



What's New—

Raima Database Manager 14.0

RDM is a high-performance database management system that is optimized for operating systems commonly used within the embedded market. The database engine has been developed to fully utilize multi-core processors, run with minimal memory, and support both in-memory and on-disk storage. It provides a subset of the ANSI/ISO standard SQL that is suitable for running on a wide variety of computers and embedded operating systems which may have limited resources.

Key Features:

- Next Generation Storage Format
 - Performance
 - Compression
 - Portability
 - SQL/Core Compatibility
 - Upgradability
 - In-Memory Optimizations
 - SQL/PL
 - Dynamic DDL
 - Comprehensive API
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Next Generation Storage Format

The new database file format will decrease database size through variability and compression. It is designed to meet the following requirements:

- **Performance:** Improved performance over previous version of RDM and competitor products.
- **Compression:** Store only the data needed per row to avoid underutilized space. Also column level compression to increase the packing of rows and reduce overall data file size.
- **Portability:** Database content will be independent of the CPU architecture, allowing databases to be copied between platforms, or concurrently accessed by computers with different operating systems or CPU architectures.
- **SQL/Core Compatibility:** This version of RDM will combine the Core and SQL database definition languages into a single DDL. The file format will support Core and SQL, as well as consolidating the catalog and database definition files. Primary and foreign key references will be a core level feature. And NULL support as a core level feature.
- **Upgradability:** Database upgradability with respect to database migration from prior RDM versions can be done through import/export functionality.

In-Memory Performance Optimization

RDM 14 will have a fully optimized architecture for memory resident databases to improve performance and offer additional benefits. The single-process/multi-thread application architecture will have additional performance features.

SQL/PL

SQL Persistent Stored Modules and Procedural Language are a major ease-of-use enhancement in RDM 14. This feature follows the ISO standard for SQL scripted procedures that are stored together with the database & available to all database users.

Dynamic DDL

This feature is important to meet customer feature demand for the ability to create and alter database and table definitions, which enhances the customer application upgrade scenarios.

Comprehensive API

RDM 14 will further enhance programmer efficiency by offering a comprehensive and modern cursor API for database command, control and navigational access, plus SQL connection and statement processing.

Want to know more?

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