Quest® SQL Optimizer for DB2 LUW 4.0

Installation Guide
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SQL Optimizer for DB2 LUW 4.0
Installation Guide
August 2010
Installation

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- Installation Requirements
- Install or Upgrade SQL Optimizer
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Installation Requirements

Before beginning installation, review this section to ensure that the system requirements are met.

Hardware Requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>486 MHZ minimum</td>
</tr>
<tr>
<td>Disk Space</td>
<td>50 MB of disk space for installation</td>
</tr>
<tr>
<td>Memory</td>
<td>256 MB of RAM minimum; 512 MB of RAM recommended</td>
</tr>
<tr>
<td></td>
<td>Note: The memory required may vary based on Applications that are running on your local computer.</td>
</tr>
<tr>
<td>Monitor</td>
<td>SVGA with a minimum resolution of 800x600, 1024x768 recommended</td>
</tr>
</tbody>
</table>

Software Requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Microsoft Windows 2000</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows 2003 (32-bit and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows XP Professional (32-bit and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Vista (32-bit and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows 2008 (32-bit and 64-bit)</td>
</tr>
<tr>
<td></td>
<td>Windows 7 (32-bit and 64-bit)</td>
</tr>
<tr>
<td>Browser</td>
<td>Microsoft Internet Explorer 6.0 or later</td>
</tr>
<tr>
<td>PDF Viewer</td>
<td>Adobe Acrobat Reader 7.0 or later (for viewing the Installation Guide)</td>
</tr>
</tbody>
</table>
Install or Upgrade SQL Optimizer

To install or upgrade SQL Optimizer

1. Run the SQL Optimizer installation program from the CD or the download file.
2. In the Welcome window, click Next.
3. In the License Agreement window, review the license.
4. Select I accept the agreement. Click Next.
5. In the Select the Products to Install window, select Quest SQL Optimizer for DB2 LUW.
6. To allow other users to use SQL Optimizer, select Install for everyone.
7. Click Next.
8. In the Summary and Confirmation window, click Install.
9. Click Finish.

Silent Install of SQL Optimizer

To silently install SQL Optimizer, use this command

- msiexec /i "path to msi file\QuestSQLOptimzer_DB2LUW_4.0.msi" /qn

where

/i = install
/qn = quiet, no UI
To install it in a directory different from the default product directory, use this command

- msiexec /i "path to msi file\QuestSQLOptimzer_DB2LUW_4.0.msi" /qn
  TARGETDIR="InstallDir"

**Uninstall SQL Optimizer**

To uninstall from Windows Add or Remove Programs

1. Select **Start** | **Control Panel**.
2. Select **Add or Remove Programs**.
3. Select **Quest SQL Optimizer for DB2 LUW**.
4. Click the **Change/Remove** button.
5. Follow the directions on the screen.

To uninstall from the Quest Installer

1. Select **Start** | **All Programs** | **Quest Software** | **Quest Installer** | **Quest Installer**.
2. Select **Uninstall a product**. Click **Next**.
3. Select **Quest SQL Optimizer for DB2 LUW**. Click **Next**.
4. Review the product selection. Click **Uninstall**.
5. Click **Finish**.

**Register SQL Optimizer**

To register the trial or production key

1. In SQL Optimizer, select **Help** | **Licensing**.
2. Enter your **authorization key**.
3 For a production key, enter your *site message*.

4 Click **Apply**.

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**Note**
Enter the license key for each user log-on on the computer.

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**Tip**
Access the Licensing window any time to review current license information in the License Details pane.
Configuration

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Access SQL Optimizer
Configure SQL Optimizer
Troubleshoot SQL Optimizer
Access SQL Optimizer

To run SQL Optimizer

- Select Start | All Programs | Quest Software | Quest SQL Optimizer for DB2 LUW | Quest SQL Optimizer for DB2 LUW.

Configure SQL Optimizer

Database requirements

SQL Optimizer supports DB2 LUW EE/EEE versions 6.x, 7.x, ESE 8.x on Distributed Platforms and 9.x on UNIX (AIX, Solaris, HP-UX, Linux), OS/2, and Windows.

Privileges

Most of the functionality in SQL Optimizer does not need any special privilege for the user. When logging on to SQL Optimizer, if you do not satisfy the logon privileges below, you are presented with a Connection Information window that details the functionality in SQL Optimizer which needs the privilege and therefore may be limited if the user logon is not granted the privilege.

Temporary Table Generation

To create or modify temporary tables in User-Defined Temp Table, Scanner Temp Table, Trigger Conversion, and temporary table generation while optimizing the source SQL statement, the logon user needs the following privileges:

- Connection to DB2 LUW 7 or above
- USE privilege on the USER TEMPORARY table space or SYSADM or DBADM authority
Index Expert Feature

The Index Expert feature requires DB2 LUW version 8 or later to generate the index-set alternatives. Additionally, it requires functionality available in version 7 or later to simulate indexes and retrieve the index recommendations from DB2 LUW.

- Version 6 does not work with the Index Expert feature
- Version 7 or later is needed to use the Simulate Indexes function
- Version 8 or later is needed to use the Generate Indexes function

SQL Optimizer Module

In the Access Plan page of the SQL Optimizer window, you can update the table and index statistics. In order to update statistics, you must have one of these privileges:

- SYSADM
- SYSCTRL
- SYSMAINT
- DBADM
- CONTROL privilege on the table
- LOAD authority

Troubleshoot SQL Optimizer

"Failed to connect to DB2 LUW"

Check that other DB2 products (for example, Command Center) connect successfully to the database with the same login name, password and database alias. If connection fails, check with your database administrator.

No Index Recommendations from DB2 LUW

If the Generate Indexes function does not provide indexes recommended by DB2 LUW, perhaps the MEM_UDF heap size is not set large enough. Refer to the IBM documentation to increase the size of UDF Shared Memory in DB2 LUW to 1024 or higher.
"Failed to initialize the application"

When running SQL Optimizer on a Windows platform, you might encounter a "Failed to initialize the application" error message. This error message indicates that either the current user does not have certain permissions within the Windows Registry or that the Registry path does not exists.

The Permission of the Registry is as follows:

(F - Full Control, R - Only Read permission is needed)

HKEY_CURRENT_USER (F)
|_Software (F)
|____Quest Software (F)
| |____Quest SQL Optimizer for DB2 LUW (F)
| | |____Current Version (F)
| | |___Connections (F)
| | |___Preferences (F)

(HKEY_LOCAL_MACHINE (R)
|_SOFTWARE (R)
|___Quest Software (R)
| |___Quest SQL Optimizer for DB2 UDB (R)
| | |___Current Version (R)

|___IBM (R)
|____|____DB2 (R)
Appendix: Contact Quest

Contact Quest Support

Quest Support is available to customers who have a trial version of a Quest product or who have purchased a Quest product and have a valid maintenance contract. Quest Support provides unlimited 24x7 access to SupportLink, our self-service portal. Visit SupportLink at: http://support.quest.com.

With SupportLink, you can do the following:

- Retrieve thousands of from our online Knowledgebase
- Download the latest releases and service packs
- Create, update, and review Support cases

View the *Global Support Guide* for a detailed explanation of support programs, online services, contact information, and policy and procedures. The guide is available at: http://support.quest.com.

**Note** This document is only available in English.
Contact Quest Software

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