

Teradata Database

Version 2 Release 4.1

The Premier Performer

The primary mission of your database is *performance*. So why not begin with the database that outperforms all others – the Teradata® Database.



This scalable, high-performance decision support engine is unmatched in the industry. It's a solution that offers you a full suite of data access and management tools, plus world-class services based on

Teradata Corporation's years of data warehouse experience. It's a unique combination of products and expertise that lets us offer you a proven data warehousing solution – a solution that provides business advantages for you and your company.

Designed for decision support and parallel implementation, the Teradata Database is not constrained by the limitations that traditionally plague transaction processing databases. Instead, the Teradata Database easily and efficiently handles complex data requirements and simplifies management of the data warehouse environment. How? By automatically distributing data and balancing workloads. The Teradata Database's ease of use, combined with true query parallelism, allows it to achieve query performance and throughput levels unmatched by any other relational database management system (RDBMS).

Any successful data warehouse solution begins with the database engine. So select the database that offers:

- > **Maximum scalability**
- > **Simplified mainframe integration**
- > **Lowest total cost of ownership**
- > **Mission-critical availability**
- > **Easy handling of the most complex data requirements**
- > **Fully parallel operation**

Highlights and Enhancements

The enhanced Teradata Database V2R4.1 delivers unprecedented ease of management, performance, and business benefits:

Active Data Warehousing – Teradata gives users instant knowledge enabled by powerful analytics that deliver quick – and sometimes even automated – answers, all capabilities delivered through an active environment.

Strategic Decision Making – We've strengthened this area with support for new analytical functions, such as linear regressions, trigonometric functions, hyperbolic functions, and percent rank. These functions are available through standard SQL and are executed inside the database on the entire set of the data, not just a sample. This results in a more accurate model.

Tactical Decision Making – We've also improved the stored procedures and additional capabilities in join index and aggregate join index to help accelerate the high volume/short response time requests to the database from a large number of users.

Event-Driven Decision Making – And we've optimized the performance and scalability of triggers to give you even faster response time to queries.

Continuous Update – Finally, we've improved this area with support of an atomic upsert SQL statement to provide enhanced performance of continuous updates.

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Powerful Management Tools

Teradata Database V2R4.1 also includes the array of vital supporting products you expect from the industry leader. These products, when used in conjunction with Teradata Manager and other Teradata software, provide a powerful environment to help you effectively manage, maintain, and maximize the usage of your data warehouse.

WinDDI – WinDDI (previously included in Teradata Manager) is an easy-to-use account management tool. This Windows®-based tool interfaces with the Teradata RDBMS data dictionary for performing database administration tasks.

Basic Teradata Query Language (BTEQ) – enables Teradata users to submit SQL statements in batch or interactive mode.

BTEQ features include:

- > Use of more than one Teradata SQL statement per request
- > Display of response time for each request
- > Read and write data to files maintained on the host computer
- > Repeat a request
- > Use of one or more sessions

The Open Database Connectivity (ODBC) Driver for Teradata – enables applications to access the Teradata Database via the industry standard ODBC specification. It also provides the convenience of using a variety of Teradata and third-party tools with your Teradata Database.

Teradata Meta Data Services – allow you to manage the metadata associated with your Teradata Database. This is critical for managing the enterprise data and the many applications used with a Teradata solution. Teradata Meta Data Services can also be a pivotal tool for implementing a privacy policy.

Specifications

Database Capacity

- 1.023 Petabytes (PB)
- 512 nodes

Data Model

- Relational
- ANSI SQL Compatible
- Full Query Parallelism
- Balanced Performance

Architectures Supported

- Symmetric Multi-Processing (SMP)
- Massively Parallel Processing (MPP)

Operating Systems Supported

- UNIX SVR4 MP-RAS™
- Microsoft Windows 2000® Advanced Server and Server Editions
- Microsoft Windows.net

Client Platforms Supported

- MS-DOS®, Windows
- IBM VM, MVS, and OS/2
- UNIX SVR4 MP-RAS and most other UNIX® platforms

Mainframe Integration

- IBM
- Amdahl
- Bull

Language Preprocessors

- PL/1, C, COBOL

Tools and Utilities

- Teradata Manager (database system administrator)
- Teradata Administration Workstation
- Teradata BTEQ (query/report writing)
- Teradata TPump (continuous load)
- Teradata Queryman (query/DBA)
- Teradata FastLoad (data loading)

- Teradata MultiLoad (multiple table loading)
- Teradata FastExport (data extraction)
- Teradata Archive/Recovery Utility
- Teradata Dynamic Query Manager (query workload management)
- Teradata Warehouse Builder (Parallel Load Environment)
- Teradata Warehouse Miner Stats
- Teradata Warehouse Miner
- Teradata Visual Explain
- Teradata System Emulation Tool

Application Programming Interfaces

- ODBC Driver for Teradata
- JDBC Driver for Teradata
- OLE-DB Access Module for Teradata
- XML
- Teradata CLI (multiple platforms)
- TS/API

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