

IBM DB2

The combination of MicroStrategy and IBM DB2 offers organizations a great way to deliver top-notch query response times. MicroStrategy's tight integration with IBM DB2's broad list of database functions and SQL functionality helps improve analytical performance.

BENEFITS

MicroStrategy is an enterprise grade Business Intelligence platform that provides drivers for all supported RDBMS platforms to generate optimized SQL that takes advantage of database specific functionality. MicroStrategy applications can achieve industry-leading data scale due to its reliance on the processing power and data management capabilities of the underlying database.

MicroStrategy can push down the analytics to the database in the form of optimized SQL queries and visualize the data of the result sets per the report and dashboard specification.

Query performance in many data warehouses is enhanced using aggregate tables.

MicroStrategy's SQL Engine is aggregate-aware and determines the use of aggregate tables transparently at query time.

MICROSTRATEGY BENEFITS

- DB2-optimized SQL syntax to improve analytical performance
- Multi-pass SQL for added analytical sophistication
- Seamless support for key DB2 features such as DB2 BLU acceleration, DB2 compression, DB2 workload manager, DB2 intra-partition parallelism, and DB2 function library
- Extensions to DB2 functionality such as aggregate awareness with physical summary tables

IBM DB2 BENEFITS

- Provides system availability, scalability, security, and cost effectiveness
- Self-tuning memory management
- DB2 12 offers up to 23% lower CPU cost through advanced in-memory techniques
- Application support for cloud, analytics, and mobile

*NOTE: This information applies to MicroStrategy 10.6.
For other versions, please refer to the readme file for specific compatibility information.*

DRIVER SUPPORT

MICROSTRATEGY PRODUCT	DATA SOURCE	DRIVER	I-SERVER OS
DESKTOP	IBM DB2 11.1, IBM DB2 10.5, IBM DB2 10.0, IBM DB2 9.7	MicroStrategy JDBC Driver for DB2	Mac
		MicroStrategy ODBC Driver for DB2 Wire Protocol	Windows 64-bit
SERVER	IBM DB2 11.1, IBM DB2 10.5, IBM DB2 10.0, IBM DB2 9.7	MicroStrategy ODBC Driver for DB2 Wire Protocol	Linux
			Windows 64-bit

SUPPORTED PUSH-DOWN FUNCTIONS	SUPPORTED DATA TYPES
MicroStrategy is able to push about 105 analytical functions down to the database, leveraging the power of the data source to deliver faster query performance.	MicroStrategy supports 19 out of 20 IBM DB2 data types, allowing dashboard designers to bring in the critical information they need for analysis.
<p>The following types of functions can be pushed down to the database level:</p> <ul style="list-style-type: none"> • Basic • OLAP • Date-time • Mathematical • Statistical • String 	<p>The MicroStrategy connector supports the following types of data for IBM DB2:</p> <ul style="list-style-type: none"> • SmallInt • Integer • BigInt • Decimal • Numeric • Real • Double • Char • Varchar • Long varchar • Clob • Graphic • Vargraphic • DBclob • Blob • Date • Time • Timestamp • XML

LATEST SUPPORTED VERSION

IBM DB2 9.7 and higher

SUPPORTED DRIVERS

MicroStrategy integrates with IBM DB2 for Linux, UNIX, and Windows via ODBC drivers (ODBC and JDBC) and the SQL query language.

SUPPORTED CONNECTION MODES

MicroStrategy supports both DSN and DSN-less connectivity to IBM DB2.

SUPPORTED AUTHENTICATION MODES

- Server authentication (User ID and Password)

QUERY OPTIMIZATIONS

- Reduced the number of SQL passes generated for each query via the SQL Global Optimization setting
- Combine multiple sub-queries into a single sub-query with the Set Operator Optimization setting
- Optimize performance with parameterized bulk inserts

To see the full list of data connectors, [click here](#) or scan the QR code.

