

# SQL database drivers

The database/sql and database/sql/driver packages are designed for using databases from Go and implementing database drivers, respectively.

See the design goals doc:

<http://golang.org/src/pkg/database/sql/doc.txt>

## Drivers

Drivers for Go's sql package include:

- **Apache H2:** <https://github.com/jmrobles/h2go>
- **Apache Ignite/GridGain:** <https://github.com/amsokol/ignite-go-client>
- **Apache Impala:** <https://github.com/bippio/go-impala>
- **Apache Avatica/Phoenix:** <https://github.com/apache/calcite-avatica-go>
- **Amazon AWS Athena:** <https://github.com/uber/athenadriver>
- **AWS Athena:** <https://github.com/segmentio/go-athena>
- **Azure Cosmos DB:** <https://github.com/btnguyen2k/gocosmos>
- **ClickHouse** (uses [native TCP interface](#)): <https://github.com/ClickHouse/clickhouse-go>
- **ClickHouse** (uses [HTTP API](#)): <https://github.com/mailru/go-clickhouse>
- **CockroachDB:** Use any PostgreSQL driver
- **Couchbase N1QL:** [https://github.com/couchbase/go\\_n1ql](https://github.com/couchbase/go_n1ql)
- **DB2 LUW** and **DB2/Z with DB2-Connect:** <https://bitbucket.org/phiggins/db2cli> (Last updated 2015-08)
- **DB2 LUW** (uses cgo): <https://github.com/asifjalil/cli>
- **DB2 LUW, z/OS, iSeries and Informix:** [https://github.com/ibmdb/go\\_ibm\\_db](https://github.com/ibmdb/go_ibm_db)
- **Exasol:** (pure Go): <https://github.com/exasol/exasol-driver-go>
- **Firebird SQL:** <https://github.com/nakagami/firebirdsql>
- **Genji** (pure go): <https://github.com/genjldb/genji>
- **Google Cloud BigQuery:** <https://github.com/solcastes/go-sql-bigquery>
- **Google Cloud Spanner:** <https://github.com/rakyll/go-sql-driver-spanner>
- **MS ADODB:** <https://github.com/matttn/go-adodb>
- **MS SQL Server** (pure go): <https://github.com/denisenkom/go-mssqldb>
- **MS SQL Server** (uses cgo): <https://github.com/minus5/gofreetds>
- **MySQL:** <https://github.com/go-sql-driver/mysql/> [ \* ]
- **MySQL:** <https://github.com/siddontang/go-mysql/> [ \*\* ] (also handles replication)
- **MySQL:** <https://github.com/ziutek/mymysql> [ \* ]
- **ODBC:** <https://bitbucket.org/miquella/mgodbc> (Last updated 2016-02)
- **ODBC:** <https://github.com/alexbrainman/odbc>
- **Oracle** (uses cgo): <https://github.com/matttn/go-oci8>
- **Oracle** (uses cgo): <https://gopkg.in/rana/ora.v4>
- **Oracle** (uses cgo): <https://github.com/godror/godror>
- **Oracle** (pure go): <https://github.com/sijms/go-ora>
- **QL:** <https://pkg.go.dev/github.com/cznic/ql/driver>
- **Postgres** (pure Go): <https://github.com/lib/pq> [ \* ]
- **Postgres** (uses cgo): <https://github.com/jbarham/gopgsqldriver>
- **Postgres** (pure Go): <https://github.com/jackc/pgx> [ \* ]
- **Presto:** <https://github.com/prestodb/presto-go-client>

- **SAP HANA** (uses cgo): <https://help.sap.com/viewer/0eec0d68141541d1b07893a39944924e/2.0.03/en-US/0ffbe86c9d9f44338441829c6bee15e6.html>
- **SAP HANA** (pure go): <https://github.com/SAP/go-hdb>
- **SAP ASE** (pure go): <https://github.com/SAP/go-ase>
- **SAP ASE** (uses cgo): <https://github.com/SAP/cgo-ase>
- **SingleStore**: Use any MySQL driver
- **Snowflake** (pure Go): <https://github.com/snowflakedb/gosnowflake>
- **SQLite** (uses cgo): <https://github.com/mattn/go-sqlite3> [\*]
- **SQLite** (uses cgo): <https://github.com/gwenn/gosqlite> - Supports SQLite dynamic data typing
- **SQLite** (uses cgo): <https://github.com/mxk/go-sqlite>
- **SQLite**: (uses cgo): <https://github.com/rsc/sqlite>
- **SQLite**: (pure go): <https://modernc.org/sqlite>
- **SQL over REST**: <https://github.com/adaptant-labs/go-sql-rest-driver>
- **Sybase SQL Anywhere**: <https://github.com/a-palchikov/sqlago>
- **Sybase ASE** (pure go): <https://github.com/thda/tds>
- **TiDB**: Use any MySQL driver
- **Vertica**: <https://github.com/vertica/vertica-sql-go>
- **Vitess**: <https://pkg.go.dev/vitess.io/vitess/go/vt/vitessdriver>
- **YQL (Yahoo! Query Language)**: <https://github.com/mattn/go-yql>
- **Apache Hive**: <https://github.com/sql-machine-learning/gohive>
- **MaxCompute**: <https://github.com/sql-machine-learning/gomaxcompute>

Drivers marked with [\*] are both included in and pass the compatibility test suite at <https://github.com/bradfitz/go-sql-test>. Drivers marked with [\*\*] pass the compatibility test suite but are not currently included in it.