SOLUTION OVERVIEW

SQL-based BI and ETL tools require a relational view of data ("schema") which makes it challenging to use these tools with NoSQL data sources such as Couchbase. Simba drivers make this easy through an auto-generation mechanism for defining a relational schema which can then be consumed via SQL.

Alternatively, analysts and data scientists can continue to take advantage of the driver’s pass-through support of Couchbase’s powerful query language, N1QL (pronounced “nickel”), which adds on to SQL the ability to query JSON documents.

PRODUCT HIGHLIGHTS

- Powerful SQL Connector allows users to define schemas on the fly on schema-less data.
- Maps SQL to Couchbase’s N1QL query language with N1QL pass-through query option.
- Collaborative query execution distributes the load between the server and the driver.
- Improves application reliability and performance by automatically distributing query processing across the nodes in a Couchbase cluster.

The right skill sets for the right value, based on your needs. That’s the Simba way.

82% of all data sources in the market are accessible via Simba’s scalable connectivity solutions.

Support is technical professionals talking to technical professionals.
Integration services speed time-to-market and reduce costs.
More than testing, we recommend, review and validate drivers work with the intended application(s).
How It Works

The Simba Couchbase drivers feature an auto-generation mechanism for defining a relational schema whereby collections of documents are mapped to relational tables, and composite data types, such as arrays, are mapped to virtual re-normalized tables. Optional further customization of these schemas is possible with the included Schema Editor tool. Once the schema is finalized, it can be stored in Couchbase to ensure all users use the same schema.

Analysts and data scientists can continue to work with NoSQL data sources using familiar BI tools without a need to learn a new tool or query language. Those familiar with Couchbase’s own query language, N1QL, can use the pass-through option of the drivers to submit queries directly to Couchbase.

Features

• Bundled Schema Editor allows further customization and sharing of autogenerated schema.
• Direct BI Tool connectivity to data without extraction.
• Adds SQL-92 capabilities to Couchbase.
• Secure data in transit with SSL.
• Full compatibility with leading analytic/reporting apps, including Alteryx, Excel, Microsoft Power BI, MicroStrategy, SAP Cloud for Analytics, QlikView and Tableau.

Specifications

• Supports Couchbase Server 5.1.
• Complies with the latest ODBC 3.8 Specification.
• Complies with the latest JDBC 4.0 and 4.1 specifications.
• Support for 32 and 64-bit applications.
• Supports Unicode.
• Supports multiple platforms, including Windows, Linux and Mac OS.
• Supports ANSI SQL-92.
• Supports N1QL.

Simba is the industry choice for standards-based data access and analytics solutions, and for innovation in data connectivity, such as with Magnitude Gateway. Our reputation as the connectivity pioneer means we’re the preferred partner for SDKs – ODBC and JDBC – and our technology is embedded into today’s most popular BI and analytics applications. A subsidiary of Magnitude Software, the unified data application management leader, Simba provides connectivity solutions that are pivotal to the vast operational efficiencies delivered by the Magnitude portfolio of products.

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