Using an external MySQL database

The information on this page refers to License Statistics v6.18 or newer, which upgraded MySQL to v8.0. If you are using an earlier version of License Statistics, please refer to the documentation for releases prior to v6.18.

By default, License Statistics uses an embedded MySQL database delivered with the application. The embedded database will be automatically installed and configured until you change your configuration.

ⓘ Although the embedded database is easier to use and more convenient for getting started with License Statistics, we strongly recommend using it **only for testing and evaluation** purposes.

For production environments, using an external database has advantages such as:

- Increased data protection when stored on a host different from the License Statistics server
- Ability to customize database settings to optimize performance

ⓘ Note that License Statistics supports only MySQL 8.0.x. Other versions are not supported.

To use an external database with License Statistics:

1. Create the database. For example, type the following in the MySQL console:

   ```
   mysql> CREATE DATABASE database_name CHARACTER SET charset_name COLLATE collation_name;
   ```

   where:

Setting	Description	Example
database_name	Name of database	xformation_licstat
charset_name	Specifies the default database character set	utf8mb4
collation_name	Specifies the default database collation	utf8mb4_sv_0900_ai_ci

2. Edit the MySQL configuration file and add the options listed below. Performance-related settings can be changed as needed to values that are appropriate for the amount of data License Statistics pushes through the database.

   ```
   sql_mode = ONLY_FULL_GROUP_BY,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,
   NO_ENGINE_SUBSTITUTION,NO_UNSIGNED_SUBTRACTION

   sort_buffer_size = 8M
   join_buffer_size = 8M
   group_concat_max_len = 30000

   innodb_buffer_pool_size = 12G
   innodb_redo_log_capacity = 1024M
   innodb_rollback_on_timeout = 1
   innodb_thread_concurrency = 16

   max_connections=500
   ```

3. Restart the MySQL server.

   ⓘ **Note**: Each time you restart the MySQL server, ensure it reads the proper configuration file.

4. Edit the following settings in the configuration file (xflicstat.cfg):

Setting	Description

MYSQL_SERVER	MySQL server name or IP address.
MYSQL_PORT	3306 (default).
MYSQL_USERNAME	Username for the account created in the License Statistics database.
MYSQL_PASSWORD	Password for the account created in the License Statistics database.
MYSQL_DATABASE	Name of the database created for License Statistics.