

Benchmark Factory[®]

for Databases

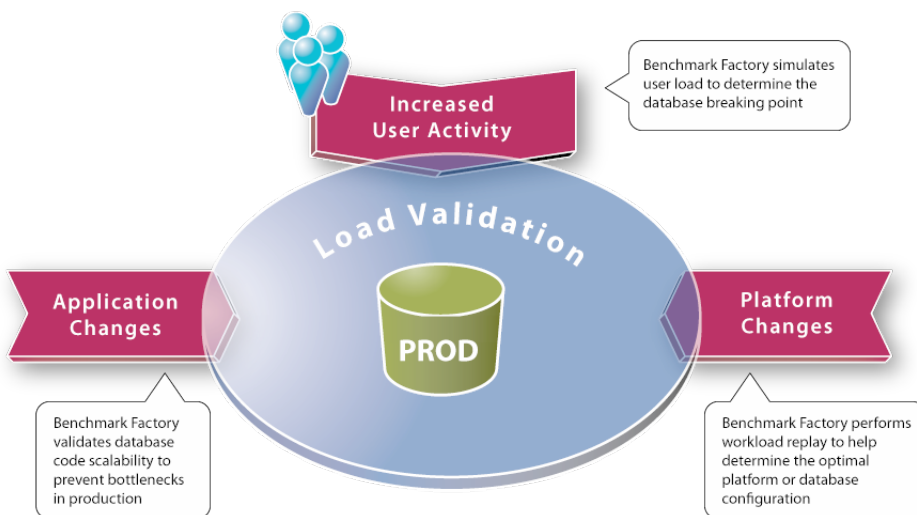
Database Workload and Scalability Testing

When new, upgraded or migrated systems and applications in databases are not tested properly, organizations are unlikely to attain the goals they've set for performance and availability in their IT infrastructures. Often, these organizations then must contend with frustrated customers and end users who are affected by poor performance.

Benchmark Factory[®] for Databases is a performance and code scalability testing tool that simulates users and transactions on the database and replays production or synthetic workload in non-production environments. This enables developers, database administrators and quality assurance teams to:

- Replay production or synthetic activity in test or development environments
- Easily perform load tests on SQL scripts, PL/SQL, T-SQL code and stored procedures under different concurrent user configurations
- Simulate real database application workloads using out-of-the-box industry standard benchmarks
- Determine system throughput and find database breaking points

With Benchmark Factory, organizations reduce the amount of time spent troubleshooting production issues and can quickly implement new applications. Benchmark Factory is available for Oracle, SQL Server, DB2, Sybase, MySQL and other databases via ODBC connectivity.



BENEFITS

- Replay production or synthetic activity in test or development environments
- Easily perform load tests on SQL scripts, PL/SQL, T-SQL code and stored procedures under different concurrent user configurations
- Simulate real database application workloads using out-of-the-box industry standard benchmarks
- Determine system throughput and find database breaking points

"With Benchmark Factory, we were able to diagnose and resolve potential system issues without impacting our business. The tool provided an immediate return on our investment."

— Eric Herfield
Vice President and Chief Technical Architect
e-Rewards Market Research

Database Workload Generation

Benchmark Factory allows you to take production or synthetic activity and replay it in test or development environments to simulate real-world production loads. This empowers you to understand future performance problems and do “what-if” analyses using actual transaction workloads.

Database Code Scalability Testing

With Benchmark Factory you can easily perform load tests on SQL scripts, PL/SQL, T-SQL code and stored procedures under different concurrent user configurations to evaluate how applications perform when deployed with real activity. Benchmark Factory also integrates with Quest’s SQL tuning products to fix any code performance issues found prior to production deployment.

Industry-Standard Benchmark Testing

Benchmark Factory enables you to simulate real database application workloads using out-of-the-box industry-standard benchmarks (TPC-H, TPC-C, TPC-D, TPC-E, ASP3AP and scalable hardware) to evaluate database scalability, test hardware/configurations and determine system throughput.

Virtual User (VU) and Transaction Load Simulation

Benchmark Factory propagates user and transaction workloads on the system-under-test to quantify application or server performance, determine system throughput and find database breaking points. Each user and transaction acts as a separate, independent thread with its own connection and statistics, including run times and transactions per second.

Practical Applications:

- **Evaluates Oracle RAC configurations to help determine the correct number of RAC nodes to deploy – a major challenge when deploying RAC environments.** By replaying real production activity, you can balance workload and evaluate scalability thresholds in already-implemented environments. Through integration with Quest’s Spotlight® on RAC, you have detailed performance metrics. Quest’s solution minimizes implementation and maintenance costs of Oracle RAC environments.
- **Facilitates migration to Microsoft SQL Server 2005 and Oracle 10g.** By replaying production workload from your previous SQL Server or Oracle version on a new version test database, you can determine user and transaction load capacity and processing speed before you deploy to production. Using Benchmark Factory with Quest’s Toad® for Oracle, SQL Server and DB2, you can also tune database code for optimal performance to increase the success of migrations.

About Quest Software, Inc.

Now more than ever, organizations need to work smart and improve efficiency. Quest Software creates and supports smart systems management products—helping our customers solve everyday IT challenges faster and easier. Visit www.quest.com for more information.

System Requirements:

Supported Repository Databases

- Oracle
- SQL Server
- MySQL
- Sybase
- Adaptive Server Anywhere (iAnywhere)

Platform

- 1.0 GHz x86 compatible CPU

Memory

- 512 MB of RAM recommended

Hard Disk Space

- 120 MB

Operating System

- Microsoft® Windows 2000, 2003, 2008, XP Professional, Vista and Windows 7

Database Client/Server Versions

- Oracle 8, 8i, 9i, 9.2, 10g and 11g

(Note: Requires Oracle 8.1.7 client libraries or higher.)

- SQL Server 7, 2000, 2005 and 2008

- Sybase 12.5 and 15

- DB2 LUW 8.1.5 through 9

- MySQL4.5 and 5.x



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