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PRODUCT DOCUMENTATION

CacheDB MySQL Proxy Compatibility

What CacheDB does

CacheDB is a transparent database proxy that can serve eligible read queries from a Redis-compatible cache while sending database writes to the backend. It preserves the application's MySQL SQL and driver. Cache lifetimes can be set by query, and scripts can define how writes invalidate affected cached data. Applications can begin in transparent observation mode before enabling cache behavior.

Proxy and compatibility model

The MySQL Proxy speaks the MySQL client/server protocol on the application side and connects to MySQL-compatible servers on the backend side. Applications continue to use their regular MySQL connector; CacheDB does not translate SQL dialects. Compatibility depends on the server release, client driver, authentication and TLS configuration, and which protocol features the application uses. The version and driver entries below are not a claim that every combination has been tested.

MySQL server versions

Database release	Status	Qualification detail
MySQL Community 26.7	Validated	Included in the October 2026 validation campaign.
MySQL 8.0 and 5.7	Not validated	Not included in the current compatibility record. Qualify the exact release and configuration.
MariaDB	Not validated	MySQL protocol compatibility is expected for common workflows, but qualify the exact MariaDB release and features.

Client and runtime coverage

Client / runtime	Version or build	Status and notes
Rust mysql crate	28.0	Validated.
Rust sqlx	0.8	Validated.
MariaDB Connector/C (libmariadb)	3.4	Validated.
MySQL Connector/J (Java)	Not version-pinned	Not individually validated; expected for standard protocol workflows.
Connector/NET (.NET), PHP mysqli / PDO, Python mysqlclient / PyMySQL, mysql CLI	Not version-pinned	Not individually validated in the current record. Qualify exact client and authentication settings.

Important integration points

- **TLS:** client-to-proxy and proxy-to-database encryption are configured on their respective connections. TLS 1.2 or newer is supported; verify certificate trust and hostname settings in the target deployment.
- **Authentication:** qualify the configured MySQL authentication plugin and credentials with the selected server and driver.
- **Compression:** compressed MySQL protocol connections are unsupported.
- **Local file loading:** LOCAL INFILE is refused by the proxy.
- **Cache eligibility:** multi-statement requests and prepared statements using long data are relayed without caching. Requests larger than the inspection limit are passed through without cache inspection.
- **SQL behavior:** CacheDB does not rewrite MySQL SQL. Cache use and invalidation remain subject to the configured policy and whether the request can be inspected.

For a production compatibility decision, qualify the precise server patch level, connector version, authentication, TLS, and representative application queries in a proof of concept.