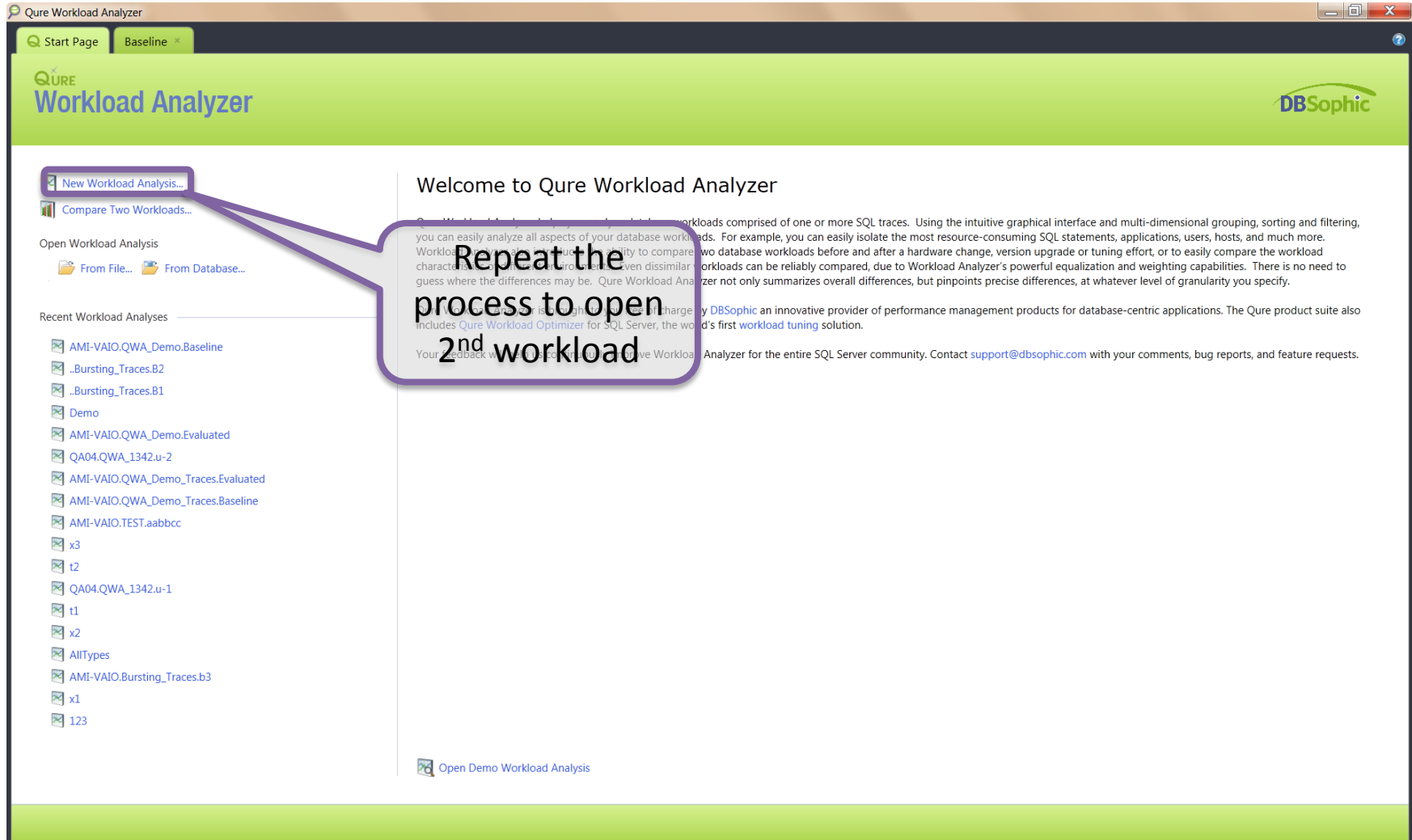
Batch Template	Duration	CPU	Reads	Writes	Row Count	Event Count
SELECT Sales.SalesOrderHeader.SalesOrderID FROM...	47.16 sec	2.17 min	2.49M	8	369.94K	13
Batch Instance (TextData)						
SELECT Sales.SalesOrderHeader.SalesOrderID FROM...	39.19 sec	1.84 min	2.17M	0	313.03K	11
SELECT Sales.SalesOrderHeader.SalesOrderID FROM...	7.97 sec	19.74 sec	316.91K	0	56.91K	2
SELECT Sales.SalesOrderHeader.SalesOrderID FROM...	19.29 sec	14.36 sec	2.55M	0	0	16
SELECT Sales.SalesOrderHeader.ShipToAddressID, S...	15.88 sec	11.49 sec	2.03M	35	568.11K	16
SELECT * FROM Sales.SalesOrderDetail WHERE Sales...	8.32 sec	3.52 sec	4.85K	0	7.27K	42
SELECT * FROM Sales.SalesOrderDetail WHERE UnitP...	6.66 sec	4.28 sec	90.26K	0	230.44K	11
SELECT SOD.SalesOrderID, P.Name, SOD.OrderQty F...	5.84 sec	6.65 sec	33.79K	40	390.9K	19
SELECT SOD.SalesOrderID, P.Name, SOD.OrderQty F...	4.92 sec	3.12 sec	1.89M	0	382.63K	19
SELECT FirstName + <Value>LastName FFrom Perso...	4.69 sec	1.94 sec	19.11K	11	14.55K	38
SELECT P.Name, COALESCE(P.FirstName, ' ') AS F...	3.97 sec	3.58 sec	59.97K	19	155.44K	14
SELECT * FROM Sales.SalesOrderDetail WHERE Sales...	3.4 sec	1.8 sec	28.65K	1	132.16K	4
SELECT * FROM Sales.SalesOrderDetail WHERE Sales...	2.86 sec	1.21 sec	7.68K	2	16.31K	9
SELECT O.SalesOrderID, CustomerID, Freight FROM...	2.72 sec	2.12 sec	33.42K	10	4.52K	15
SELECT e.EmployeeID, NationalIDNumber, ContactID...	2.63 sec	1.51 sec	15.01K	122	441	5
SELECT ContactID, FirstName, LastName FROM Pers...	2.56 sec	953 ms	13.68K	49	586.21K	20
SELECT Sales.SalesOrderHeader.SalesOrderID FROM...	2.49 sec	538 ms	26.22K	0	11.74K	41
SELECT e.EmployeeID, NationalIDNumber, ContactID...	2.45 sec	1.66 sec	4.51K	0	124.24K	41
SELECT ContactID, FirstName, LastName FROM Pers...	2.02 sec	1.22 sec	34.78K	0	15.86K	11
SELECT SOD.SalesOrderID, P.ProductID, P.Name, SO...	2.01 sec	15.86K		23		4

Resource Consumption	
Duration	39.19 sec (24.4% of Workload)
CPU	1.84 min (54.1% of Workload)
Reads	2.17M (27.9% of Workload)
Writes	8 (2.1% of Workload)
Row Count	313.03K (5.7% of Workload)
Event Count	11 (1.2% of Workload)

To compare workloads...



Go back to start page



The screenshot shows the Qure Workload Analyzer application window. The title bar reads "Qure Workload Analyzer". The interface has a green header with the "QURE Workload Analyzer" logo and the "DBSophic" logo. Below the header, there are two tabs: "Start Page" (selected) and "Baseline". On the left side, there is a sidebar with several options: "New Workload Analysis...", "Compare Two Workloads...", "Open Workload Analysis" (with sub-options "From File..." and "From Database..."), and "Recent Workload Analyses". The "Recent Workload Analyses" list includes items like "AMI-VAIO.QWA_Demo.Baseline", ".Bursting_Traces.B2", ".Bursting_Traces.B1", "Demo", "AMI-VAIO.QWA_Demo.Evaluated", "QA04.QWA_1342.u-2", "AMI-VAIO.QWA_Demo_Traces.Evaluated", "AMI-VAIO.QWA_Demo_Traces.Baseline", "AMI-VAIO.TEST.aabbcc", "x3", "t2", "QA04.QWA_1342.u-1", "t1", "x2", "AllTypes", "AMI-VAIO.Bursting_Traces.b3", "x1", and "123". At the bottom of the sidebar, there is an "Open Demo Workload Analysis" button. The main content area has a heading "Welcome to Qure Workload Analyzer" and a paragraph of introductory text. A callout box with a purple border and a pointer to the "New Workload Analysis..." button contains the text: "Repeat the process to open 2nd workload".

Qure Workload Analyzer

Start Page Baseline

QURE Workload Analyzer

DBSophic

New Workload Analysis...

Compare Two Workloads...

Open Workload Analysis

From File... From Database...

Recent Workload Analyses

- AMI-VAIO.QWA_Demo.Baseline
- .Bursting_Traces.B2
- .Bursting_Traces.B1
- Demo
- AMI-VAIO.QWA_Demo.Evaluated
- QA04.QWA_1342.u-2
- AMI-VAIO.QWA_Demo_Traces.Evaluated
- AMI-VAIO.QWA_Demo_Traces.Baseline
- AMI-VAIO.TEST.aabbcc
- x3
- t2
- QA04.QWA_1342.u-1
- t1
- x2
- AllTypes
- AMI-VAIO.Bursting_Traces.b3
- x1
- 123

Open Demo Workload Analysis

Welcome to Qure Workload Analyzer

Repeat the process to open 2nd workload

When both workloads are open

Qure Workload Analyzer

Start Page | Baseline x | Evaluated x

Summary | Details | Compare to Baseline...

Evaluated Workload Summary [\(Show Details\)](#)

Analysis Information

Total Number of Events: 973
Location: Evaluated on AMI-VAIO,QWA_Demo

Workload Traces

Trace	Time Range	Event Count
[QWA_Demo].[dbo].[Evaluated]	Unknown	973

Resource Consumption Statistics

Overall Resource Consumption

Resource	Total	Average	Min	Max
Duration	2.98 min	184 ms	0 μs	5.66 sec
CPU	1.37 min	85 ms	0 μs	1.82 sec
Reads	3.63M	3.73K	3	201.15K
Writes	2	0	0	1
Row Count	6.85M	7.04K	0	170.78K

Top Consuming Batch Templates

Resource	Top Consumer	Event Count	Total	Average	More Information
Reads	SELECT Sales.SalesOrderHr	15	2.42M	161.64K	Show
Writes	SELECT [CustomerID],[INa	19	2	0.11	Show
CPU	SELECT * FROM Sales.Sale	16	24.46 sec	1.53 sec	Show
Duration	SELECT * FROM Sales.Sale	16	59.03 sec	3.69 sec	Show Batch Templates by Duration
Row Count	SELECT * FROM Sales.Sale	16	1.61M	100.8K	Show Batch Templates by Row Cou

Top Consuming Batch Instances

Resource	Top Consumer	Event Count	Total	Average	More Information
Writes	SELECT [CustomerID],[INa	5	2	0.4	Show Batch Instances by Writes
Reads	SELECT Sales.SalesOrderHr	2	381.17K	190.59K	Show Batch Instances by Reads
Duration	SELECT * FROM Sales.Sale	25	12.87 sec	514.68 ms	Show Batch Instances by Duration
Row Count	SELECT * FROM Sales.Sale	25	874.83K	34.99K	Show Batch Instances by Row Coun
CPU	SELECT * FROM Productio	21	5.65 sec	269 ms	Show Batch Instances by CPU

Compare Workloads...

Compare Evaluated to ...

Select the baseline workload for comparis

Baseline

Compare to Baseline Cancel

Select baseline workload

Dynamic comparison report

Qure Workload Analyzer

Start Page | Baseline x | Evaluated x | Evaluated vs. Baseline x

Comparison View

Group By: Batch Template, Batch Instance

Filter By: Add Filter

Comparison Mode:

- Include: All Event Groups, Matching Event Groups Only, Equalize Event Count to Baseline
- Resource Aggregation Mode: Total, Average
- Resource Columns Sort Mode: Largest to Smallest Difference (Absolute), Most Improved to Most Degraded

Batch Template	Duration	CPU	Reads	Writes	Row Count	Event Count
SELECT * FROM Sales.SalesOrderHeader WHERE Cust...	+59.03 sec	124.46 sec	+45.48K	Same	+1.61M	+16
SELECT Sales.SalesOrderHeader.SalesOrderID FROM S...	-46.23 sec	-2.11 min	-2.49M	-8	-98.84K	-4
SELECT * FROM Sales.SalesOrderHeader WHERE Due...	+32.71 sec	+7.31 sec	...	-2	+1.11M	+36
SELECT Sales.SalesOrderHeader.ShipToAddressID, Sal...	-9.13 sec	-6.08 sec	-55.16K	-3	-1.46M	-25
SELECT * FROM Production.Product	+8.32 sec	+5.65 sec	+112.6K	Same	+9.66K	+21
SELECT * FROM Sales.SalesOrderDetail WHERE UnitPri...	-5.8 sec	-3.57 sec	-70.55K	Same	-5.53K	-32
SELECT SOD.SalesOrderID, P.Name, SOD.OrderQty FR...	-4.87 sec	-5.55 sec	-129.63K	-6	-129.63K	-6
SELECT * FROM Sales.SalesOrderDetail WHERE SalesO...	+4.55 sec	+740 ms	+306.71K	+9	+306.71K	+9
SELECT SOD.SalesOrderID, P.Name, SOD.OrderQty FR...	-3.43 sec	-1.94 sec	-1.31M	Same	-261.29K	-13
SELECT P.FirstName + <value> LastName FROM Person...	-3.41 sec	-1.54 sec	-17.98K	-11	-310.03K	-15
SELECT P.Name, COUNT(*) FROM Production.Transact...	-3.19 sec	-3.12 sec	-58.31K	-19	-4.45K	-10
SELECT [CustomerID], [NationalIDNumber], [FirstNa...	+3.17 sec	+1.59 sec	+15.28K	+2	+9	+19
SELECT ContactID, FirstName, LastName FROM Perso...	-2.56 sec	-953 ms	-13.68K	-49	-441	-5
SELECT e.EmployeeID, NationalIDNumber, ContactID F...	-2.45 sec	-1.66 sec	-4.51K	Same	-11.74K	-41
SELECT Sales.SalesOrderHeader.SalesOrderID FROM Sa...	-2.33 sec	-1.81 sec	-127.03K	Same	Same	-1
SELECT SOD.SalesOrderID, P.Name, SOD.OrderQty FR...	+2.32 sec	+857 ms	+5.8K	Same	+271.57K	+13
SELECT SOD.SalesOrderID, P.ProductID, P.Name, SOD...	-1.91 sec	-1.39 sec	-15.66K	-11	+1	+1
SELECT SalesOrderID, OrderDate, <value> FROM Sale...	-1.6 sec	-1.21 sec	-40.41K	Same	-408	-20
SELECT ContactID, FirstName, LastName FROM Perso...	-1.57 sec	-1.16 sec	-34.16K	Same	-88.74K	-30
SELECT SalesOrderID, CustomerID FROM Sales.SalesO...	-1.52 sec	-1.39 sec	-21.06K	-10	+27K	+16
SELECT e.EmployeeID, NationalIDNumber, ContactID F...	-1.17 sec	-612 ms	-12.79K
SELECT CustomerID, SalesOrderID FROM Sales.SalesO...	+817.7...	+560 ms	+7.47K	Same	...	+6
SELECT * FROM [Purchasing].PurchaseOrderHeader s...	+742.8...	+74 ms	+314	Same	...	+6
SELECT e.EmployeeID, NationalIDNumber, ContactID F...	+612.078...	+533 ms	+638	Same	...	+12

Total Resource Consumption Differences of 9 Selected Groups

Resource	Change	Baseline	Evaluated
Duration	+35.14 sec (38%)	1.53 min	2.11 min
CPU	-1.81 min (67%)	2.67 min	51.73 sec
Reads	-3.76M (81%)	4.62M	852.13K
Writes	-53 (100%)	53	0
Row Count	+1.08M (29%)	3.73M	4.82M
Event Count	+2 (1%)	140	142

Annotations:

- Multi-level Grouping
- Dynamic Sorting
- Multiple Dynamic Filters
- Workload Equalization
- Multiple Selection Comparison

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