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고급 자바 프로그래밍 : STS를 이용한 Spring 프로그래밍

<https://github.com/hopypark>

hopypark

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데이터베이스 구축

H2-<http://h2database.com>

The screenshot shows a web browser window with the URL h2database.com/html/main.html in the address bar. The page content is as follows:

H2 Database Engine

Welcome to H2, the Java SQL database. The main features of H2 are:

- Very fast, open source, JDBC API
- Embedded and server modes; in-memory databases
- Browser based Console application
- Small footprint: around 1.5 MB jar file size

Download

Version 1.4.195 (2017-04-23)

[Windows Installer \(5 MB\)](#)

[All Platforms \(zip, 8 MB\)](#) (This link is highlighted with a red box)

[All Downloads](#)

Support

[Stack Overflow \(tag H2\)](#)

[Google Group English](#), [Japanese](#)

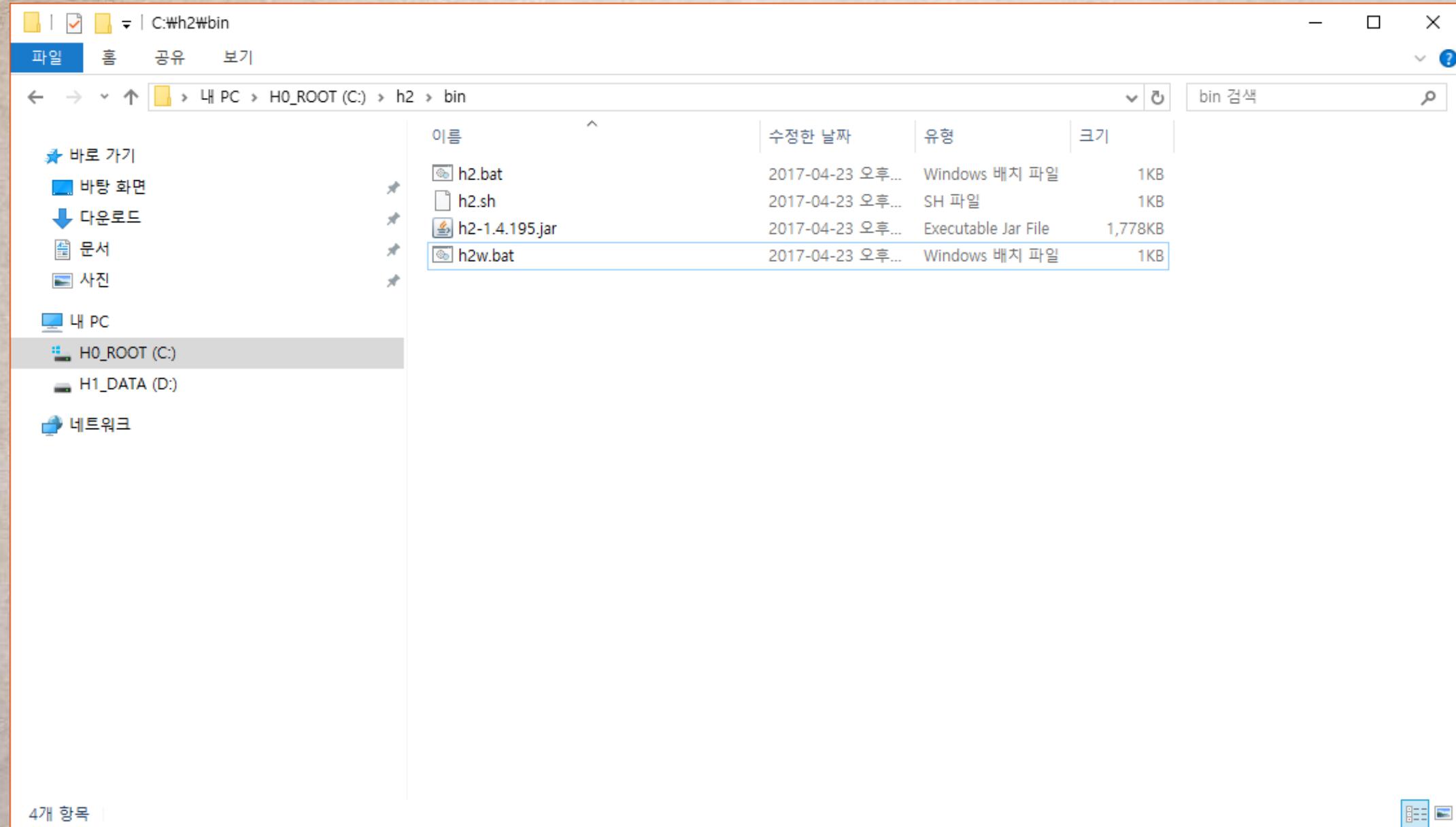
For non-technical issues, use:
dbsupport at h2database.com

Features

	H2	Derby	HSQldb	MySQL	PostgreSQL
Pure Java	Yes	Yes	Yes	No	No
Memory Mode	Yes	Yes	Yes	No	No
Encrypted Database	Yes	Yes	Yes	No	No
ODBC Driver	Yes	No	No	Yes	Yes
Fulltext Search	Yes	No	No	Yes	Yes
Multi Version Concurrency	Yes	No	Yes	Yes	Yes
Footprint (jar/dll size)	~1 MB	~2 MB	~1 MB	~4 MB	~6 MB

See also the [detailed comparison](#).

H2Database 실행 - h2→bin>h2w.bat 실행



H2 서버 - 구동

The screenshot shows the H2 Console interface. At the top, there is a browser-style header with tabs, a back/forward button, a search bar containing the URL `192.168.0.8:8082/login.jsp?jsessionid=d4aff355cd4063cbb1e5748deac75bb9`, and a star icon. Below the header is a toolbar with various icons. The main area is titled "로그인" (Login) and contains several input fields:

- 저장한 설정: Generic H2 (Embedded)
- 설정 이름: Generic H2 (Embedded) (with "저장" and "삭제" buttons)
- 드라이버 클래스: org.h2.Driver
- JDBC URL: jdbc:h2:/d:/workspace/java/H2/db
- 사용자명: sa
- 비밀번호: (empty field)

At the bottom of the form are two buttons: "연결" (Connect) and "연결 시험" (Test Connection). A red box highlights the language dropdown menu at the top left, which is set to "한국어". A red arrow points from a blue box containing the text "“한국어”로 변경" (Change to Korean) towards the language dropdown.

JDBC URL: jdbc:h2:/d:/workspace/java/H2/db

H2 서버 - 연결

The screenshot shows the H2 Console application window. The title bar reads "H2 콘솔". The address bar shows the URL "192.168.0.8:8082/login.do?jsessionid=d01f700eb56c6eb9d577922910474b48". The left sidebar displays the database connection details: "jdbc:h2:~/test", "INFORMATION_SCHEMA", "사용자", and "H2 1.4.195 (2017-04-23)". The main area contains a toolbar with various icons, a dropdown for "최대 행 수: 1000", and a "SQL 문:" input field with tabs for "실행" (Run Selected), "자동 완성" (Auto Complete), and "지우기" (Clear). Below the SQL input is a section titled "중요 명령" (Important Commands) with a table:

①	이 도움말 페이지 보기
₩	명령 이력 보기
Ctrl+엔터	현재의 SQL 문 실행
Shift+엔터	Executes the SQL statement defined by the text selection
Ctrl+Space	자동 완성
데이터베이스 연결 끊기	데이터베이스 연결 끊기

Below this is a section titled "샘플 SQL 스크립트" (Sample SQL Scripts) with a table:

테이블이 존재하는 경우 삭제하기	DROP TABLE IF EXISTS TEST;
새 테이블 만들기	CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255));
컬럼을 ID와 NAME	INSERT INTO TEST VALUES(1, 'Hello');
행 추가	INSERT INTO TEST VALUES(2, 'World');
행 추가	SELECT * FROM TEST ORDER BY ID;
테이블 질의	UPDATE TEST SET NAME='Hi' WHERE ID=1;
행 데이터 변경	DELETE FROM TEST WHERE ID=2;
행 삭제	
도움말	HELP ...

At the bottom, there is a section titled "데이터베이스 드라이버 추가" (Add Database Driver) with the following text:

데이터베이스 드라이버를 추가로 등록하려면 H2DRIVERS나 CLASSPATH 환경 변수에 드라이버의 Jar 파일 위치를 추가하면 됩니다. 예 (Windows): 데이터베이스 드라이버 라이브러리로 C:/Programs/hsqldb/lib/hsqldb.jar를 추가하려면 H2DRIVERS 환경 변수를 C:/Programs/hsqldb/lib/hsqldb.jar로 설정합니다.

H2 서버 - 테이블 생성 및 데이터 입력코드(sql문)

```
CREATE TABLE USERSC  
    ID VARCHAR2(8) PRIMARY KEY,  
    PASSWORD VARCHAR2(8),  
    NAME VARCHAR2(20),  
    ROLE VARCHAR2(5)  
);
```

USER 테이블

```
INSERT INTO USERS VALUES('test','test123','관리자','Admin');  
INSERT INTO USERS VALUES('user1','user1','홍길동','user');
```

```
CREATE TABLE BOARDG  
    SEQ NUMBER(5) PRIMARY KEY,  
    TITLE VARCHAR2(200),  
    WRITER VARCHAR2(20),  
    CONTENT VARCHAR2(2000),  
    REGDATE DATE DEFAULT SYSDATE,  
    CNT NUMBER(5) DEFAULT 0  
);
```

BOARD 테이블

```
INSERT INTO BOARD(SEQ, TITLE, WRITER, CONTENT) VALUES(1,'가입인사','관리자','잘 부탁드립니다.....');
```

H2 서버 - 입력 데이터 확인

The screenshot shows the H2 Console interface running in a browser window. The URL is 192.168.0.8:8082/login.do?jsessionid=d01f700eb56c6eb9d577922910474b48. The left sidebar lists database schemas: BOARD, USERS, INFORMATION_SCHEMA, and 사용자 (User). The main area contains two SQL queries and their results.

SQL 문:

```
select * from users;
select * from board;
```

select * from users;

ID	PASSWORD	NAME	ROLE
test	test123	관리자	Admin
user1	user1	홍길동	user

(2 행, 0 ms)

select * from board;

SEQ	TITLE	WRITER	CONTENT	REGDATE	CNT
1	가입인사	관리자	잘 부탁드립니다.....	2017-04-26	0

(1 row, 0 ms)