



Quickstart

[Embedding H2 in an Application](#)
[The H2 Console Application](#)

[Translate](#)

Search:

[Home](#)

[Download](#)

[Cheat Sheet](#)

Documentation

[Quickstart](#)

[Installation](#)

[Tutorial](#)

[Features](#)

[Performance](#)

[Advanced](#)

Reference

[Commands](#)

[Functions](#)

• [Aggregate](#) • [Window](#)

[Data Types](#)

[SQL Grammar](#)

[System Tables](#)

[Javadoc](#)

[PDF \(1.5 MB\)](#)

Support

[FAQ](#)

[Error Analyzer](#)

[Google Group \(English\)](#)

[Google Group \(Japanese\)](#)

[Google Group \(Chinese\)](#)

Appendix

[History & Roadmap](#)

[License](#)

[Build](#)

[Links](#)

[MVStore](#)

[Architecture](#)

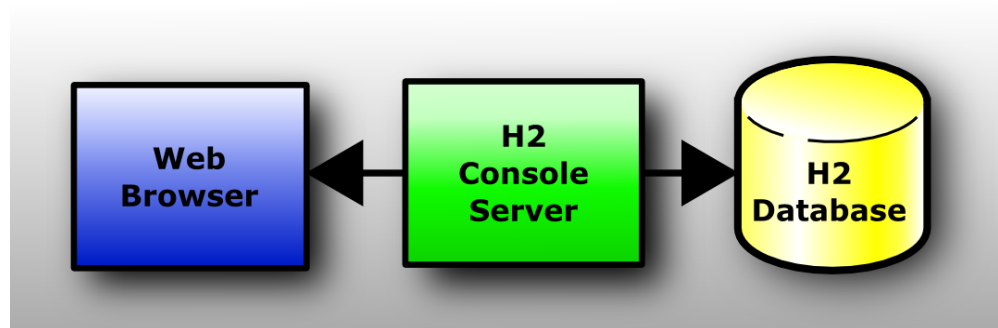
Embedding H2 in an Application

This database can be used in embedded mode, or in server mode. To use it in embedded mode, you need to:

- Add the `h2*.jar` to the classpath (H2 does not have any dependencies)
- Use the JDBC driver class: `org.h2.Driver`
- The database URL `jdbc:h2:~/test` opens the database `test` in your user home directory
- A new database is automatically created

The H2 Console Application

The Console lets you access a SQL database using a browser interface.



If you don't have Windows XP, or if something does not work as expected, please see the detailed description in the [Tutorial](#).

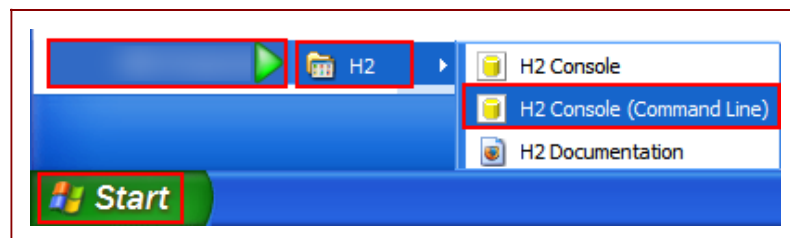
Step-by-Step

Installation

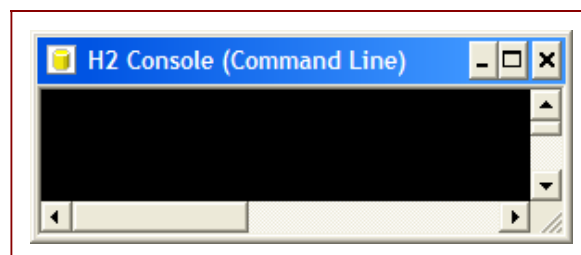
Install the software using the Windows Installer (if you did not yet do that).

Start the Console

Click [Start], [All Programs], [H2], and [H2 Console (Command Line)]:



A new console window appears:

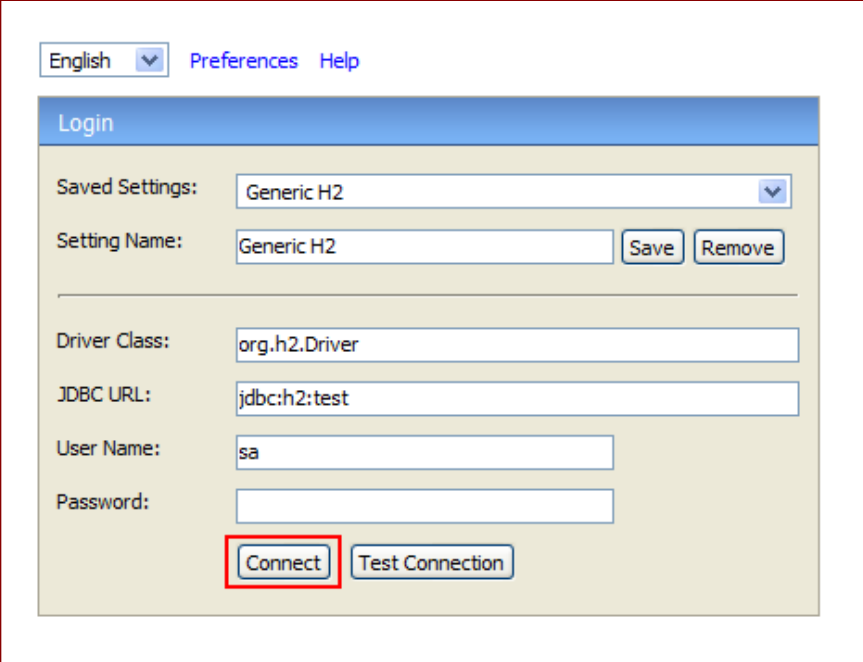


Also, a new browser page should open with the URL <http://localhost:8082>. You may get a security

- ▲ warning from the firewall. If you don't want other computers in the network to access the database on your machine, you can let the firewall block these connections. Only local connections are required at this time.

Login

Select [Generic H2] and click [Connect]:



The screenshot shows the H2 database login window. At the top, there is a language dropdown set to 'English' and links for 'Preferences' and 'Help'. The main section is titled 'Login'. It contains a 'Saved Settings' dropdown menu with 'Generic H2' selected. Below this is a 'Setting Name' field with 'Generic H2' entered, and 'Save' and 'Remove' buttons. A horizontal line separates this from the connection details. The 'Driver Class' field contains 'org.h2.Driver', the 'JDBC URL' field contains 'jdbc:h2:test', the 'User Name' field contains 'sa', and the 'Password' field is empty. At the bottom, there are two buttons: 'Connect' (which is highlighted with a red rectangular box) and 'Test Connection'.

You are now logged in.

Sample

Click on the [Sample SQL Script]:

jdbc:h2:test

+

INFORMATION_SCHEMA

+

Users

Run

Clear

SQL statement:

Important Commands

Icon	Action
	Displays this Help Page
	Shows the Command History
	Executes the current SQL statement
	Disconnects from the database

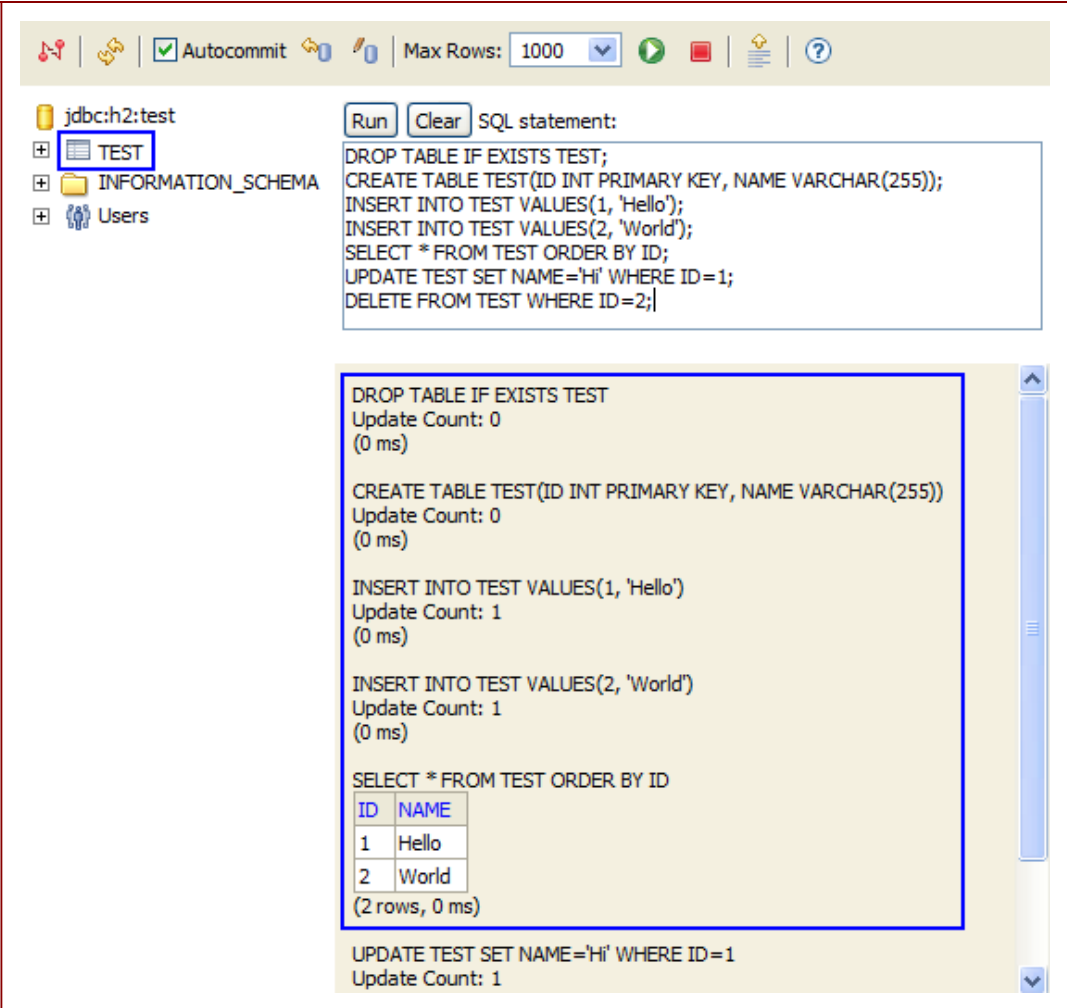
Sample SQL Script

Operations	SQL statements
Delete the table if it exists	DROP TABLE IF EXISTS TEST;
Create a new table with ID and NAME columns	CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255));
Add a new row	INSERT INTO TEST VALUES(1, 'Hello');
Add another row	INSERT INTO TEST VALUES(2, 'World');
Query the table	SELECT * FROM TEST ORDER BY ID;
Change data in a row	UPDATE TEST SET NAME='Hi' WHERE ID=1;
Remove a row	DELETE FROM TEST WHERE ID=2;

The SQL commands appear in the command area.

Execute

the statements are shown below the script.



The screenshot shows the H2 Database Quickstart console window. The top toolbar includes icons for connection, execution, and settings, along with a checked 'Autocommit' box and a 'Max Rows' dropdown set to 1000. The left sidebar shows the database structure: 'jdbc:h2:test' with a table 'TEST' selected, and folders for 'INFORMATION_SCHEMA' and 'Users'. The main area displays the SQL script and its execution results.

SQL statement:

```
DROP TABLE IF EXISTS TEST;  
CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255));  
INSERT INTO TEST VALUES(1, 'Hello');  
INSERT INTO TEST VALUES(2, 'World');  
SELECT * FROM TEST ORDER BY ID;  
UPDATE TEST SET NAME='Hi' WHERE ID=1;  
DELETE FROM TEST WHERE ID=2;
```

Execution results:

```
DROP TABLE IF EXISTS TEST  
Update Count: 0  
(0 ms)  
  
CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255))  
Update Count: 0  
(0 ms)  
  
INSERT INTO TEST VALUES(1, 'Hello')  
Update Count: 1  
(0 ms)  
  
INSERT INTO TEST VALUES(2, 'World')  
Update Count: 1  
(0 ms)  
  
SELECT * FROM TEST ORDER BY ID  


| ID | NAME  |
|----|-------|
| 1  | Hello |
| 2  | World |

  
(2 rows, 0 ms)  
  
UPDATE TEST SET NAME='Hi' WHERE ID=1  
Update Count: 1
```

Disconnect

Click on [Disconnect]:



to close the connection.

End

Close the console window. For more information, see the [Tutorial](https://www.h2database.com/html/quickstart.html).