



Quest Central for DB2

Version 4.8.1

Release Notes

Revised: August 2005

These release notes contain information about Quest Central for DB2. For information about installing Quest Central for DB2, version 4.8.1 and for overviews of Quest Central components, refer to the following document:

- **Quest Central for DB2 Installation Guide**

You can view the complete library of product documentation at the following location:

http://www.quest.com/quest_central_for_DB2/index.asp

For detailed procedures about using Quest Central, refer to the Quest Central for DB2 online help.

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Overview

Quest Central for DB2 provides today's DBA with powerful and comprehensive database management tools that are integrated and modular. Each offers distinct functionality that focuses on critical aspects of DB2 database management.

What's New in this Release

Version 4.8.1 of Quest Central for DB2 allows side-by-side installation with any Quest Central for Oracle, SQL Server, and Sybase versions or previous standalone versions of Quest Central for DB2. For information about installing Quest Central for DB2, version 4.8.1, refer to the Quest Central for DB2 Installation Guide. This release also includes improvements to performance and features faster product launch time and quicker Browser refresh rates.

Quest Central for DB2 includes the latest Knowledge Expert for DB2 V6.2.1.

These Release Notes specify the latest requirements for running Quest Central for DB2 and describe corrected customer issues, other known issues and workarounds having to do with installation, help files, and operating system platforms.

System Requirements

Verify that your system meets the following minimum requirements.

Client Requirements

- Windows 2000 or XP
- 512 MB RAM
- 300 MB disk space
- DB2 UDB, version 7.1 Runtime Client, or higher
NOTE: Quest Central for DB2 requires a DB2 UDB, version 8.1 Runtime Client when running against a DB2 UDB, version 8.1 64-bit server.
- IBM DB2 Connect, version 7.1, or higher (required for z/OS support)

Database Support

- DB2 UDB, version, 7.1 or 7.2 (32-bit) for Linux, UNIX, and Windows
Performance Diagnostics and SQL Analysis require DB2 UDB, version 7.2 with FixPak 8 applied.
- DB2 UDB, version 8.1 (64-bit) for Linux, UNIX, and Windows
Performance Diagnostics and SQL Analysis require DB2 UDB, version 8.1 with FixPak 1 applied.
- DB2 UDB on OS/390, version 7.1 or 8.1 (in compatibility mode only) for z/OS and OS/390

Quest Central for DB2 Agent Requirements (optional)

- Windows 2000 or XP
- Sun Solaris 7, 8, or 9
- IBM AIX 4.3, 5.1, 5.2 or 5.3
- IBM z/OS, version 1.4 or higher
- SUSE Linux Enterprise Server 8 for IBM mainframes and Intel x86

- Red Hat Enterprise Linux AS 2.1 and 3.0 for Intel X86

NOTE: You must install the `compat-libstdc++-7.3-2.96.122.i386.rpm` compatibility library. You will find this package on the RedHat Advanced Server 3.0 installation CDs.

Refer to the *Quest Central for DB2 Installation Guide* for more detailed system requirement information, including recommended DB2 maintenance levels.

NOTE: If you are interested in managing DB2 UDB, version 6 databases on Linux, UNIX, or Windows, you can download Quest Central for DB2, version 2.1 from the Quest web site, <http://www.quest.com>.

Before You Install Quest Central for DB2

Before you begin the Quest Central for DB2 installation on a machine, make sure you close Knowledge Xpert on that machine. Even if you did not select Knowledge Xpert as a component to be included in this installation, running it during installation causes the installation to fail.

Installing Quest Central for DB2

If you have Version 4.8 of the Quest Central for DB2 client already installed on your machine, do a maintenance installation for Version 4.8.1. To do so, follow the "Installation maintenance" instructions in the "Installing Quest Central on the Client Machine" chapter in the "Quest Central for DB2 Installation Guide."

If you have a pre-4.8 version of Quest Central for DB2 client installed on your machine (or you want to install the client for the first time), perform a new installation for Version 4.8. To do so, follow the instructions in the "Installing Quest Central on the Client Machine" chapter in the "Quest Central for DB2 Installation Guide."

DB2 UDB Version 8/Version 7 Compatibility Issues

Quest Central for DB2, version 4.8.1 cannot operate properly in an environment in which a DB2 UDB, version 8 Runtime Client is run against DB2 UDB, version 7 instances. Refer to your IBM *DB2 UDB V8.1 Release Notes, Part I, Back-Level Server Support* for a complete list of inter-version incompatibility issues.

Quest Central for DB2, version 4.8.1 operates properly in these environments:

- A DB2 UDB, version 7 client is run against version 7 instances.
- A DB2 UDB, version 8 client is run against version 8 instances.
- A DB2 UDB, version 7 client is run against version 8 instances, under these circumstances:

SQL Analysis

SQL Analysis does not support the collection of SQL on a DB2 UDB, version 8 database when you are using a DB2 UDB, version 7 SQL Analysis Repository. The repository must be a DB2 UDB, version 8 database. When SQL Analysis attempts to run a SQL collection in this unsupported configuration, SQL Analysis shuts down and displays the following message:

```
SQC70353E SQL Analysis agent was unable to start a SQL
Analysis collection. SQL Analysis agent found the managed
database incompatible versions 'version number' and
'version number' respectively. Please migrate the
repository database to a DB2 version compatible with the
managed database or use the SQL Analysis Repository Manager
to select a repository database with a DB2 version
compatible with the managed database.
```

Database Administration

- Running a DB2 UDB, version 7 client against a DB2 UDB EEE, version 8 instance can cause the Tablespace, Database, and Database Configuration windows to not open as expected. This situation can also cause -1198 SQL codes to occur.
- Running a DB2 UDB, version 8 client against a version 7 instance causes unpredictable behavior when you open windows from pop-up menus for existing objects:
 - The Index, Procedure, Table, Trigger, Function, and View windows do not open, and they return the SQL035IN message.
 - The Tablespace, Database Configuration, and Instance Configuration windows do not open, and they return the SQL165IN message.
 - The Database window does not open, and it returns the DBA00011E message, which indicates that the database information could not be retrieved.

Space Management

Running a DB2 UDB, version 8 client against a version 7 instance causes unpredictable behavior when you open windows from right-click menus for existing objects:

- The Rebuild Index window does not open, and it returns a SQL035IN message.
- The Table Load and Reorg windows do not open, and they return the SQL165IN message.

Performance Diagnostics

- A version mismatch message appears on the instance-level home page, under **Instance Identification**.
- External storage, all database configuration parameters, and all data retrieved from those parameters (including the database/node home page **Page Cleaners** and **Prefetchers** icons, as well as some data on the Tablespaces drilldown) are disabled.
- All tablespace sub-drilldowns are disabled.

IBM Issues

Performance Diagnostics no longer supports DB2 UDB, version 6.

The following chart details known IBM UDB, version 7 and version 8 issues affecting Database Administration, Performance Diagnostics, and SQL Analysis.

APAR #	APAR descriptions	Fix	Affected component
JR14929	TABLE UDFs (OLEDB or SQL) that are defined via CREATE FUNCTION command to return DECIMAL(x,y) will show LENGTH=0 and SCALE=0 in the SYSCAT.FUNCPARMS table.	FixPak 2	Database Administration
IY26088	DB2 UDB EEE V6.1 received signal 11 when enabling event monitor using a LIKE predicate.	FixPak 6	SQL Analysis
IY26437	GET SNAPSHOT ... GLOBAL fails with SQL1610N The Database System Monitor "input parameter" data-> iNodeNumber" is invalid. The problem disappears if the GLOBAL keyword is not used.	FixPak 6	Performance Diagnostics
IY29176	MEMORY CORRUPTION TRAP when trying to enable event monitor on DB2 V6.1EEE.	FixPak 6	SQL Analysis
IY33811	SQL1042 RECEIVED WHEN ISSUING A GLOBAL MONITOR SNAPSHOT. DB2DIAG.LOG CONTAINS SQM_AGGR_SNAPSHOT_BUFFER ::AGGRE ENTRIES.	FixPak 8	Performance Diagnostics
IY30686	INSTANCE CRASH WITH SIGNAL 11 IN SQM_EVMON.	FixPak 9	SQL Analysis
JR18098	RUNNING THE INDEX ADVISOR FROM A VERSION 7 CLIENT AGAINST A VERSION 8 DATABASE CAUSES THE DATABASE TO CRASH.	FixPak 9	SQL Analysis SQL Tuning

APAR #	APAR descriptions	Fix	Affected component
IY45245	<p>Entries will be logged in the db2diag.log, stating that, "2003-03-27-14.33.38.666141 instance:db2lxb Node:0000 PID:6472(db2agent(LXB)) Appid: "LOCAL.db2lxb.03032719338 access_plan_manager sqlra_rollup_dyn_stmt Probe:20 Database Statement not protected!"</p> <p>Turning off the monitor switch for the statement stops this behavior, but doing so results in Performance Diagnostics not displaying any SQL statements.</p>	FixPak 10	Performance Diagnostics
PMR 68754.756	In DB2, version 8 EEE environments you may experience some counters displaying negative numbers. This is an intermittent problem, primarily affecting statistics counters in the Client Applications and Databases drilldowns.	No fix as yet.	Performance Diagnostics

Additional Issues for Performance Diagnostics

- Various time fields are corrupted by accessing the **File | Reset Monitor Statistics** feature in Performance Diagnostics. CPU times affected include agent_sys_cpu_time and agent_usr_cpu_time.
- The Monitor Switches dialog in Performance Diagnostics causes other instance-level counters to reset. This is true when the Monitor Switches dialog is invoked automatically at startup or when the user selects **File | Options | Monitor Switches**.
- The Performance Diagnostics **Options | Update Monitor Switches** API shows intermittent failure in DB2 UDB EE, version 7.2 systems. Research is ongoing.
- If you are running DB2 UDB, version 8, you might get some inconsistent percentage values being returned for the **Percent of Max** statistic shown on the Client Apps panel of the database and node home pages. These inconsistencies occur because the DB2 UDB, version 8 maxappls configuration parameter can be a system-controlled value. The default setting of **Automatic** means that DB2 dynamically assigns resources as needed to support new applications. It is recommended that you turn off the default alarming for the metric behind this component. See **Enabling or disabling a metric** in the Quest Central for DB2 online help for instructions on this operation.

Additional Issues for SQL Analysis

- Running an event monitor (required by SQL Analysis) in DB2 UDB, version 7.1 FixPak 4 or FixPak 5 on a Solaris machine with an instance that spans multiple physical nodes (EEE) causes the instance to hang or to crash. Upgrade to DB2 UDB, version 7.1 FixPak 6 or higher to resolve this problem.
- Databases on DB2, version 7.1 FixPak 7 and later, and on DB2, version 8.1 truncate dynamic SQL statement text in a DB2 event monitor when deadlock monitoring is enabled.
The truncated statement text displays in SQL Analysis with three consecutive periods (...) at the end. To circumvent the truncation, clear the **Collect Deadlocks** option on the Create Collection window to disable deadlock monitoring.

Additional Issues for Database Administration

- DB2 UDB, version 7.1 users must have IBM DB2 UDB version 7.1 FixPak 3 or higher installed. This prevents an instance from becoming unusable when you attempt to configure DB2 UDB EEE, version 7.1 databases.

Other Known Issues

Quest Central Scripts Containing EXPORT Statements

When a Quest Central for DB2 script containing one or more EXPORT statements is executed remotely on an AIX machine, you might see the following message:

```
mkdir: 0653-357 Cannot access directory...  
: A file or directory in the path name does not exist.
```

You may safely ignore this message. Your EXPORT statements will continue to execute normally. If you need to verify that your script executed successfully, check the `.log` file in the following location:

```
[Questhome]/[Hostname]/Jobs/[jobname]/[jobname].log
```

where `[Questhome]` is the directory where Quest Central for DB2 is installed, `[Hostname]` is the name of the machine that is running the agent, `[jobname]` is the directory for the job, and `[jobname].log` is the name of the log file.

Back-up Operations

Back-up operations before and after a DB2 UDB EEE table reorg are not supported in this release.

UDB Backup/Restore Considerations

Note the following:

- When executed in an EEE environment, the UDB BACKUP command is run against a single node. You must ensure that each node is backed up individually.
- When restoring a database in an EEE environment, you must ensure that all nodes of the database have valid backups. For more detail, refer to the DB2 documentation in Chapter 8 of the *IBM DB2 Universal Database Administration Guide: Implementation, version 7*.

Native DB2 on z/OS Utility Scripts

Scripts that use templates generated by Quest Central for DB2, version 4.0 and older for native DB2 Utilities on z/OS must be regenerated by Quest Central for DB2, version 4.8 (or higher) before they can be executed. Any script containing a #DELIM statement generated by older versions must be regenerated by the 4.8 (or higher) version before it can be executed.

SOC4 ABENDS When Running SYNCSORT

Users running SYNCSORT in the WLM environment receive ABENDS0C4 errors when DSNUTILB calls SYNCSORT. To fix this problem, users can contact SYNCSORT to obtain a tape that contains support for DB2 stored procedures. This fix applies some ZAPs to the current SORT modules, then creates a new SORT stub and aliases to a new reentrant module SYNCFNI. The documentation accompanying the tape provides instructions for applying the fix.

z/OS Browse Data Menu Item

If you right-click on a table, view, or alias, and choose Browse Data, the SQL Editor displays the data. The select statement that retrieves the data displays on the SQL tab, and it contains each column in the object. However, if you are running with the DB2 UDB, version 8 Runtime Client, the select statement could contain `SELECT *` instead of the object columns. If you want to see all of the object columns in the browse data select statement, you must apply DB2 for z/OS APAR PQ62695—*Add stored procedures and views for use by ODBC and JDBC drivers*.

NOTE: This APAR (PQ62695) affects the SELECT statement only, not the select results. The results will always show all of the columns in the object.

Enhancements and Bug Fixes for 4.8.1

This release is primarily a fix pack release, containing bug fixes reported in 4.8.

Enhancements

Benchmark Factory and Data Factory can now once again be launched from the QC console, as in 4.0 and 4.5.

Bug Fixes

CR ID	Case ID	Title
CR0053582		QCDST - Tune SQL... option from stored procedures and packages missing some SQL
CR0057770		390 Stogroup -- Browse volumes button cut off on XP
CR0058813		QCDST - LL Bean - would like to have inner join indicator in access plan tree
CR0068787		QCDST - IBM - Include section number in 'tunable SQL statements' dialog
CR0081289		ScAgent - db2level in debug info not working for 64-bit DB2
CR0116363	320303	Copy of a single cell's value in Scriptrunner takes up to several minutes
CR0116369	320885	DDL for UDF (user defined function) truncates SELECT statement
CR0116371	322429	SQL Editor paste into Excel incorrect
CR0122433		390 BA-'EDC5067I An attempt was made to open a nonexistent file for read' error
CR0122574		Browse Stogroup Vols - Space stats not appearing
CR0123592	339602	SQL Error retrieving filtered tablespace information from users permissions
CR0123593	339922	Spotlight on DB2 Help does not launch
CR0123973	340886 348169	Connection does not save userid & password with save login information option

CR0124228		Access Violation in SaUdbGui.bpl with Tune SQL option on packages
CR0124501		QCDB2 - Identify exceptions report blank when invoked from spotlight 4.8
CR0125969	344526	SQL Tuning index missing when using synonyms in index statistics pane
CR0126662	340774	Right-clicking configure option on database or instance nothing happens
CR0127644	350451	SQL Tuning SQL format not working
CR0127648		QCDB2 - needs to be able to launch BenchMrkFactory & Data Factory
CR0127686		QCDB2 4.8 - Foglight hook into Spotlight not working
CR0127849		Packages bind replace dependencies dialog access violation in OmGenAnalysis.dll
CR0128713		Mainframe install upgrade file for 4.8.1
CR0129480		Right-clicking configure for an instance causes QC10009E error message
CR0130627		QCDFM-Job Manager Script Runner output log for 4.8.1.0 shows 4.8.0.7
CR0132417		QCDSM - Object List fails due to unavailable resource

Database Administration for DB2 UDB on Windows and UNIX

Known Issues

Compare Wizard Optional Object Properties Page

The Comparison of Optional Object Properties page of the Compare Wizard has been changed. This page allows you to adjust the comparison process by designating the object properties you do not want to be compared. As of this release, *not* selecting a given property means that it will *not* be compared. If the property *is* selected, it *will* be compared. In previous releases, selecting a property meant that the property would *not* be compared.

LOAD Command and Servers with Multiple Database Partitions

Database Administration can generate LOAD statements when needed in extended alters, migrations, and compares. However, because only the IXF format is supported, LOAD cannot be used for tables that reside on more than one database partition. If this case is detected, IMPORT, instead of LOAD, will automatically be used to load the data.

Generation of EXPORT, IMPORT, and LOAD Commands

As of this release, in most cases, Database Administration assumes that a table has data even if it does not. For example, if an EXTENDED ALTER is done on a table, there will always be an EXPORT statement, a CREATE statement, and an IMPORT/LOAD statement. The exceptions to this rule are as follows:

- The **Keep data when altering database objects** option in DB2 settings is off.
- The table has an identity column. If there is no data in the table, it will not be unloaded or reloaded.
- The table has a LOB column. If there is no data in the table, it will not be unloaded or reloaded.
- Changing any part of the column data type or the not null attribute. If there is no data in the table, it will not be unloaded or reloaded.

OLE Stored Procedure Issue

In DB2 UDB, version 8.1, the library-ID of the procedure is not stored in the system catalog. This means that procedure actions such as create like, alter, extract DDL, migration, or compare will generate DDL that is missing the library-ID. IBM has opened APAR IY57306 to address this problem. There is no fix available for DB2 UDB, version 8.1, however it is scheduled to be fixed in version 8.2.

Windows that Support Drag and Drop

Some Database Administration windows support the reordering of a list via drag and drop. If a list of items supports this functionality, you should drag and drop your items only within the window list itself. If you drag an item onto the list of objects in the console, an access violation occurs and Quest Central for DB2 will have to be restarted.

Exporting or Importing DATALINK Columns

The Database Administration component does not support the exporting or importing of DATALINK columns from or into a table. This might cause problems when you perform an extended alter or migrate a table that contains a DATALINK column.

Database Administration for DB2 on z/OS**Known Issues****Compare Wizard Optional Object Properties Page**

The Comparison of Optional Object Properties page of the Compare Wizard has been changed. This page allows you to adjust the comparison process by designating the object properties you do not want to be compared. As of this release, *not* selecting a given property means that it will *not* be compared. If the property *is* selected, it *will* be compared. In previous releases, selecting a property meant that the property would *not* be compared.

Generation of REORG UNLOAD and LOAD Utilities

As of this release, in most cases, Database Administration assumes that a table has data even if it does not. For example, if an EXTENDED ALTER is done on a table, there will always be a REORG UNLOAD statement, a CREATE statement, and a LOAD statement. The exceptions to this rule are as follows:

- The **Keep data when altering database objects** option in DB2 settings is off.
- The table has an identity column. If there is no data in the table, it will not be unloaded or reloaded.
- Changing any part of the column data type or the not null attribute. If there is no data in the table, it will not be unloaded or reloaded.

Windows that Support Drag and Drop

Some Database Administration windows support the reordering of a list in the window via drag and drop. If a list of items supports this functionality, you should drag and drop your items only within the window list itself. If you drag an item onto the list of objects in the console, an access violation occurs and Quest Central for DB2 will have to be restarted.

Migrating Tables that Contain LOB Data

Migration erroneously allows you to migrate DB2 on z/OS tables that contain LOB columns with data. The UNLOAD and LOAD of table data with LOB columns is not supported. You must edit the generated script for it to run successfully. Contact Technical Support for more information.

Space Management for DB2 UDB on Windows and UNIX

Enhancements and Bug Fixes for 4.8.0

Reports

The object list card column in reports now displays values for objects on which statistics were collected. (CR115324)

Batch Analysis

You can now generate commands with Severe criteria in batch analysis. (CR116346)

Known Issues

Database Application Heap

In situations where there is a small database application heap size, you might receive the following error message:

```
SQL0954C Not enough storage is available in the application
heap to process the statement. SQLSTATE=57011
```

In these cases, the returned result list might be incomplete.

To remedy this problem, you can increase the applheapsz database configuration parameter using either of these methods:

- Right-click the database in the Quest Central for DB2 object tree and select **Configure** from the right-click menu. When the Configure Database window opens, select the applheapsz parameter from the list, then click **Edit**. Enter a larger value in the Edit Configuration Parameter window and then click **OK**. On the Configure Database window, click **Build Script**. When the SQL Editor opens, execute the script.
- Or -
- Open the SQL Editor from the Quest Central for DB2 toolbar. When the SQL Editor opens, enter this script in the upper pane on the SQL tab:

```
#ATTACH DB2;
```

```
UPDATE DATABASE CONFIGURATION
FOR databasename USING
    applheapsz nnnn;
```

```
DETACH;
```

where *databasename* is the name of the database and *nnnn* is a larger value than the one currently assigned to applheapsz for this database. Execute the script.

Space Management for DB2 UDB on z/OS

Known Issues

Generated Template Name Incompatibility with Remote Native IBM Utility Jobs

In situations where you generate a native IBM utility script using the Quest Central for DB2, version 3.1.1 client, save it to a remote subsystem, and run it on an MVS subsystem on which the Quest Central for DB2, version 4.8.1 mainframe installation has been completed, the job will fail with a syntax error. In order for native IBM utility jobs to run on a Quest Central for DB2, version 4.8.1 mainframe installation, template names must adhere to the convention of an equal sign and three opening parentheses, followed by the template name, three closing parentheses, and an equal sign:

```
=((( <template name> )))=
```

Template syntax may be changed either from the Mainframe Job Review page of the Remote Job wizard on a 3.1.1 client or in the member containing the job, after you use FTP to transfer it to the mainframe.

SQL Tuning for DB2 UDB on Windows and UNIX

Enhancements and Bug Fixes for 4.8.0

New Stop Button

The task bar no longer exists. A Stop button was added to the SQL Tuning toolbar. The Stop button also appears on the Quest Central for DB2 toolbar. You can use either Stop button to halt the execution of a query in SQL tuning. (CR114872)

Elapsed Time

Scenarios that execute before midnight and end after midnight now report elapsed time correctly. (CR114660).

Known Issues

Error Processing Recommended Virtual Indexes

The SQL Tuning Virtual Index facility makes use of IBM's special registers. When you are running the Virtual Index facility from a DB2 UDB, version 7.1 client (with FixPaks 1 through 8 applied) against a version 8 server, the version 8 server database might crash. The crash is related to the use of the special registers in this specific environment. The issue is fixed in FixPak 9. See IBM APAR JR18098 for more information.

SQL Analysis

Enhancements and Bug Fixes for 4.8.0

Totals on Frequency Tab

Metric totals now appear on the Frequency tab. (CR 32329)

New Documentation

Guidelines for setting up the DB2 database in which you intend to install the SQL Analysis for DB2 Repository have been included in both the SQL Analysis help, and in the *Quest Central for*

DB2 Installation Guide. These guidelines suggest ways to configure the overall database and to set up the specific tablespaces that will contain the repository tables and indexes to help you obtain maximum performance from the repository.

Deadlock Events Exhibit Erroneous Information

Databases on DB2 UDB, version 8.1 through FixPak 4 generate deadlock events that exhibit a zero lock wait start time. A fix for this issue is included in DB2 UDB, version 8.1 FixPak 5. See IBM APAR JR18739 for more information.

Quest Central for DB2 Version Incompatibility

For SQL Analysis, Quest Central for DB2, version 4.8.1 is not compatible with versions 2.x, 3.x or 4.0.0 of Quest Central. You must install the Quest Central for DB2, version 4.8.1 client on the client machine and the Quest Central for DB2, version 4.0.1 or 4.8.1 agent on each server. For details on installing Quest Central in these locations, refer to the *Installing Quest Central on the Client Machine* and *Installing the Quest Central for DB2 Agent* chapters in the *Quest Central for DB2 Installation Guide*.

Potential Data Loss

SQL Analysis repositories upgraded to version 4.5 should not be managed by version 2.x, 3.x, or 4.0.0 clients. Incompatibilities with these client versions could potentially lead to SQL Analysis collection data loss. Refer to the *Installing Quest Central on the Client Machine* and *Installing the Quest Central for DB2 Agent* chapters in the *Quest Central for DB2 Installation Guide* for more information.

LOCKTIMEOUT Configuration Parameter Requirement

Ensure that the LOCKTIMEOUT configuration parameter is set to a value other than -1 for the database in which you are installing the SQL Analysis Repository tables, and for the database on which you are collecting data.

Page Requirement for Running an Event Monitor

SQL Analysis requires 36 4-kilobyte pages to run an event monitor during a SQL collection process. For more information on setting the mon_heap_sz parameter appropriately for running an event monitor, refer to the IBM *DB2 Universal Database System Monitor Guide and Reference*.

Required Authorities

To assign a SQL Analysis Repository to a DB2 instance containing the database on which you intend to run a collection (and to which you are currently connected), you need these authorities:

- The user ID connected to the database requires SYSADM authority.
- The user ID running the Quest Central Agent (and related SQL Analysis agents) must belong to the SYSADM group for the instance.

To run a collection on a DB2 database, the user ID connected to this database requires the following authorities and privileges:

- DBADM authority on the database.
- SELECT, INSERT, UPDATE, and DELETE privileges on the SQL Analysis Repository tables.

Enabling Asynchronous I/O on AIX 4.3

SQL Analysis now uses asynchronous I/O to read event monitor files during a collection process. AIX 4.3 requires a kernel change to enable asynchronous I/O. (AIX 5.1 does not require this change because asynchronous I/O is enabled by default.)

To enable asynchronous I/O on an AIX 4.3 machine:

1. Issue the following command to verify that the fileset `bos.rte.aio` is installed:

```
lsllpp -l bos.rte.aio
```

If this fileset is not installed, see your system administrator to have it installed.

If the fileset is installed, you will receive output similar to this:

Fileset	Level	State	Description
Path: /usr/lib/objrepos bos.rte.aio	4.3.3.0	COMMITTED	Asynchronous I/O Extension
Path: /etc/objrepos bos.rte.aio	4.3.3.0	COMMITTED	Asynchronous I/O Extension

2. Use SMIT to issue the following command, which verifies that the aio0 device is available:

```
smit chgaio
```

The Change/Show Characteristics of Asynchronous I/O screen is displayed.

3. Check that the State to be configured at system restart option is set to **available**.
 - If this option is not set to **available**, change it to **available** and continue with step 4.

Or

 - If this option is set to **available**, go on to step 5.
4. Restart the machine.
5. Issue the following command to verify the aio0 state for a final check:

```
lsdev -C |grep aio
```

The command should return the following message:

```
aio0 Available Asynchronous I/O
```

Performance Diagnostics for DB2 UDB on Windows and UNIX

Enhancements and Bug Fixes for 4.8.0

OS Drilldown Display

The Performance Diagnostics OS drilldown for a database now displays graph information. (CR116368)

Canvas Drawing

The client no longer crashes with a message that the Canvas does not allow drawing. This problem occurred mainly in a heavily coupled environment. Now, large information records are handled more efficiently. (CR116370)

Empty Archive

The SQL archive now contains information after playback of recording on z/OS. Previously the SQL archive was empty. (CR0117846)

Data Recording

An OPAGENT IFI SQLCODE-803 error no longer occurs when recording data sharing multiple LPARs. (CR117843)

IFI Data Handling

Due to improvements in the handling of bad IFI data, the top SQL drilldown no longer shows large GETPAGE numbers. (CR0116357)

External Storage

External storage now displays valid values for total and free space.

Known Issues

The following paragraphs describe the known issues for Performance Diagnostics for DB2 UDB on Windows and UNIX.

DB2 Issues

There are some known DB2 UDB on Windows and UNIX issues that affect Performance Diagnostics. Refer to the *Known IBM issues* section in these release notes for more information.

Record Feature Recommendations

The following are recommendations for using Performance Diagnostics' record feature:

- Do not set foreground and background refresh rates below 30 - 60 seconds because doing so affects performance.
- When you record more than one database at a time, the record feature can return tablespace data for only one tablespace. You must have the tablespace drilldown open for this database as you record. This is due to an IBM DB2 snapshot issue (PMR 86905).
- When you record a single database, the record feature returns tablespace data without requiring the tablespace drilldown to be open.

DB2 Snapshot NOAUTH

In DB2 UDB, version 8.0 and later, users who do not have SYSADM, SYSMAINT, or SYSCTRL authority can access DB2 snapshot data.

To allow access to the snapshot data, the DB2_SNAPSHOT_NOAUTH parameter must be activated. A user with appropriate authority (SYSADM, SYSMAINT, or SYSCTRL) issues the following command and restarts DB2:

```
db2set DB2_SNAPSHOT_NOAUTH=on
```

NOTE: Issuing this command causes DB2 to not verify the privileges of the current user when one of the snapshot functions is accessed.

With this authority, some of the Performance Diagnostics data and functions will be unavailable. For example, monitor switches cannot be changed, and no data is returned for storage use and tablespaces. Various other sub-drilldowns could also be unavailable, depending on the settings in your particular work environment.

Data Generator

Data Generator populates DB2 Date/Time fields with date values only; zeros are entered for the time.

Contacting Quest Technical Support

If you have questions about any of the information presented in these release notes, please visit the Support web site for current contact information and hours of operation:

<http://www.quest.com/support>