# Setting Up the world\_x Database

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This document describes world\_x sample database installation, structure, usage, and history.

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For help with using MySQL, please visit the MySQL Forums, where you can discuss your issues with other MySQL users.

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# **1 Preface and Legal Notices**

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# **2** Installation

To enable MySQL users to perform manipulation of the world\_x sample database using MySQL, the data set is available as a set of four tables:

- country: Information about countries of the world.
- city: Information about some of the cities in those countries.
- countrylanguage: Languages spoken in each country.
- countryinfo: Information about each country represented as a JSON document.

The world\_x.sql file containing the world\_x database is available for download at https:// dev.mysql.com/doc/index-other.html. The file is provided as a compressed tar file or Zip archive.

#### Note

The world\_x database uses features specific to X DevAPI, and thus requires MySQL 5.7 or higher. A world database variant also exists that does not use X DevAPI features and may be used with MySQL 5.5 and higher. See Setting Up the world Database.

To install the world\_x sample database, follow these steps:

- Download the installation archive to a temporary location such as C:\temp\ or /tmp/ and unpack it. Unpacking the archive results in a directory named world\_x-db containing files named README.txt and world\_x.sql.
- 2. Execute the world\_x.sql script to create the database structure and insert the data using one of the following methods:
  - Using MySQL Shell:

```
$> mysqlsh -u root --sql --file C:\temp\world_x-db\world_x.sql
```

Using the standard MySQL command-line client:

Connect to MySQL:

\$> mysql -u root -p

From the mysql client, load the file:

```
mysql> SOURCE C:/temp/world_x-db/world_x.sql;
```

Enter your password when prompted. A non-root account can be used, provided that the account has privileges to create new databases.

Replace the path to the world\_x.sql file with the actual path on your system.

#### Note

On Windows, use slashes rather than backslashes when executing the SOURCE command.

3. To confirm that the sample world\_x database is installed correctly, execute the following statements. You should see output similar to that shown here.

```
mysql> USE world_x;
Database changed
mysql> SHOW TABLES;
+------+
| Tables_in_world_x |
+-----+
| city |
| country |
| countryinfo |
| countrylanguage |
```

```
+-----+
4 rows in set (0.00 sec)
mysql> SELECT COUNT(*) FROM city;
+-----+
| COUNT(*) |
+-----+
1 row in set (0.02 sec)
mysql> SELECT COUNT(*) FROM country;
+----+
| COUNT(*) |
+----+
1 row in set (0.00 sec)
```

You now have the world\_x sample database installed.

Another popular sample database is the Sakila database. For additional details, see http://dev.mysql.com/doc/sakila/en/.

### **3 History**

September 2016

Prior releases used mixed-case table names. Because MySQL Shell is case-sensitive, table names are changed to lowercase.

December 2019

USE world\_x;

The world\_x.sql file was changed to address several issues:

• The world\_x database used utf8, but MySQL as of 8.0 uses a default character set of utf8mb4. Converting the database to use utf8mb4 brings it up to date with MySQL 8.0, while retaining compatibility with older series.

Conversion of the database to utf8mb4 was done as follows:

SET SESSION foreign\_key\_checks=1;

Using mysqldump with options of --default-character-set=utf8mb4 to set the character set and --set-charset so the dump includes SET NAMES for that character set writes a utf8mb4-encoded dump file.

- MySQL 8.0.17 deprecates these features:
  - Number of digits in floating-point column definitions; for example, FLOAT(10,2).

• Display width in integer column definitions; for example, INT(10).

The world\_x.sql file used both features, causing load warnings in MySQL 8.0.17 and higher.

To avoid number of digits in FLOAT columns, it is necessary to manually alter the relevant column. That was done as follows, by altering FLOAT(M, D) to DECIMAL(M, D):

```
USE world_x;
```

```
ALTER TABLE countrylanguage
MODIFY Percentage DECIMAL(4,1) NOT NULL DEFAULT '0.0';
```

To produce integer column definitions without display widths in the dump file, it suffices to use mysqldump from MySQL 8.0.19 or higher.