WHAT'S IN SQLBASE® VERSIONS 11.0 – 11.6

UNIFY'S EMBEDDED DATABASE WORKHORSE GETS BETTER AND BETTER

Use SQLBase 11 to increase your transaction and reporting throughput significantly.

With SQLBase 11 you can have more concurrent users using SQLBase than ever before. You might well find that you do not need to switch to other databases for scalability reasons anymore. Internal TPC-C benchmark testing revealed a 2.6 times increase of transaction throughput in SQLBase 11 and a 7 times reporting acceleration. SQLBase 11 also features new auto increment columns for automated unique key generation. The SQLBase 11 automatic database update feature allows you to easily deploy the product to your installed base without the need of manual interaction to update the databases.

Reasons to Upgrade to SQLBase 11 Now!

SQLBase 11 TPC-C Benchmark: Write-access transactions up to 2.6 times faster, reports up to 7 times faster

Think about what that performance increase can do for you! Your users will be amazed by the new application speed. You can have many more users accessing one SQLBase server than ever before. Switching to other database products for scalability reasons might not be necessary anymore. You can use the easy database features of SQLBase for hundreds of concurrent users now. The industry standard TPC-C benchmark test simulates a complete environment where a population of terminal operators executes transactions against a database. These transactions include entering and delivering orders, recording payments, checking the status of orders, and monitoring the level of stock at the warehouses (updates and inserts) while running reports.

SQLBase 11 Transaction Throughput

SQLBase 11 can be described as live and let live. Writing transactions are not getting the way of reading transactions and reading transactions do not get the way of writing transactions, allowing both processes to travel at much higher speeds.

SQLBase 11 performs much better in transactions and reporting than SQLBase 9.0.1. All numbers are in transactions per minute.

Enabling the SQLBase 11 Read Only isolation level results in a significant increased transaction throughput from 75 tpm in SQLBase 9.0.1 (RL mode) to 199 tpm in SQLBase 11 which is 2.6 times improvement over SQLBase 9.0.1.

SQLBase 11 Reporting Performance

Enjoy a smooth reporting experience with SQLBase 11. Imagine a road with no red traffic lights and no speed limit. That is what SQLBase 11 does to your reports. Reports running on the TPC-C database increase from 209 tpm in SQLBase 9.0.1 (RL) to 1452 tpm in SQLBase 11 using Read Only isolation level. This is an almost 7 times performance increase for reporting solutions in SQLBase 11.

SQLBASE 11.0 HIGHLIGHTS

- Support for Microsoft® Windows Vista
- Improved scalability, better concurrency
- Larger database support
- Help identifying application deadlocks
- No non application-based deadlocks
- Significant performance improvements

Row Level Locking Behavior

Reading transactions: New Read Committed and Read Only isolation levels do not run into locks when reading data

Writing transactions: New locking mechanisms and functionality have been added to SQLBase 11. The intention of the new locking functionality is to improve concurrency and throughput by reducing or eliminating lock contention including non-application deadlocks.

This functionality includes "LOCK TABLE" and "SET AUTOLOCKTABLE" statements that can be prepared and executed as well as configuration settings in the sql.ini file. With AutoLockTable set to SMART, non-application deadlocks will be eliminated.

Additional Features and Benefits of SQLBase 11

Easier application development and maintenance: SQLBase 11 features new Auto-Increment columns to allow for automatic unique key generation.

Easy database administration: Databases greater than 2 gigabytes can be backed up without segmentation.

Improved Java support for NXJ Developer and other Java tools such as Eclipse. The SQLBase 11 JDBC driver has been updated to support JDK 1.4.1 as well as significant performance and functionality improvements.

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WHAT'S NEW IN SQLBASE 11.5

SMP – Support for multi-processor and multi-core systems

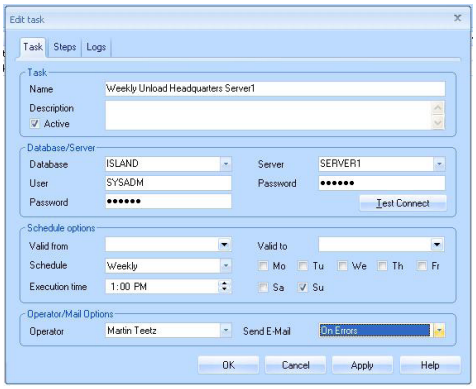
SQLBase 11.5 now takes advantage of multi-processor and multi-core machines with increased performance and much higher scalability. SQLBase 11.5 uses multithreading for read and write operations. TPC/C reporting applications run up to 34% faster using a quad core SMP machine. SQLBase write performance increases by up to 25%.

SQLBase SMP brings immediate performance improvements plus significantly higher scalability to users. Applications run faster and more users can use one single SQLBase server when using SMP machines with Intel core duo processors or quad core and other SMP systems.

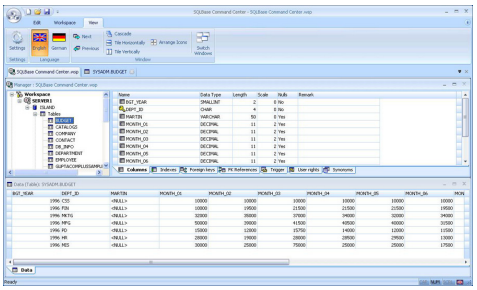
SQLBase Command Center – New!

The new SQLBase Command Center provides an integrated GUI tool for database maintenance tasks. The Command Center offers automation of database administration tasks for easier database maintenance, automation of recurring administrative tasks, and notifications and interfaces to create, modify or add database objects such as columns, tables, indices, views and more.

From visual check database to automated maintenance tasks, the SQLBase Command Center integrates SQLConsole, SQLTalk and Connectivity Administration plus more, offering a wealth of powerful and easy to use features to maintain servers and databases and secure their healthy operation.



Schedule automated maintenance tasks like Backups and get notified by email in case of success or failure.



A powerful database object editor lets one create, change or drop any database object with ease. During a SQLBase Command Center session, all database changes are recorded in a SQL script file that can be saved and later applied to a deployed application database.

SQLBASE 11.5 HIGHLIGHTS

- SQLBase 11.5 SMP performance & scalability
- New SQLBase command center
- Worldwide database deployment
- Performance and scalability
- Easy upgrade

SQLBase Command Center includes a powerful Stored Procedure editor that offers color coded syntax display and a full debugger for Stored Procedures.

Run a check database and get visual results that immediately identify the source of a problem.

SQLBase Command Center includes a new SQLTalk with color coded editor and grid output.

Smart Unicode Implementation

SQLBase 11.5 brings smart Unicode support to enable international application deployment, supporting virtually any character set and language. For users that do not require Unicode, there is no performance hit or negative effect in SQLBase 11.5.

Supporting Unicode is vital to many organizations, but not all organizations require Unicode as some users serve local markets. SQLBase 11.5 supports both user groups by providing a smart implementation with no effect on non-Unicode applications.

Support for 32 Character Passwords

SQLBase 11.5 introduces enhanced password security by providing industry standard password size of up to 32 characters. Securing valuable data is now easier.

Microsoft Windows Vista and Windows Server 2008 Support

SQLBase 11.5 knows about the advanced security concepts of Windows Vista and Windows Server 2008. SQLBase 11.5 installs itself respecting the secure areas for programs and for data on the latest Windows systems. This enables customers to leverage the advanced security features of Windows Vista and Windows Server 2008. SQLBase 11.5 is a safe choice for the latest Microsoft operating systems.

Microsoft Windows Vista and Windows Server 2008 support

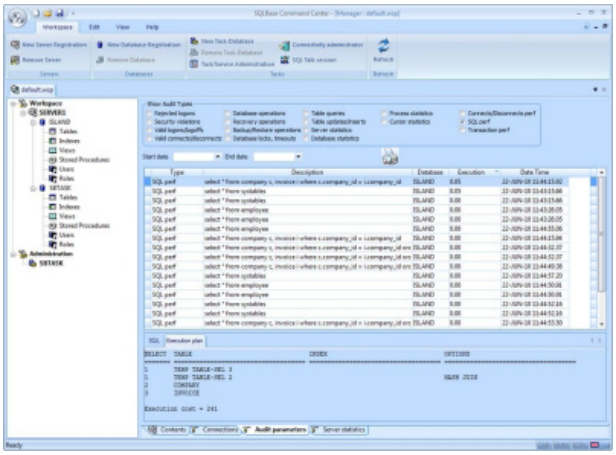
WHAT'S IN SQLBASE® VERSIONS 11.0 – 11.6

WHAT'S NEW IN SQLBASE 11.6

Easy and powerful database monitoring, increased limits, roles and improved performance. A ton of new functionality requested by customers are included in this powerful release of the beloved database workhorse - SQLBase.

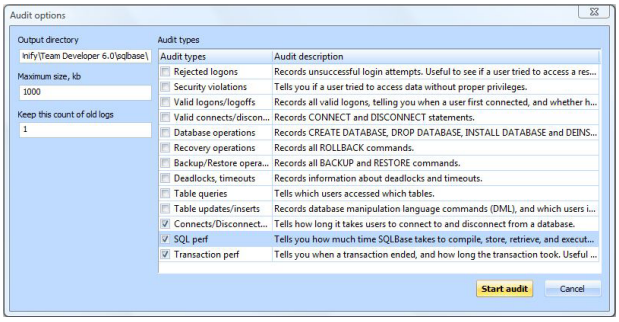
SQLBase 11.6 Command Center: Monitor, Analyze, Solve

- **Monitor:** Use the easy and intuitive SQLBase Command Center to monitor what is going on with your SQLBase servers. Easily monitor local and remote SQLBase servers.
- **Analyze:** Easily detect the performance bottlenecks or other database related issues.
- **Solve:** Put solutions in place that solve performance bottlenecks.



SQLBase 11.6 Command Center has all the information about your SQLBase servers available. Command Center helps you to monitor the health of your and your customers SQLBase installations. In case of performance bottlenecks, the new performance monitoring allows you to detect the source of the problem with a few mouse clicks. Solving the issue might only involve creating a few new indexes or switching to the new Read Committed isolation level (further details below).

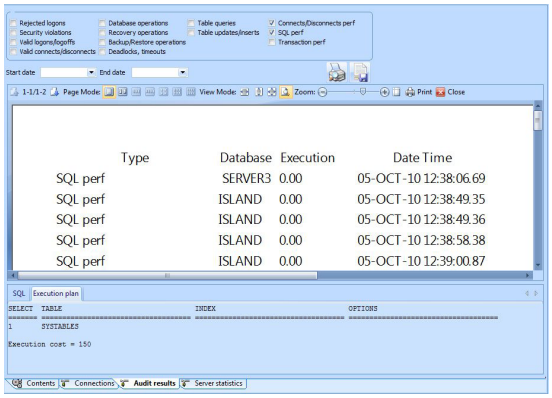
The following screenshot shows the auditing options available in SQLBase Command Center. Just click any of the options to start the audit.



WHAT'S NEW IN SQLBASE 11.6

- Easy and powerful database monitoring
- Easier and faster detection and solutions for performance bottlenecks
- Easier management of users and roles
- More columns per table/view, more data for char and nchar fields
- Enhanced Read Committed (RC) for better multi-user application performance
- SQLBase 11.6 64-bit Windows Drivers

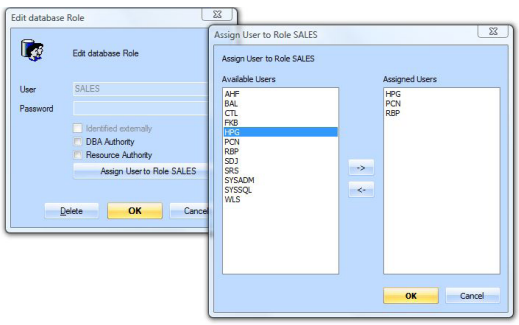
The image below is a print preview of a SQL performance audit.



Type	Database	Execution	Date Time
SQL perf	SERVER3	0.00	05-OCT-10 12:38:06.69
SQL perf	ISLAND	0.00	05-OCT-10 12:38:49.35
SQL perf	ISLAND	0.00	05-OCT-10 12:38:49.36
SQL perf	ISLAND	0.00	05-OCT-10 12:38:58.38
SQL perf	ISLAND	0.00	05-OCT-10 12:39:00.87

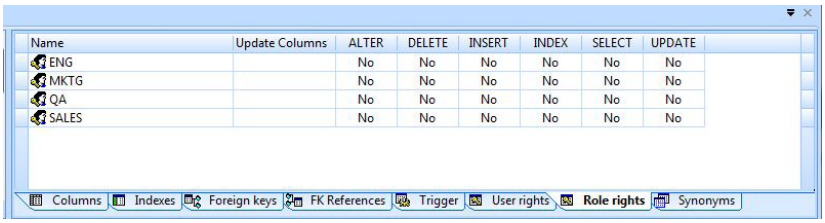
SQLBase 11.6 Roles

Significantly easier user administration using the new roles concept. Just create a few roles and define detailed security for those roles. Then assign as many users as you like to a role. SQLBase Command Center lets you easily manage users and roles.



WHAT'S IN SQLBASE® VERSIONS 11.0 – 11.6

The image below shows the new Role rights tab for tables in SQLBase Command Center.



Name	Update Columns	ALTER	DELETE	INSERT	INDEX	SELECT	UPDATE
ENG		No	No	No	No	No	No
MKTG		No	No	No	No	No	No
QA		No	No	No	No	No	No
SALES		No	No	No	No	No	No

Columns | Indexes | Foreign keys | FK References | Trigger | User rights | Role rights | Synonyms

SQLBase 11.6 Increased Limits: More columns per table/view, more data for char and nchar fields

Now create up to 1000 columns per table or view. Create NCHAR Unicode fields having a length of 450 characters and varchar fields up to 900 characters. Use the new LONG NVARCHAR datatype for unlimited length Unicode data.

SQLBase 11.6 Enhanced Read Committed (RC) for Better Multi-user Application Performance

Enhanced RC modes allow reusing existing applications without changes and leverage the no lock reading mode of RC. In RC mode, queries never have to wait for locks to be released before they read data. This can accelerate multi-user applications quite dramatically.

SQLBase 11.6 64-bit Windows Drivers

Do you have 64-bit applications that need to access SQLBase? SQLBase 11.6 comes with a 64-bit ODBC, OLEDB and .NET Data Provider.

SUPPORT AND INTERFACES

Windows Server Operating Systems - x86 platform (Intel/AMD)
- Windows 7 (32bit and 64bit)
- Windows Vista (32bit and 64bit)
- Windows XP (32bit and 64bit)
- Windows Server 2003 (32bit and 64bit)

Linux Server Operating Systems - x86 platform (Intel/AMD)
- RedHat AS/ES 4, RedHat AS/ES 5

SQL Language Support
- Support for much of the ANSI SQL-92 standard
- Fully transactional DML and DDL
- Support for distributed transactions

Win32 Programming Interfaces
- C API
- .NET Data Provider
- OLE DB Provider
- ODBC Driver
- JDBC Pure Java (type 4)

Linux Programming Interfaces
- C API
- ODBC 3.51 compliant (unixODBC & iODBC)
- PHP ready
- JDBC Pure Java (type 4)

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