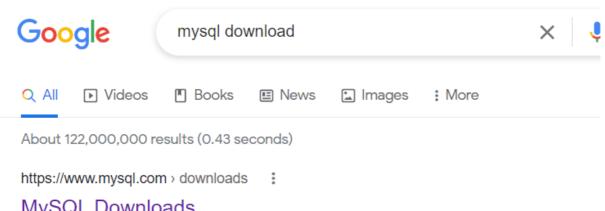
Class 230113

오라클 제거부터 하기

Hour 1

mysql



MySQL Downloads

MySQL Cluster CGE. MySQL Cluster is a real-time open source transactional database designed for fast, always-on access to data under high throughput ...

You've visited this page many times. Last visit: 1/12/23

MySQL Installer 8.0.31

(mysql-installer-web-community-8.0.31.0.msi) ...

MySQL Community Server

Linux - Generic (glibc 2.12) (x86, 32-bit), Compressed TAR ...

MySQL Community Downloads

MySQL Community Server · MySQL Cluster · MySQL ...

MySQL Workbench 8.0.31

The following LGPL libraries are used by MySQL Workbench and ...

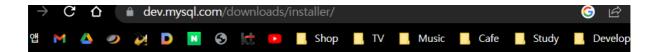
Class 230113 1



MySQL Community Downloads

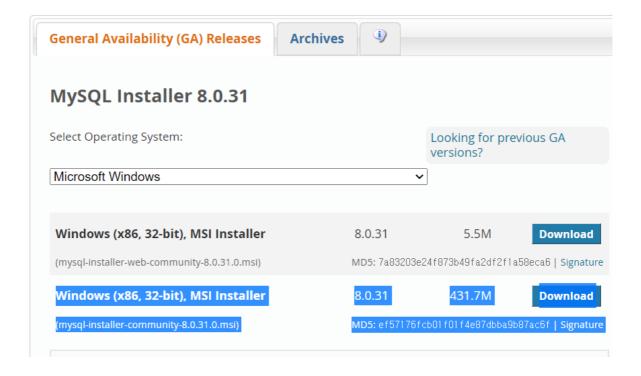
- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- MySQL Workbench
- MySQL Installer for Windows

- C API (libmysqlclient)
- Connector/C++
- Connector/
- Connector/NET
- · Connector/Node.js
- Connector/ODBC
- · Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives



MySQL Community Downloads

MySQL Installer



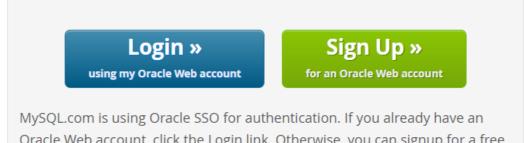


MySQL Community Downloads

Login Now or Sign Up for a free account.

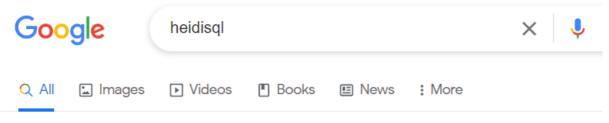
An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- · Report and track bugs in the MySQL bug system



Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.



About 349,000 results (0.31 seconds)

https://www.heidisql.com

HeidiSQL - MariaDB, MySQL, MSSQL, PostgreSQL and ...

HeidiSQL is free software, and has the aim to be easy to learn. "Heidi" lets you see and edit data and structures from computers running one of the database ...

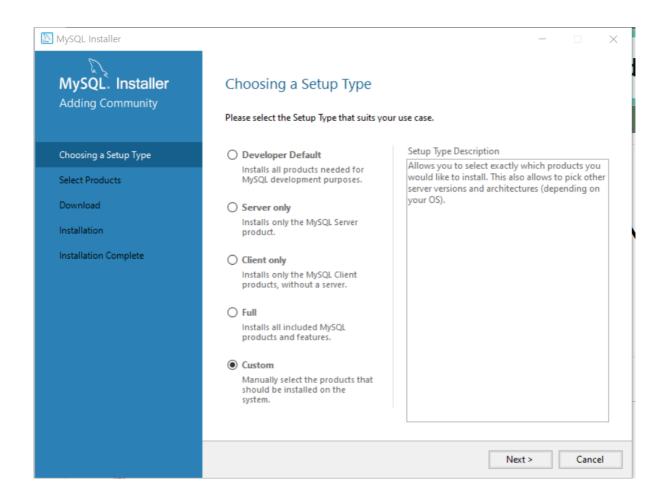
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Downloads

HeidiSQL runs fine on Windows 10 and 11 (and on Windows 7 + 8 ...

Basic help on using HeidiSQL

HeidiSQL is a so called client application, only usable when ...



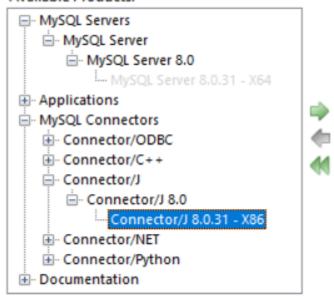
Custom

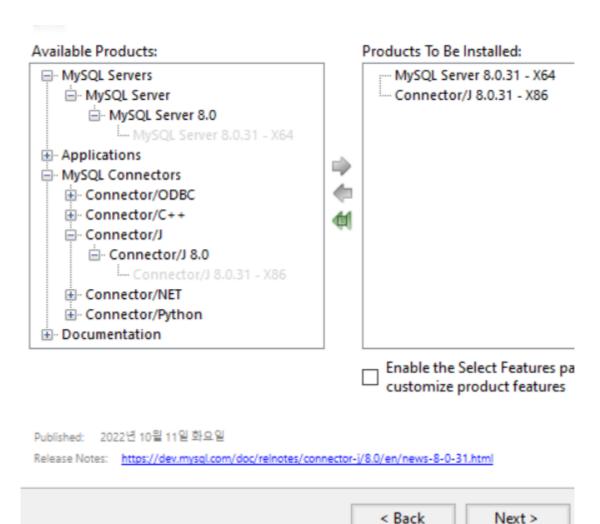
Manually select the products that should be installed on the system.

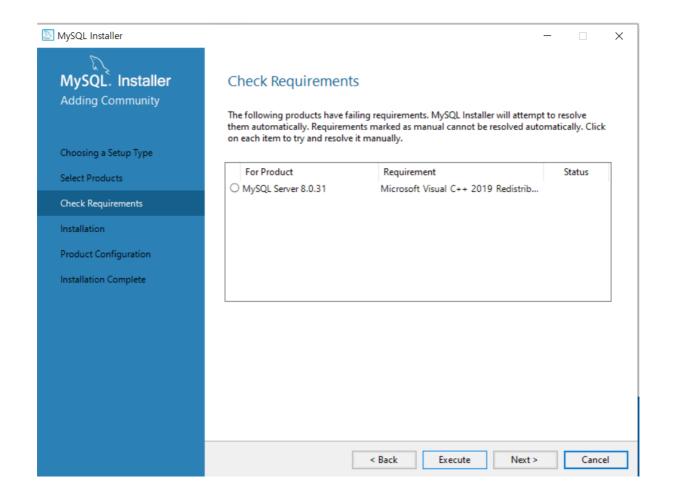
Next >



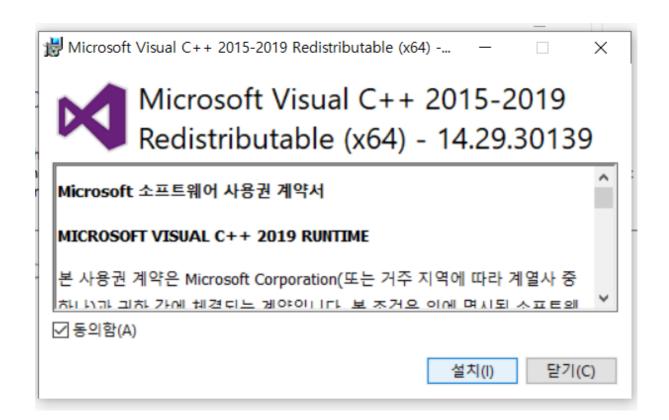
Available Products:







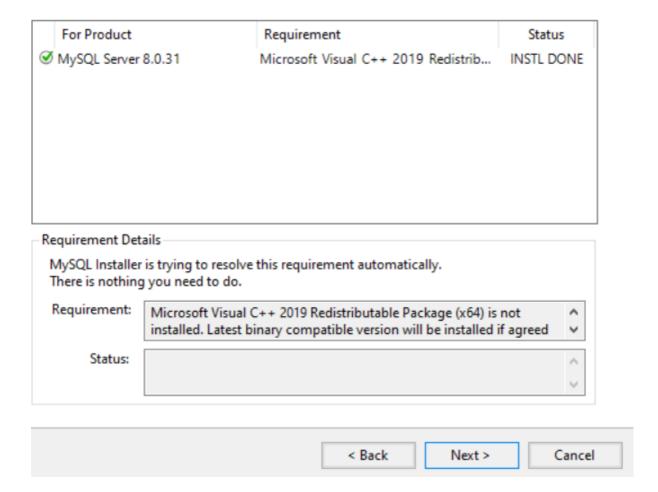
Execute Click !!!

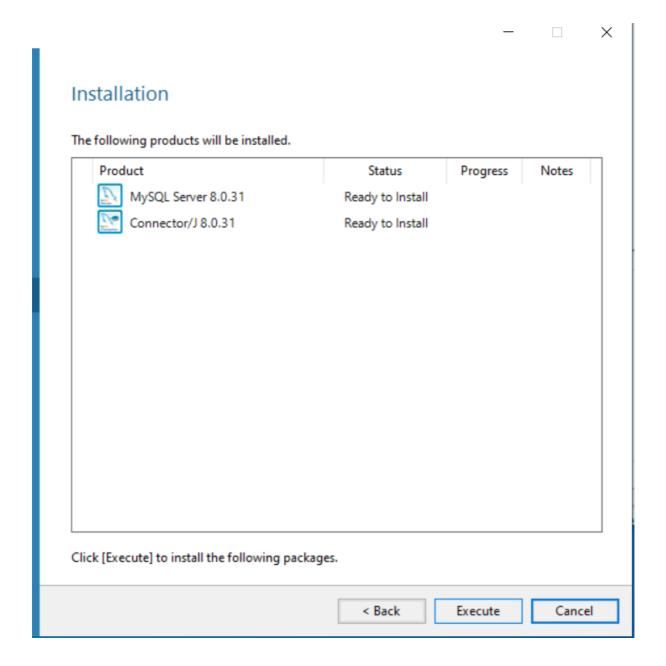


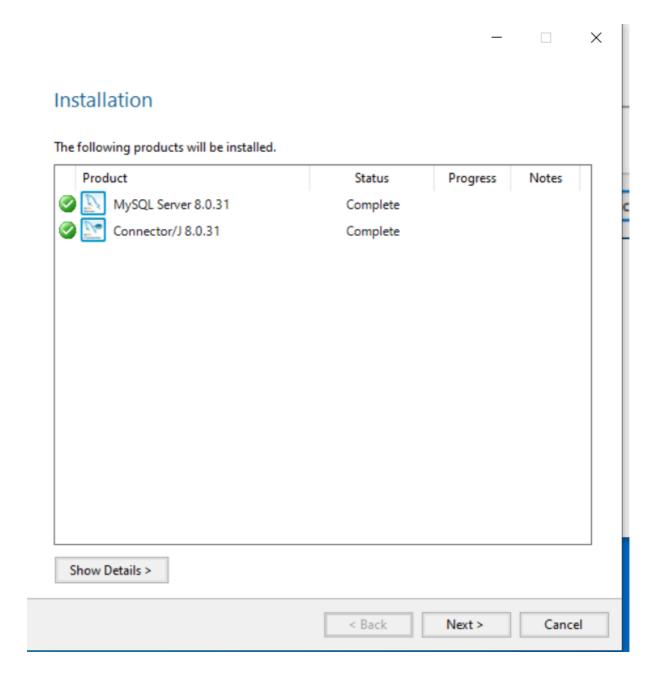
설치 클릭 !!!

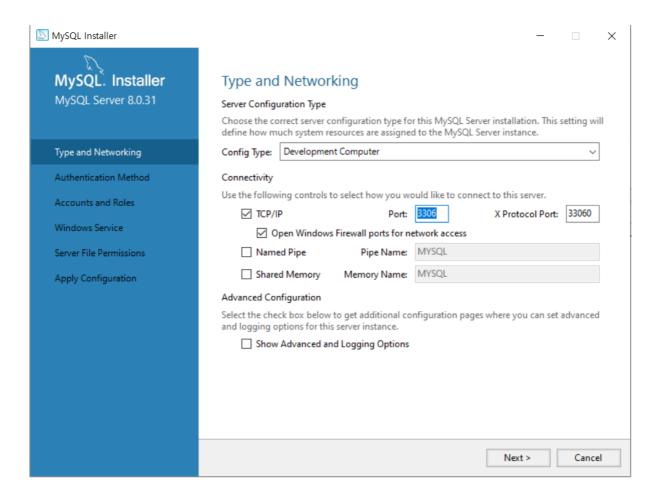
Check Requirements

The following products have failing requirements. MySQL Installer will attempt to resolve them automatically. Requirements marked as manual cannot be resolved automatically. Click on each item to try and resolve it manually.

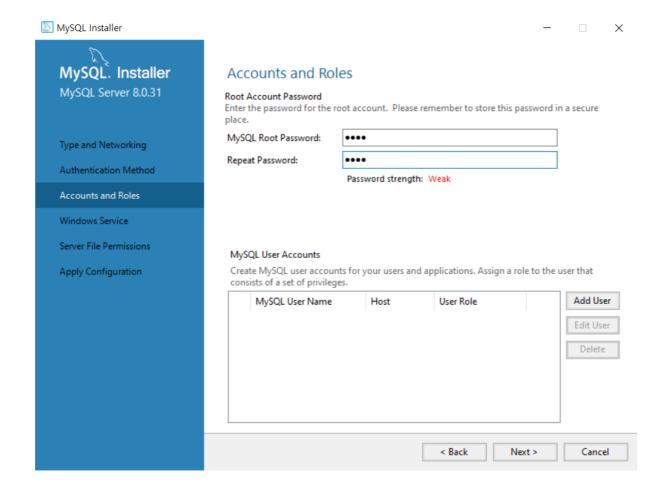




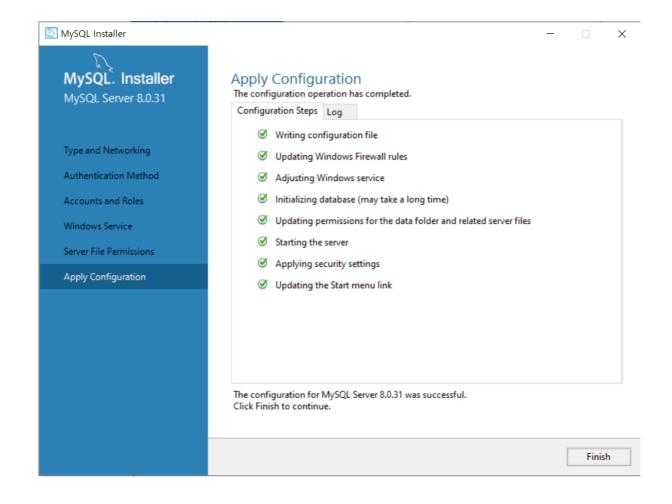


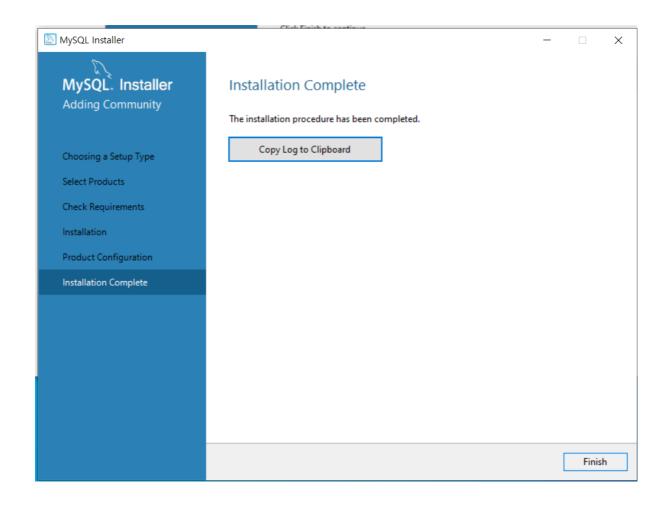


포트 번호는 반드시 3306을 사용해야만 한다.



암호는 0000으로 통일.



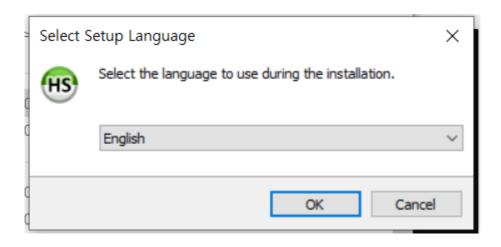


```
MySQL 8.0 Command Line Client
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or #g.
Your MySQL connection id is 11
Server version: 8.0.31 MySQL Community <u>Server - GPL</u>
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
  information_schema
 performance_schema
 SYS
4 rows in set (0.00 sec)
mysql>
```

Hour 2

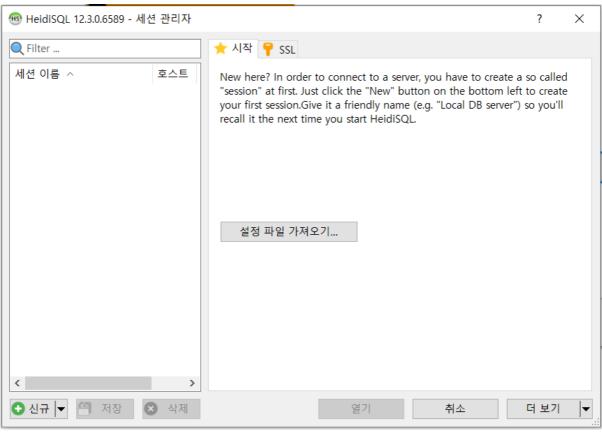
heidiSQL

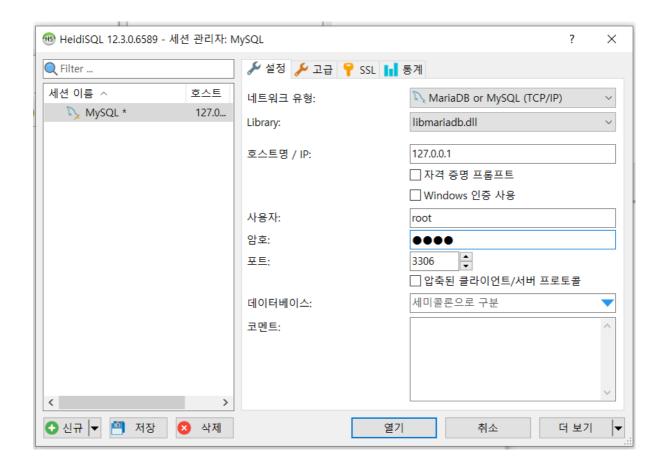
MySQL 와 MariaDB 를 사용하기 쉽게 도와준다.



설치시 설정이 별로 없음,

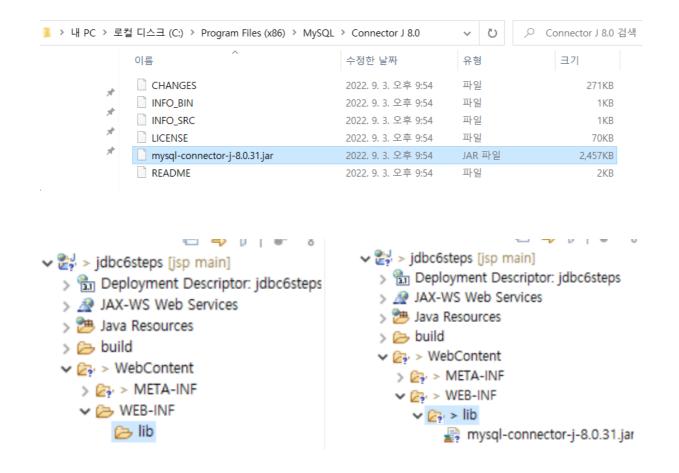






JSP 로 데이터 베이스를 사용하는 4가지 방법

- 1. 각각의 JSP 파일에서 매번 직접 DB 사용
- 2. DB 연결 부분만 별도의 File 로 구성
- 3. DB 연결 부분만 별도의 Class 로 구성
- 4. Connection Pool



jdbc basic

6 steps

Step 1 import SQL Packages

```
<!-- Step 1 import SQL Packages --> <%@ page import="java.sql.*" %>
```

• Step 2 load JDBC Driver

Step 3 create Connection Object

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
// Step 2 load JDBC Driver
   Class.forName("com.mysql.jdbc.Driver");
  }catch(ClassNotFoundException err) {
   out.print("JDBC Driver loading error<br>" + err.getMessage());
// Step 3 create Connection Object
  Connection conn = null;
  try {
   conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/","root","0000");
  }catch(SQLException err) {
    out.print("Connection Object error<br>" + err.getMessage());
%>
</body>
</html>
```

Step 4 create Statement Object

```
// Step 4 create Statement Object
PreparedStatement pstmt = conn.prepareStatement("CREATE DATABASE test");
```

Step 5 excute SQL Query

```
// Step 5 excute SQL Query
pstmt.executeUpdate();
```

• Step 6 close Connection (java 9 부터 생략 가능)

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
//Step 2 load JDBC Driver
  try {
   Class.forName("com.mysql.jdbc.Driver");
 }catch(ClassNotFoundException err) {
   out.print("JDBC Driver loading error<br>" + err.getMessage());
  }
// Step 3 create Connection Object
  Connection conn = null;
  try {
   conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/","root","0000");
  }catch(SQLException err) {
    out.print("Connection Object error<br>" + err.getMessage());
// Step 4 create Statement Object
```

```
PreparedStatement pstmt = conn.prepareStatement("CREATE DATABASE test2");

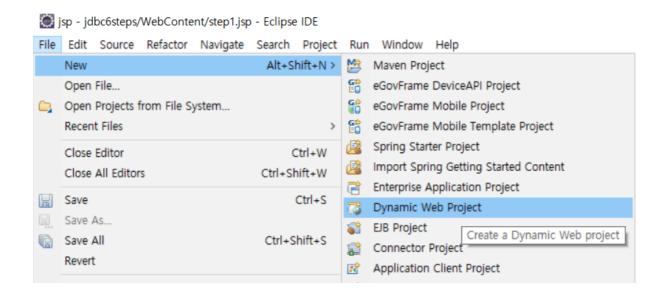
// Step 5 excute SQL Query

pstmt.executeUpdate();

// Step 6 close Connection

pstmt.close();
conn.close();

%>
</body>
</html>
```



create database drop database create table

// Step 4 create Statement Object

```
String sql = "CREATE TABLE student("
+ "hakbun varchar(10),"
+ "name varchar(10),"
```

```
+ "dept varchar(20),"+ "addr varchar(30),"+ "primary key(hakbun))";
```

PreparedStatement pstmt = conn.prepareStatement(sql); drop table

Hour 3

insert table

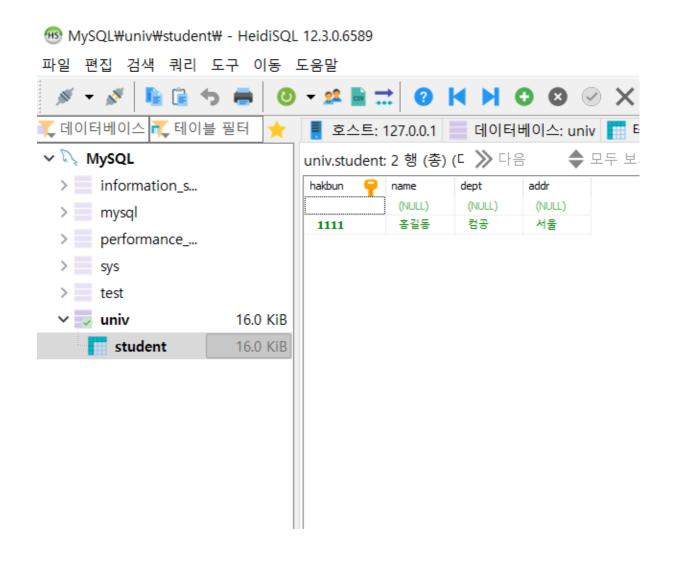
```
// Step 4 create Statement Object

String hakbun = "1111";
String name = "홍길동";
String dept = "컴공";
String addr = "서울";

String sql ="INSERT student VALUES(?, ?, ?, ?)";

PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.setString(1, hakbun);
pstmt.setString(2, name);
pstmt.setString(3, dept);
pstmt.setString(4, addr);
```

Hour 4



Hour 5

TBForm

```
이름 <input type="text" name="name"> <br>
전공 <input type="text" name="dept"> <br>
소 <input type="text" name="addr"> <br>
수소 <input type="text" name="addr"> <br>
<br/>
<br/>
<br/>
</body>
</html>
```

```
// Step 4 create Statement Object

/* String hakbun = "1111";
String name = "홍길동";
String dept = "컴공";
String addr = "서울"; */

String hakbun = request.getParameter("hakbun");
String name = request.getParameter("name");
String dept = request.getParameter("dept");
String addr = request.getParameter("addr");

String sql ="INSERT student VALUES(?, ?, ?, ?)";

PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.setString(1, hakbun);
pstmt.setString(2, name);
pstmt.setString(3, dept);
pstmt.setString(4, addr);
```

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
//Step 2 load JDBC Driver
 try {
   Class.forName("com.mysql.jdbc.Driver");
  }catch(ClassNotFoundException err) {
    out.print("JDBC Driver loading error<br>" + err.getMessage());
// Step 3 create Connection Object
  Connection conn = null;
  try {
   conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/univ","root","0000");
  }catch(SQLException err) {
   out.print("Connection Object error<br>" + err.getMessage());
  }
// Step 4 Statement Object
  String sql = "SELECT * FROM student";
  PreparedStatement pstmt = conn.prepareStatement(sql);
// Step 5 excute SQL Query
/* pstmt.executeUpdate(); */
 ResultSet rset = pstmt.executeQuery();
while(rset.next()){
<%=rset.getString("hakbun") %>|
<%=rset.getString("name") %>|
<%=rset.getString("dept") %>|
<%=rset.getString("addr") %><br>
<%
  //Step 6 Close Connection
  rset.close();
```

```
pstmt.close();
conn.close();
%>
</body>
</html>
```

login in / log out with session

- 1. 아이디와 비번을 모두 정상적으로 입력한경우 → 로그인 성공
- 2. 비번이 틀릴 경우 → 로그인 실패 (다시 시도하세요)
- 3. 아이디가 디비에 존재하지 않는 경우 → 로그인 실패 (회원 가입 페이지로 리다이렉트)

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
//Step 2 load JDBC Driver
 try {
   Class.forName("com.mysql.jdbc.Driver");
 }catch(ClassNotFoundException err) {
    out.print("JDBC Driver loading error<br>" + err.getMessage());
// Step 3 create Connection Object
  Connection conn = null;
    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/univ", "root", "0000");
  }catch(SQLException err) {
    out.print("Connection Object error<br>" + err.getMessage());
  }
```

```
// Step 4 Statement Object
 String hakbun = request.getParameter("hakbun");
 String sql = "SELECT * FROM student WHERE hakbun = ?";
 PreparedStatement pstmt = conn.prepareStatement(sql);
   pstmt.setString(1,hakbun);
// Step 5 excute SQL Query
/* pstmt.executeUpdate(); */
 ResultSet rset = pstmt.executeQuery();
  //디비에서 학번에 해당하는 자료가 있어서 반환되었는지 확인
 if(!rset.isBeforeFirst()) {
   out.print("<script>alert('해당 학번은 존재 하지 않습니다.');"
       + "history.back();"
       + "</script>");
   return;
 }
  rset.next();
  String dbhakbun = rset.getString("hakbun");
  String dbname = rset.getString("name");
 // dbhakbun hakbun 값이 같으면 세션을 생성하세요
  // "hakbun" dbhakbun "name" dbname
  /* if(dbHakbun == hakbun) { 문자열 값을 비교할때는 반드시 .equals()*/
 if(dbhakbun.equals(hakbun)) {
   session.setAttribute("hakbun", dbhakbun);
   session.setAttribute("name", dbname);
   out.print(session.getAttribute("hakbun") + "("
       + session.getAttribute("name")+ ")님 방문을 환영합니다.<br>");
 }
 //Step 6 Close Connection
  rset.close();
 pstmt.close();
 conn.close();
%>
</body>
</html>
```

Hour 6

module

```
dbconnect.inc
<%
//Step 2 load JDBC Driver
 try {
   Class.forName("com.mysql.jdbc.Driver");
 }catch(ClassNotFoundException err) {
   out.print("JDBC Driver loading error<br>>" + err.getMessage());
// Step 3 create Connection Object
 Connection conn = null;
 try {
   conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/","root","0000");
 }catch(SQLException err) {
   out.print("Connection Object error<br>" + err.getMessage());
 }
%>
dbclose.inc
// Step 6 close Connection
 pstmt.close();
 conn.close();
%>
```

class

```
package jdbc6steps;
import java.sql.*;
public class dbconnclose {
 // DB 연결 공통부분 매서드
 public static Connection getConnection() {
   //Step 2 load JDBC Driver
   try {
     Class.forName("com.mysql.jdbc.Driver");
   }catch(ClassNotFoundException err) {
     System.out.print("JDBC Driver loading error<br>>" + err.getMessage());
   }
 // Step 3 create Connection Object
   Connection conn = null;
   try {
     conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/","root","0000");
   }catch(SQLException err) {
     return conn;
 // DB 해제 공통부분 매서드
 public static void closeConnection(PreparedStatement
pstmt, Connection conn) {
   Step 6 close Connection
   try {
     pstmt.close();
     conn.close();
   }catch(SQLException err) {
     System.out.println("Error " + err.getMessage());
   }
 }
}
```

적용

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<%@ page import="jdbc6steps.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
//클래스로 DB 연결
 Connection conn = dbconnclose.getConnection();
// Step 4 create Statement Object
 PreparedStatement pstmt = conn.prepareStatement("CREATE DATABASE test5");
// Step 5 excute SQL Query
 pstmt.executeUpdate();
//클래스로 닫기
 dbconnclose.closeConnection(pstmt, conn);
%>
</body>
</html>
```

Hour 7

connection pool