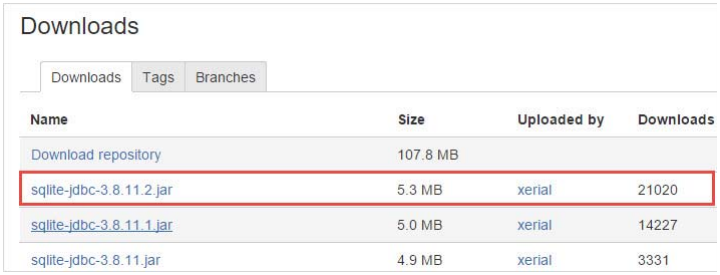
SQLite Java: Connect To The SQLite Database Using SQLite JDBC Driver

Summary: in this tutorial, we will show you how to download SQLite JDBC Driver and connect to the SQLite database via JDBC.

Download SQLite JDBC Driver

To download the latest version of SQLite JDBC Driver, you go to the download page on bitbucket. You should download the latest version of the driver. As of this writing, the latest version is 3.8.11.2.

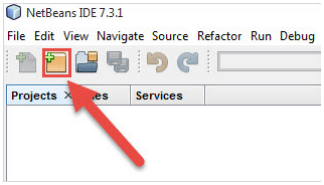
The JAR file includes both Java class files and SQLite binaries for Mac OX S, Linux, and Windows, Both 32-bit and 64-bit.



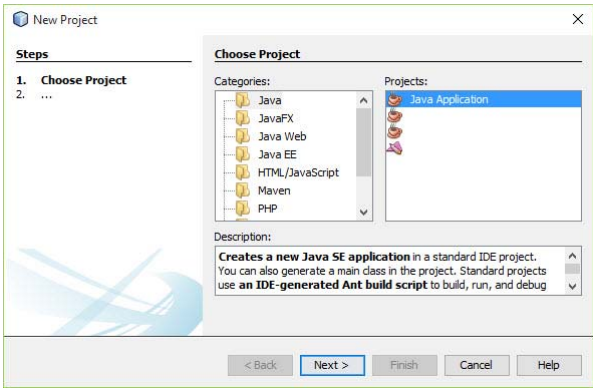
Add SQLite JDBC Driver JAR file to a Java project

We will use NetBean IDE for developing Java SQLite applications.

First, create a new project from NetBean by clicking the New Project... button on the toolbar.



Next, choose Java Application and click the Next button.

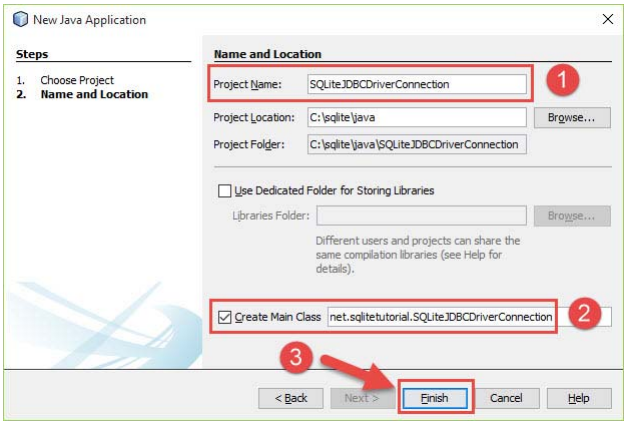


GETTING STARTED

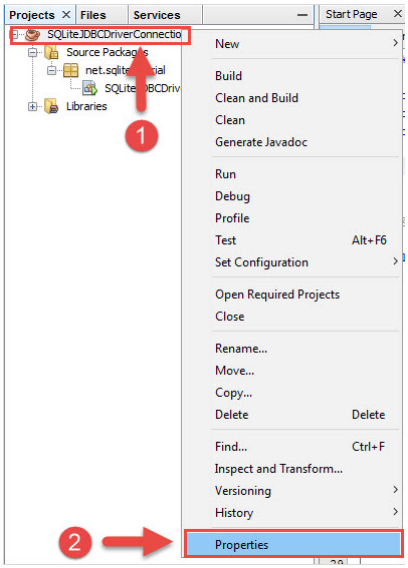
What Is SQLite
Download & Install SQLite
SQLite Sample Database
SQLite Commands

SQLITE TUTORIAL

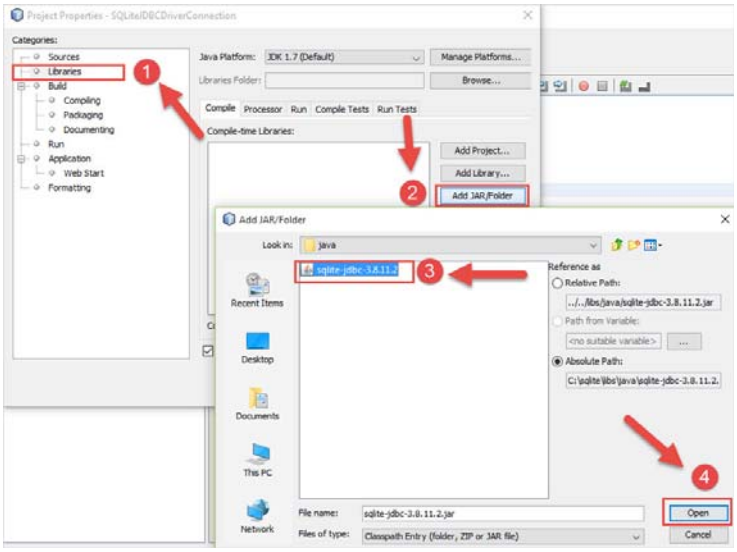
SQLite Select
SQLite Order By
SQLite Select Distinct
SQLite Where
SQLite Limit
SQLite BETWEEN
SQLite IN
SQLite Like
SQLite GLOB
SQLite Left Join
SQLite Inner Join
SQLite Cross Join
SQLite Self-Join
SQLite Full Outer Join
SQLite Group By
SQLite Having
SQLite Union
SQLite Except
SQLite Intersect
SQLite Subquery
SQLite EXISTS
SQLite Case
SQLite Insert
SQLite Update
SQLite Delete
SQLite Replace
SQLite Transaction



After that, to add the SQLite JDBC Driver Jar file to the project, right mouse click on the project name and choose Properties.



Finally, select Libraries (1) in the Categories of the Project Properties windows. Then click on the Add JAR/Folder button (2), choose the SQLite JDBC JAR file (3), and click the Open button (4).



SQLite connection string

SQLITE DATA DEFINITION

SQLite Data Types
SQLite Date & Time
SQLite Create Table
SQLite Primary Key
SQLite Foreign Key
SQLite NOT NULL Constraint
SQLite UNIQUE Constraint
SQLite CHECK Constraint
SQLite AUTOINCREMENT
SQLite Alter Table
SQLite Drop Table
SQLite Create View
SQLite Index
SQLite Expression Based Index
SQLite Trigger
SQLite VACUUM
SQLite Transaction
SQLite Full-text Search

SQLITE TOOLS

SQLite Commands
SQLite Show Tables
SQLite Describe Table
SQLite Dump
SQLite Import CSV
SQLite Export CSV

SQLITE FUNCTIONS

SQLite AVG
SQLite COUNT
SQLite MAX
SQLite MIN
SQLite SUM

SQLITE INTERFACES

SQLite PHP

SQLite Python

```
jdbc:sqlite:sqlite_database_file_path
```

The `sqlite_data_file_path` is the path to the SQLite database file, which is either relative or absolute path as follows:

```
jdbc:sqlite:sample.db
```

Or

```
jdbc:sqlite:C:/sqlite/db/chinook.db
```

To connect to an in-memory database, you use the following connection string:

```
jdbc:sqlite::memory
```

Connect to a SQLite database via JDBC

The following program connects to the SQLite sample database chinook.

```
package net.sqlitetutorial;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

/**
 *
 * @author sqlitetutorial.net
 */
public class SQLiteJDBCDriverConnection {
    /**
     * Connect to a sample database
     */
    public static void connect() {
        Connection conn = null;
        try {
            // db parameters
            String url = "jdbc:sqlite:C:/sqlite/db/chinook.db";
            // create a connection to the database
            conn = DriverManager.getConnection(url);

            System.out.println("Connection to SQLite has been established.");

        } catch (SQLException e) {
            System.out.println(e.getMessage());
        } finally {
            try {
                if (conn != null) {
                    conn.close();
                }
            } catch (SQLException ex) {
                System.out.println(ex.getMessage());
            }
        }
    }
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        connect();
    }
}
```

Let's run it.

```
Connection to SQLite has been established.
```

It works as expected.

In this tutorial, we have shown you how to use the SQLite JDBC driver to connect to an SQLite database.

Next Tutorial:
SQLite Java: Create a New SQLite Database »

SQLite Tutorial website helps you master SQLite quickly and easily. It explains the complex concepts in simple and easy-to-understand ways so that you can both understand SQLite fast and know how to apply it in your software development work more effectively.

LOOKING FOR A TUTORIAL...

If you did not find the tutorial that you are looking for, you can use the following search box. In case the tutorial is not available, you can request for it using the request for a SQLite tutorial form.

Search this website ...

SQLite Window Frame
SQLite CUME_DIST
SQLite PERCENT_RANK
SQLite DENSE_RANK
SQLite NTILE
SQLite NTH_VALUE
SQLite LAST_VALUE
SQLite FIRST_VALUE

Home
About
Contact
Resources
Privacy Policy