

BENEFITS

- Identify costly SQL queries
- Intelligently cache and distribute query result sets
- Enhance application performance and scalability of database intensive applications
- Deploy into existing infrastructures with no additional development

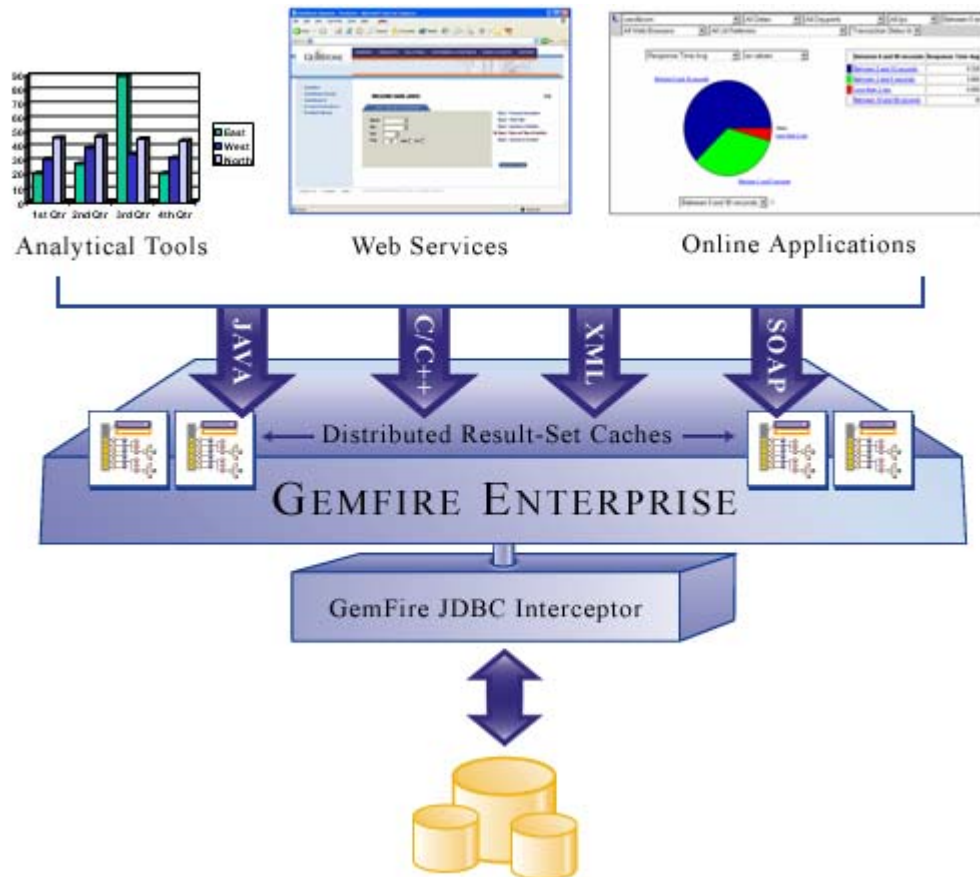
GemFire JDBC Interceptor

GemFire JDBC Interceptor is a pluggable extension for GemFire Enterprise that is used to tune database access performance without requiring any modifications to the application code.

GemFire JDBC Interceptor features a JDBCTM 2.0 driver that allows the user to monitor any JDBC application for SQL queries, configure individual queries or patterns of queries as being cacheable, and dynamically cache and distribute database query result-sets in-memory and/or disk across multiple nodes. With

the JDBC compliant driver, there is no impact to the application code and application performance can be tuned in real-time. The JDBC driver shields the user from having to use the GemFire Enterprise cache APIs explicitly.

GemFire JDBC Interceptor exposes all SQL being generated by an application and summarizes this information in a simple, easy to understand graphical user-interface. The product instantly identifies excessive or long-running SQL statements generated by code in



development. This early visibility allows performance problems to be corrected early in the development cycle, when performance tuning is dramatically less time-consuming and costly. Developers can rapidly isolate and correct performance problems with every build by analyzing the SQL generated by unit tests and looking for newly introduced code that may be causing performance problems.

GemFire JDBC Interceptor immediately commits data to the database when an update occurs, which ensures the integrity of the data. When a query result set is not found in the cache, the driver fetches it from the backend data source and stores it in the cache before returning it to the user.

Retrieving results from the in-memory cache greatly enhances the performance of Java and J2EE applications by avoiding roundtrips to the database. By reducing the number of hits to the database, the overall performance of databases are also improved.

Multiple options to maintain the freshness of the cached data are also provided by GemFire JDBC Interceptor. Applications can configure "Time to Live" for individual queries or sets of queries to refresh the data from the data source. Applications can alternatively configure an absolute time when the query result set gets invalidated in the cache. GemFire JDBC Interceptor can interpret data manipulation statements and invalidate result sets. Any change made to the a local cache is synchronized with other members in the system, ensuring data consistency throughout the system.

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