What's New—
Raima Database Manager 14.1

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
- Upgradability
- Geospatial Data
- SQL Triggers
- SQL Scrollable Cursors
- Database snapshots
- 3rd Party Replication

Next Generation Storage Format

The new database file format will increase database throughput through an append-only system. 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.
- ***Upgradability:*** Database upgradability with respect to database migration from prior RDM versions can be done through import/export functionality.

Geospatial Data Support

RDM 14.1 will have an optimized R-tree index implementation specifically designed to be used for geospatial data. This index type will facilitate quick bounding box lookups and efficient file storage.

SQL Triggers

SQL triggers allows for the user to define a procedure which automatically executes on a table whenever that table is modified through an Insert, Update or Delete statement.

SQL Scrollable Cursors

RDM 14.1 will support scrollable cursors in SQL. This feature will let the user navigate bi-directionally on a single result set cursor from any SQL query. This will increase the performance on queries where the user needs to go to both the next and previous members.

Snapshots

For users needing access to the most performant read speeds without interruption from write transactions, Raima now supports database snapshots. Users can create a snapshot of the database at any point in time and read from that static data until the snapshot is closed.

3rd Party Replication

Replication returns to RDM 14.1 through the use of SymmetricDS and the SQL trigger implementation. This feature lets RDM 14.1 database systems to replicate to RDM or any other number of database systems. Data transformations are further allowed to occur between the systems.

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