
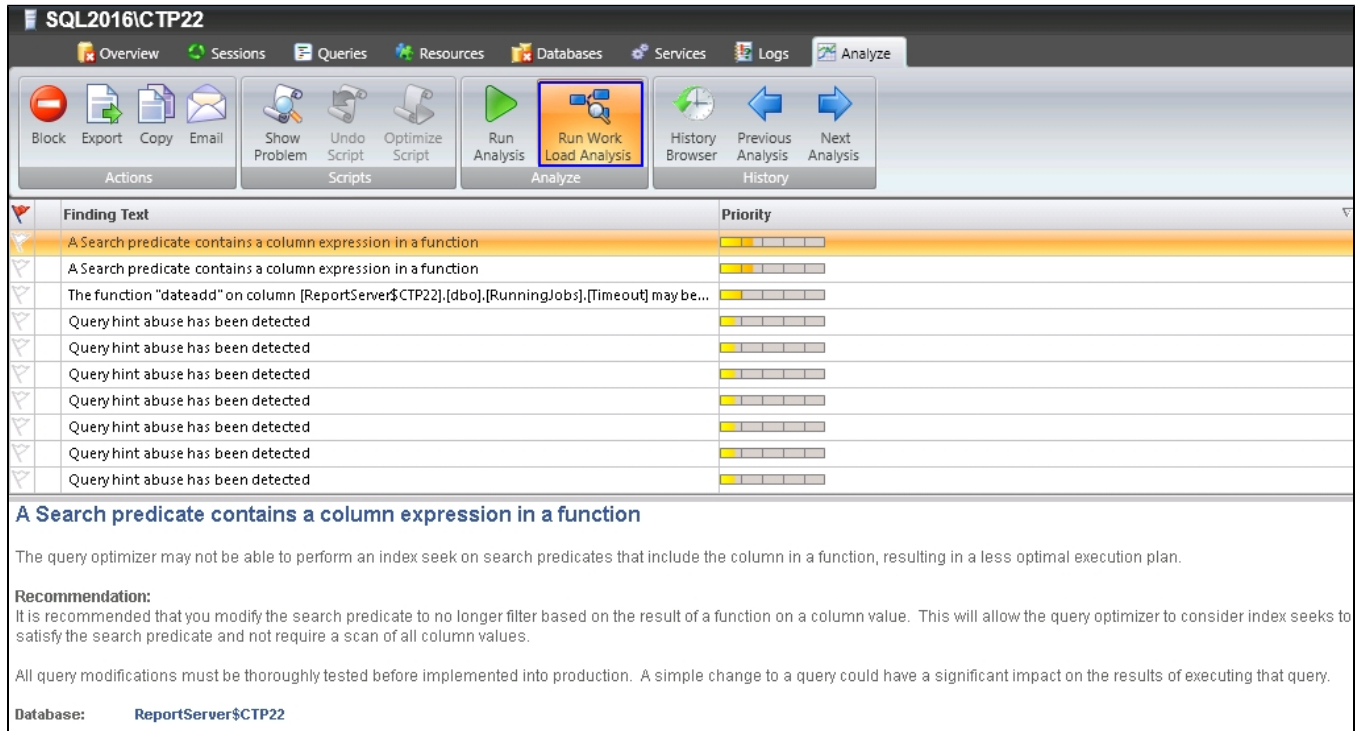


Run a workload analysis on your SQL Server

Workload Analysis targets the [Index Optimization](#) and [Query Optimization](#) performance categories. Workload analysis provides recommendations for these two categories which use a high amount of performance resources when running.

 You can also select the Index Optimization and Query Optimization performance categories when running a regular analysis. This analysis focuses on [lighter recommendations](#) compared to the heavier ones from workload analysis.



The screenshot shows the SQL Server Enterprise Manager interface for instance 'SQL2016\CTP22'. The 'Analyze' tab is selected, and the 'Run Workload Analysis' button is highlighted. Below the toolbar, a table of findings is displayed:

Finding Text	Priority
A Search predicate contains a column expression in a function	High
A Search predicate contains a column expression in a function	High
The function "dateadd" on column [ReportServer\$CTP22].[dbo].[RunningJobs].[Timeout] may be...	Medium
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low
Query hint abuse has been detected	Low

Below the table, the details for the first finding are shown:

A Search predicate contains a column expression in a function

The query optimizer may not be able to perform an index seek on search predicates that include the column in a function, resulting in a less optimal execution plan.

Recommendation:


It is recommended that you modify the search predicate to no longer filter based on the result of a function on a column value. This will allow the query optimizer to consider index seeks to satisfy the search predicate and not require a scan of all column values.


All query modifications must be thoroughly tested before implemented into production. A simple change to a query could have a significant impact on the results of executing that query.

Database: **ReportServer\$CTP22**

To run a workload analysis:

1. Right-click the appropriate SQL Server instance from the **Servers** tree and select **Properties**.
2. Select **Analysis Configuration** when SQL Diagnostic Manager displays the Monitored SQL Server Properties window.
3. [Configure your prescriptive analysis options](#).
4. Select *only* the Index Optimization and/or the Query Optimization performance categories.
5. Click **Run Workload Analysis** in the Analyze tab.
6. When the analysis is complete, SQL Diagnostic Manager provides a priority-ranked list of recommendations (Finding Text column).
7. Select a recommendation and detail information displays in the recommendation details pane.

 Do not click the **Scheduling Enabled** check box, unless you want to schedule a regular workload analysis on your SQL Server instance.

 To fine-tune your workload analysis results, you can block a particular recommendation or database. For additional information see, [Fine-tune your analysis](#).

Additional actions

Block

Block a particular recommendation or recommendations to fine-tune your analysis.

Export

Export your recommendations in .xls file format.

Copy

Copy your recommendations to the clipboard so that you can view the text in a text editor.

Email

Email your analysis results with recommendations.

SQL **Diagnostic Manager** identifies and resolves SQL Server performance problems before they happen. [Learn more](#) > >

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