IBM Cognos Dynamic Query Analyzer
Version 10.2.1.1

User Guide

IBM
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Introduction

IBM® Cognos® Dynamic Query Analyzer is a query visualization tool. With it you can visualize and troubleshoot the query logs generated when running dynamic query reports in IBM Cognos Business Intelligence. In addition, Cognos Dynamic Query Analyzer includes Aggregate Advisor, a tool that analyzes the performance and structure of dynamic cubes and provides suggestions for the creation of aggregates to improve cube performance.

Audience

This document is intended to help report administrators use Cognos Dynamic Query Analyzer to analyze reports and find performance bottlenecks in dynamic query reports.

In addition, modelers and administrators can use the Aggregate Advisor to optimize dynamic cubes.

Finding information

To find IBM Cognos product documentation on the web, including all translated documentation, access one of the IBM Cognos Information Centers (http://pic.dhe.ibm.com/infocenter/cogic/v1r0m0/index.jsp). Release Notes are published directly to Information Centers, and include links to the latest technotes and APARs.

You can also read PDF versions of the product release notes and installation guides directly from IBM Cognos product disks.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.

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Accessibility Features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products. IBM Cognos Dynamic Query Analyzer has accessibility features. For information about these features, see “Accessibility features in Cognos Dynamic Query Analyzer,” on page 15.
Chapter 1. What's new?

This section contains a list of new features for this release of IBM Cognos Dynamic Query Analyzer. It helps you plan your upgrade and application deployment strategies and the training requirements for your users.

For information about upgrading, see the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

For information about new features for this release, see the *IBM Cognos Business Intelligence New Features Guide*.

To review an up-to-date list of environments supported by IBM Cognos products, including information about operating systems, patches, browsers, Web servers, directory servers, database servers, and application servers, visit the Cognos Customer Center (http://www.ibm.com/software/data/cognos/customercenter/).

New features in 10.2.1.1

In version 10.2.1.1, various improvements to Aggregate Advisor are available.

**Aggregate Advisor separated from query log files**

Aggregate Advisor is now the main feature in IBM Cognos Dynamic Query Analyzer. Query log files are no longer shown by default. To view them, click *Window, Analyze logs*. For more information, see “Analyzing query log files” on page 6.

**New Aggregate Advisor general options**

There are now three query workload information options available when you run the Aggregate Advisor:

- Cube structure and query workload information
- Cube structure only
- Query workload information only

For more information, see “Optimize dynamic cube performance with Aggregate Advisor” on page 3.

**Improvements to Aggregate Advisor results**

By default, if there are previous results available, new Aggregate Advisor results are now shown at the top of the *Advisor results* view. Previously, new results were shown at the end of the *Advisor results* view.

You can now change the default title of a specific Aggregate Advisor result by using the *Set Description* option.

The name of the *Clear Aggregate Advisor Results* option has changed to *Delete Aggregate Advisor Results*. 
The Aggregate Advisor result **Sort** option now contains more sort options. By default, results are now sorted by time in descending order. Previously, results were sorted by time in ascending order.

In-database recommendations, in-memory recommendations, and messages are now shown in a single window rather than under separate headings in the **Advisor results** view.

You can now select individual in-memory recommendations from a specific Aggregate Advisor result to apply to the content store. Previously, you were required to save all in-memory recommendations.

For more information about these improvements, see “Processing the Aggregate Advisor results” on page 5.

**New features in 10.2.1**

See the following topics for new features since the last release. Links to directly related topics are included.

**HTTPS Support**

You now have the ability to run the Aggregate Advisor with a IBM Cognos BI environment that has been configured for SSL. For more information, see the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

**New features in 10.2.0**

See the following topics for new features since the last release. Links to directly related topics are included.

**Aggregate Advisor**

Aggregate Advisor is a tool that analyzes the performance and structure of dynamic cubes and provides suggestions for the creation of aggregates to improve cube performance. For more information, see “Optimize dynamic cube performance with Aggregate Advisor” on page 3.

For information about dynamic cubes and aggregates, see the *IBM Cognos Dynamic Cubes User Guide*.

**DQM server logging on a report basis**

You can now enable DQM server logging in IBM Cognos Dynamic Query Analyzer. Server logs are generated only for reports that are run in Dynamic Query Analyzer. Previously, trace logging had to be enabled for all reports run on the IBM Cognos Business Intelligence server. For more information, see “DQM server logs” on page 10.
Chapter 2. Getting started with Cognos Dynamic Query Analyzer

IBM Cognos Dynamic Query Analyzer is a tool that provides graphical representations for the query logs produced by dynamic query mode queries. In addition, Cognos Dynamic Query Analyzer has Aggregate Advisor, a tool that analyzes dynamic cubes and suggests aggregates that, when implemented, improve cube performance.

**Important:** You must configure Cognos Dynamic Query Analyzer before you can access the content store and query logs of your IBM Cognos Business Intelligence server. For configuration instructions, see the [IBM Cognos Dynamic Query Analyzer Installation and Configuration Guide](#).

Cognos Dynamic Query Analyzer

IBM Cognos Dynamic Query Analyzer includes an Eclipse-based client user interface. Data is presented in a series of visual components called views. You can perform operations on the data contained in the active view. The results of these operations affect the content of other views, or cause new views to be opened automatically.

Views are contained within tab groups.

A tab group contains **Minimize** and **Maximize** buttons and can also contain buttons required by the currently active view. A tab group can be resized by dragging the side next to another tab group.

When a view is opened, it is displayed in the same location where it was last opened, unless it is being opened for the first time, in which case it is opened in a default location. A view can be moved from one tab group to another, or detached as a separate window.

To move a view to a different tab group, drag the title bar to the new tab group, and release it. To detach a view as a new window, right-click the title bar, and click **Detached**. To drag an entire tab group to a new location, right-click the title bar, and click **Move, Tab Group**.

Optimize dynamic cube performance with Aggregate Advisor

Aggregate Advisor can analyze dynamic cubes and suggest aggregates that, when implemented, will improve cube performance. Aggregate Advisor can also analyze previously run reports and suggest aggregates that correspond directly to these reports.

Aggregate Advisor makes two types of recommendations.

- **In-Memory Recommendations** are aggregate recommendations that can be applied by the IBM Cognos Business Intelligence server the next time the cube is started. These aggregates are stored in the Content Store.
- **In-Database Recommendations** are aggregate recommendations that a database administrator can create and apply to the database. After the database has been
updated, a modeler must model an aggregate cube for each created aggregate table in the database and redeploy the dynamic cube to the Content Store.

Aggregate Advisor will create in-memory aggregate recommendations estimated to fit within the selected size limit for in-memory aggregates. It can also create in-database aggregate recommendations estimated to fit within the selected size limit for in-database aggregates.

When you run Aggregate Advisor, the following options are available.

**Table 1. Aggregate Advisor general options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Query Workload Information</strong></td>
<td>Select Cube structure and query workload information to request Aggregate Advisor to consider information from the cube structure and workload logs when making recommendations.</td>
</tr>
<tr>
<td></td>
<td>Select Cube structure only to request Aggregate Advisor to consider information from the cube structure only when making recommendations.</td>
</tr>
<tr>
<td></td>
<td>Select Query workload information only to request Aggregate Advisor to consider information from workload logs only when making recommendations.</td>
</tr>
<tr>
<td>In-memory aggregates</td>
<td>If selected, Aggregate Advisor makes aggregate recommendations that can be applied by the Cognos BI server when the dynamic cube is restarted. A size limit for in-memory aggregates can also be supplied.</td>
</tr>
<tr>
<td>In-database aggregates</td>
<td>If selected, Aggregate Advisor makes aggregate recommendations that can be applied by a database administrator. A size limit for in-database aggregates can also be supplied. The size limit for in-database aggregate recommendations refers to the uncompressed size of the database.</td>
</tr>
<tr>
<td>Advisor run time limit</td>
<td>If selected, Aggregate Advisor will end after the specified time and return the aggregate recommendations made at that time. If no recommendations are yet available, Aggregate Advisor continues to run until it has an initial set of recommendations and finishes.</td>
</tr>
</tbody>
</table>

**Table 2. Aggregate Advisor filter workload options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Only consider the workload information that relates to any of the following</td>
<td>If any conditions are selected, workload information is used only from reports that satisfy the selected conditions. If more than one condition is selected, workload information from reports that satisfy any of the selected conditions is used.</td>
</tr>
<tr>
<td>And only consider workload information for the following periods</td>
<td>If any condition other than All is selected, only workload information from reports run in the specified time periods is used.</td>
</tr>
</tbody>
</table>

For more information about aggregates and how their use can improve the performance of dynamic cubes, see the IBM Cognos Dynamic Cubes User Guide.
Running Aggregate Advisor

You can run Aggregate Advisor in IBM Cognos Dynamic Query Analyzer to generate aggregate recommendations for a dynamic cube.

Procedure

1. Run a series of reports that are a representative workload against the dynamic cube. This step is optional. If you are designing a dynamic cube, you may wish to run the Aggregate Advisor without using workload information.
   a. Enable workload logging for the dynamic cube. For instructions, see the topic on dynamic cube configuration settings in the *IBM Cognos Dynamic Cubes User Guide*.
   b. Run a series of reports that are a representative workload against the dynamic cube to gather data about the report execution characteristics.
   c. Optionally, disable workload logging after the reports are run.

2. In Cognos Dynamic Query Analyzer, click **File**, Run Aggregate Advisor.
   a. In the **Select the cube** screen, select the cube to run in Aggregate Advisor.
   b. In the **Specify general options** screen, specify the general options described in [Table 1 on page 4](#).
   c. If you selected **Query Workload Information** on the **Specify general options** screen, you can specify **filtering options** on the **Filter Workload Information** screen described in [Table 2 on page 4](#). If you specify filters, only workload data that relates to the specified reports, packages, and users, and that falls within the specified time period, are considered when making aggregate recommendations.

   Filters are not available if you select the **Cube structure only** option.

While Aggregate Advisor runs, a graph displays progress as a function of time. The **Details** tab displays the same information as text. Click the **Run in Background** button to dismiss the progress display and continue to run the Aggregate Advisor in the background. You can end the Aggregate Advisor run and receive the recommendations made so far by clicking the **End** button. Click the **Cancel** button to end the run without receiving any recommendations.

When the slope of the graph starts to level out, further recommendations will not have much impact and the Aggregate Advisor run can be ended.

When Aggregate Advisor finishes, the **Advisor results** view displays a summary of Aggregate Advisor recommendations. For more information on the recommendations, see "Processing the Aggregate Advisor results."

Processing the Aggregate Advisor results

When Aggregate Advisor finishes, the **Advisor results** view displays a summary of Aggregate Advisor recommendations.

Procedure

1. Double click an item in the **Advisor results** view for the detailed results.

   If there are previous Aggregate Advisor results, new results are shown at the top of the list by default. To change the order in which Aggregate Advisor results are shown, click **View Menu**, Sort in the **Advisor results** view. Select the required items on which to sort, and sort direction, and then click **OK**.
By default, the title consists of the cube name that is appended with a time
stamp. To change the title of a specific result, click View Menu, Set
Description in the Advisor results view. Type the new title and then click OK.
To delete results, click View Menu, Delete Aggregate Advisor Results in the
Advisor results view. Select the results to delete, and then click OK.
A tabbed pane is displayed with more detail about the Aggregate Advisor
results. The General tab contains a summary of the Aggregate Advisor results.
The In-database tab describes the in-database recommendations in detail. The
Options tab lists the options that are used for the Aggregate Advisor wizard run.

2. To clear previously applied in-memory recommendations, click File, Clear
In-Memory Recommendations, and select the required cube.
Previously applied in-memory recommendations can be applied again later.

3. To save in-memory recommendations, click File, Apply Selected In-Memory
Recommendations, and select which recommendations to apply. The selected
recommendations are automatically applied when the dynamic cube is
restarted.
If you apply only a subset of the recommendations, a new result is added to
the Advisor results view with the title “Saved to Server” followed by the cube
name that is appended with a time stamp. This special result consists of only
the General tab, which lists the subset of applied recommendations.

4. To save the in-database recommendations, click File, Save In-Database
Recommendations, and select where to save the recommendations. This file
contains the information that is displayed in the In-database tab. The database
administrator creates the aggregate tables, and the modeler models the
aggregate cube for the in-database aggregate and redeploy the dynamic cube.

What to do next

If there are both in-memory and in-database recommendations, to get optimal
in-memory load performance, create database aggregate tables and define
aggregates cubes before saving in-memory aggregates and enabling the aggregate
cache for the cube. Following this sequence of steps allows in-memory load queries
to benefit from the coverage in-database aggregates can provide.

Analyzing query log files

You can view and analyze query log files in IBM Cognos Dynamic Query
Analyzer. The graphical representation of the log files allows you to see
performance bottlenecks.

Procedure
1. Run a report that uses dynamic query mode.
2. In Cognos Dynamic Query Analyzer, click Window, Analyze Logs.
3. Open the query log files.
4. Explore the query log files to find performance bottlenecks.

Running a report that uses dynamic query mode

You can run a report using the IBM Cognos Business Intelligence web interface, or
you can run it using IBM Cognos Dynamic Query Analyzer.
Before you begin

Before running the report, the query execution trace option of Query Service must be enabled. This option can be enabled in either of two ways.

- Your administrator can enable the query execution trace option in IBM Cognos Administration. This option is enabled for all reports run either through the Cognos BI web interface or through Cognos Dynamic Query Analyzer. For more information, see the topic on Query Service administration in the IBM Cognos Business Intelligence Administration and Security Guide.

- You can enable query execution trace for reports run through Cognos Dynamic Query Analyzer. To enable this option, click **Window, Preferences**. On the **General** tab, check **query execution trace**. If logging is enabled through Cognos Dynamic Query Analyzer, the system administrator does not need to enable it on a server-wide basis.

If you are running reports through Cognos Dynamic Query Analyzer, the versions of Cognos Dynamic Query Analyzer and the Cognos BI server must be the same. Otherwise, the report may not run.

Procedure

Run a report that uses dynamic query in one of the following ways.

- Use any of the methods available through the Cognos BI web interface. For more information, see the IBM Cognos Report Studio User Guide.

- In Cognos Dynamic Query Analyzer, navigate to the report in the **Content Store** view. Right-click the report, and click **Run Report**. You cannot set prompts for a report when you run it using Cognos Dynamic Query Analyzer.

Results

You can now open and analyze the log files in Cognos Dynamic Query Analyzer.

Opening query log files

When you run a report, query log files are created if the **query execution trace** option is enabled. Log files are XML files that capture the native MDX queries executed during a report run, along with execution and waiting time metrics for query constructs.

The query log files are contained in a folder named `<time-stamp>_<report_name>` inside the XQE logs folder. This folder contains one or more profile files named profilingLog-0.xml, profilingLog-1.xml, and so on. If the report execution requires executing subqueries, there is a subfolder named subqueries that contains folders with profile files for each subquery.

After a report is run, you can open the query log files in IBM Cognos Dynamic Query Analyzer. You can browse and open log files using any of three methods.

Opening query log files from the Content Store view

You can use the **Content Store** view to browse and open query log files.

Procedure

1. If the **Content Store** view is not open, click **Window, Show View** and select the **Content Store** view.
2. In the **Content Store** view, navigate to the required report and click the arrow next to it. The report entry expands to display the profile log files and subquery folders for the report.

3. Double-click a profile entry to open the file, or click the arrow next to a subquery folder, and double-click a profile entry to open the file.

**Results**

For each open query log file, a graph displays the profile file. **Summary**, **Query**, and **Properties** views displaying data related to the active graph also open.

**Opening query log files from the File menu**

You can browse and open query log files using the **File** menu.

**Procedure**

1. Click **File**, **Open log**.

2. You can browse query log files in the following ways.
   - Select **Previously opened** to see a list of log files that were previously opened and locally cached by IBM Cognos Dynamic Query Analyzer.
   - Select **From directory** to see a list of log files accessible from a file location.
   - Select **From URL** to see a list of log files accessible using the http:// or file:// web browser protocol.

3. Click the arrow next to a report folder to display the profile log files and subquery folders for the report.
   - Select the check box next to a profile log file to open that query log.
   - Select the check box next to a report folder to open all query log files contained in the folder.
   - Select multiple check boxes to open multiple query log files.

Opening many query log files at the same time can cause an out-of-memory error in Cognos Dynamic Query Analyzer.

**Results**

For each open query log file, a graph displays the profile file. **Summary**, **Query**, and **Properties** views displaying data related to the active graph also open.

**Opening query log files from the Report Logs view**

You can use the **Report Logs** view to browse and open query log files.

**Procedure**

1. If the **Report Logs** view is not open, click **Window**, **Show View** and select the **Report Logs** view.

2. In the **Report Logs** view, click the arrow next to the required report. The report entry expands to display the profile log files and subquery folders for the report.

3. Double-click a profile entry to open the file, or click the arrow next to a subquery folder, and double-click a profile entry to open the file.

**Results**

For each open query log file, a graph displays the profile file. **Summary**, **Query**, and **Properties** views displaying data related to the active graph also open.
Exploring query log files

When you open query log files in IBM Cognos Dynamic Query Analyzer, you can view and analyze the data in a number of ways.

Graph

The graph that is displayed when a query log file is opened shows a series of linked nodes. Each node represents an operation that occurred when the report was run or represents an attribute of an operation (such as the data being processed). The meaning of the different node representations is defined in the following table.

Table 3. Node representations

<table>
<thead>
<tr>
<th>Node</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Node1364" /></td>
<td>Represents an operation that occurred when the report was run.</td>
</tr>
<tr>
<td><img src="image2" alt="Node1MdxText" /></td>
<td>Represents an attribute of an operation, such as the data being processed. By default, most of these nodes are suppressed in the graph. To display all of them, click Window, Preferences, and select Visualization, Node filtering.</td>
</tr>
<tr>
<td><img src="image3" alt="Node2529" /></td>
<td>Represents a collapsed node. To display the hidden nodes, double-click the node, or right-click it and click Show Subtree.</td>
</tr>
<tr>
<td><img src="image4" alt="Node3580" /></td>
<td>Represents a node that contains hidden children due to the Node filtering settings. To display the hidden nodes, right-click the node and click Expand Filtered.</td>
</tr>
<tr>
<td><img src="image5" alt="Node2529" /></td>
<td>Represents the node that is currently selected. The properties of this node are displayed in the Properties view. You can select a node by clicking it.</td>
</tr>
<tr>
<td><img src="image6" alt="Node82" /></td>
<td>Represents a node that has subqueries that can be opened in another graph. To display the subquery graphs, right-click the node and click Open sub queries. Some subqueries do not have an associated node in the parent trace and can be opened using this option.</td>
</tr>
<tr>
<td><img src="image7" alt="Node2990" /></td>
<td>Represents timing information for the node. The color red represents the time for the report spent in the node. The color yellow represents the proportion of time spent in the children of the node. The color gray represents the time spent outside the node and its children. If the node is selected, the times are also displayed in the Properties view.</td>
</tr>
</tbody>
</table>

Summary view

The Summary view provides information about the active graph.
The Summary section displays the name, package, and timestamp of the query. It also indicates whether the data source type is relational, OLAP, or DMR (Dimensionally Modeled Relational).

The Timing section displays timing information. It displays the working times and waiting times for each node that has timing information attached to it, in descending time order. If you click any node, the corresponding node in the graph is selected. Timing information for a query is not displayed if all the timing information is contained in subqueries.

The Analysis section shows information if the query planning trace option is enabled.

The Node Shapes and Colors section provides the meaning of node shapes and colors.

**Query view**

The Query view shows the MDX or SQL query used in this report.

You can link MDX commands in the Query view with nodes in the graph by using the Link MDX to graph icon. If you select an MDX command in the Query view and click the Link MDX to graph icon, the nodes in the graph where the MDX commands are executed are selected.

If the query is a SQL query, you can run the report again by clicking the Execute Sql query icon.

**Properties view**

The Properties view displays the properties for the currently selected graph node.

**Navigation view**

The Navigation view displays the graph as a tree structure. To open the Navigation view for the active graph, click File, Show in Navigation. You can have multiple Navigation views open, one for each graph.

To navigate quickly between a Navigation view and the corresponding graph, click the Link with editor icon. Clicking an item in the Navigation view selects the corresponding node in the graph, and vice versa.

**DQM server logs**

The DQM Server Logs view displays the dynamic query mode server logs. These logs contain information about the state of the query server. If you use SAP data sources these logs will log calls to the data sources. Dynamic cube logging information is also shown when cubes are started.

You can enable dynamic query mode server logs for reports run in IBM Cognos Dynamic Query Analyzer by enabling Dynamic query logging in the General tab of Preferences. To view server log entries for an active report, click File, Show in Server Log.
Server logs are organized by server session. Click the arrow next to a server session to see detailed logging information.
Chapter 3. Troubleshooting Cognos Dynamic Query Analyzer

This section provides information about potential problems you might encounter when using IBM Cognos Dynamic Query Analyzer and provides solutions and workarounds.

For troubleshooting information that is not specific to Cognos Dynamic Query Analyzer, see the Troubleshooting section of the IBM Cognos Business Intelligence Administration and Security Guide. You can also refer to component-specific documents.

Unable to access query log files

If you are unable to access query log files stored on your IBM Cognos Business intelligence server, your server administrator might not have created a virtual directory for the log files location.

Create a virtual directory to access log files as described in the IBM Cognos Dynamic Query Analyzer Installation and Configuration Guide.
Appendix. Accessibility features in Cognos Dynamic Query Analyzer

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products.

The major accessibility features are accelerators and command keys that you can use to navigate through IBM Cognos Dynamic Query Analyzer. You can also use keyboard shortcuts to move among graphs and views.

- You can use command keys, or shortcut keys, to navigate through Cognos Dynamic Query Analyzer. Shortcut keys directly trigger an action and usually make use of the Ctrl keys.
- Graphs use color to display timing information. However, if you select a node, timing information is also displayed in the Properties view.
- The Details tab of the Aggregate Advisor progress indicator displays the advisor progress as text.
- Colors and fonts used by Cognos Dynamic Query Analyzer can be modified on the Colors and Fonts tab of the Preferences window.

Keyboard shortcuts

This product uses the following keyboard shortcuts.

*Table 4. Keyboard shortcuts for Cognos Dynamic Query Analyzer*

<table>
<thead>
<tr>
<th>Action</th>
<th>Keyboard shortcuts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display the list of open graphs.</td>
<td>Ctrl+F6</td>
</tr>
<tr>
<td>Display the list of supporting views for the active graph.</td>
<td>Ctrl+F7</td>
</tr>
<tr>
<td>Traverse nodes in graphs and in the Navigation view.</td>
<td>Arrow keys</td>
</tr>
<tr>
<td>Cycle through a list of graphs or views.</td>
<td>Arrow keys</td>
</tr>
<tr>
<td>Cycle through global toolbar commands and toolbar commands for the active view.</td>
<td>Tab key</td>
</tr>
<tr>
<td>Open the context-sensitive menu for a view or graph.</td>
<td>Alt+-</td>
</tr>
<tr>
<td>Open the context-sensitive menu for a node.</td>
<td>Shift+F10</td>
</tr>
</tbody>
</table>

IBM and accessibility

For more information about the commitment that IBM has to accessibility, see the IBM Accessibility Center [http://www.ibm.com/able].
Notices

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