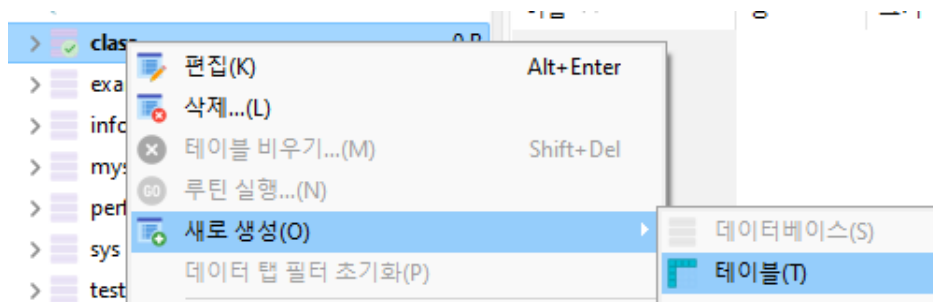
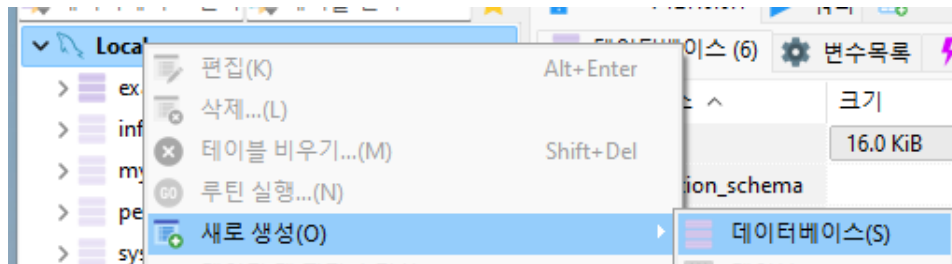


sql class day4

MySQL

Basic



c1no	c1name	c1etc	c1date
1	test1	test	2023-05-11 09:41:20
2	test2	fdsa	2023-05-11 09:41:34

CRUD


```
1 INSERT INTO class1 (c1name, c1etc)
2 VALUES('test2', 'content');
```

CRUD

```

1 SELECT *
2 FROM class1;

```


class1 (4r × 4c)				
c1no	 c1name	c1etc	c1date	
1	test1	test	2023-05-11 09:41:20	
2	test2	fdsa	2023-05-11 09:41:34	
3	test2	content	2023-05-11 09:48:20	
4	test2	content	2023-05-11 09:48:21	

CRUD

```

1 UPDATE class1
2 SET c1name='update1', c1etc='update content'
3 WHERE c1no = 1;

```


c1no	 c1name	c1etc	c1date	
1	update1	update content	2023-05-11 09:41:20	
2	test2	fdsa	2023-05-11 09:41:34	
3	test2	content	2023-05-11 09:48:20	
4	test2	content	2023-05-11 09:48:21	

CRUD

```

1 DELETE FROM class1
2 WHERE c1no = 1;

```

c1no	 c1name	c1etc
1	update1	update content
2	test2	fdsa
3	test2	content
4	test2	content

class.class1: 3 행 (총) (대략적)

c1no	c1name	c1etc
2	test2	fdsa
3	test2	content
4	test2	content

JSP Project

-정하영

▼ 코드

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

<%
    try {

        Class.forName("com.mysql.jdbc.Driver");
        out.print("드라이버 로드 성공 !!!<br>");

    }catch(ClassNotFoundException err) {

        out.print("드라이버 로드 실패 !!!<br>" + err.getMessage());
    }

    Connection conn = null;
    try {
        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/class","root","0000");
        out.print("연결 객체 생성 성공 !!!<br>");

    }catch(SQLException err) {

        out.print("연결 객체 생성 실패 !!!<br>" + err.getMessage());
    }

    String sql = "CREATE TABLE class2 ("
        + "c1no int(10) AUTO_INCREMENT,"
        + "c1name VARCHAR(50) NULL DEFAULT NULL,"
        + "c1etc VARCHAR(50) NULL DEFAULT NULL ,"
        + "c1date TIMESTAMP NULL DEFAULT NOW(),"
```

```

+ "PRIMARY KEY (c1no) USING BTREE"
+ ")";

PreparedStatement pstmt = conn.prepareStatement(sql);
out.print("구문 생성 성공 !!!<br>");

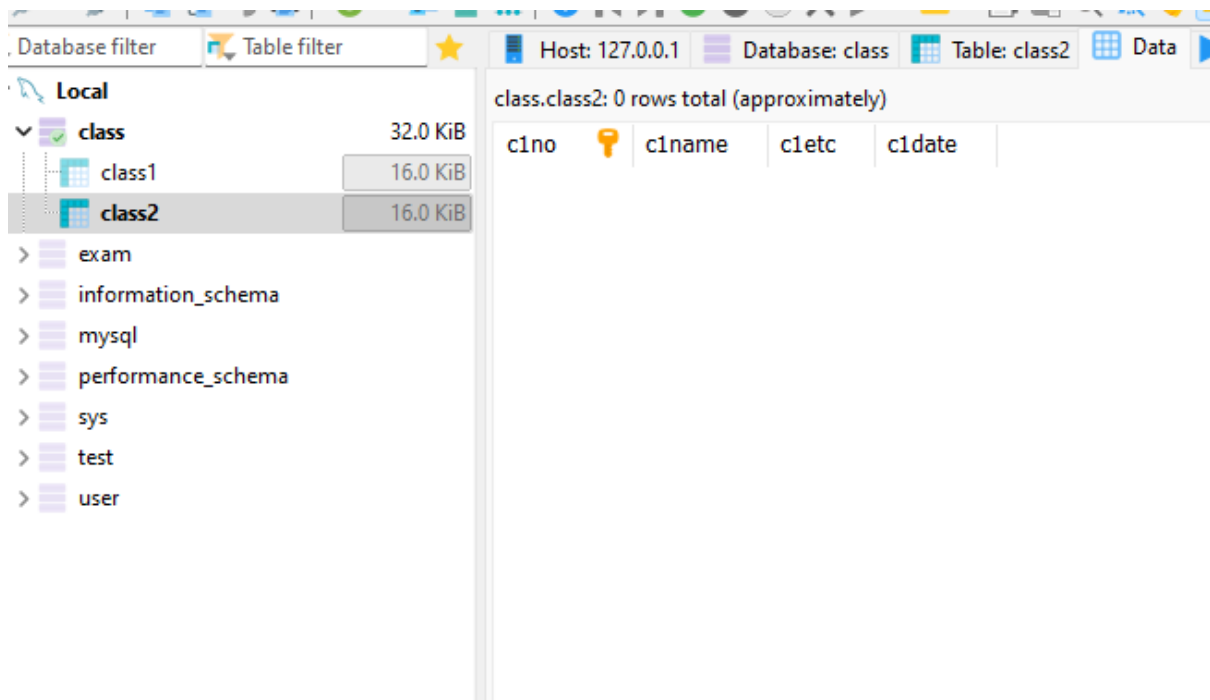
pstmt.executeUpdate();
out.print("디비 생성 성공 !!!<br>");

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

%>

</body>
</html>

```



- 김주영

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html> <html> <head>
<meta charset="UTF-8">
<title>Step 0</title> </head> <body>

<%

try {

    Class.forName("com.mysql.jdbc.Driver");
    out.print("드라이버 로드 성공!!!<br>");

```

```

}catch(ClassNotFoundException err){
    out.print("드라이버 로드 실패!!<br>" + err.getMessage());
}

Connection conn = null;
try {

    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/class", "root", "0000");
    out.print("연결 객체 생성 성공!!<br>");

}catch(SQLException err){
    out.print("연결 객체 생성 실패!!<br>" + err.getMessage());
}

String sql = "CREATE TABLE class7("
    + "c1no INT(10) NOT NULL AUTO_INCREMENT,"
    + "c1name VARCHAR(50),"
    + "c1etc VARCHAR(100),"
    + "c1date TIMESTAMP NULL DEFAULT (now()),"
    + "PRIMARY KEY(c1no))";

PreparedStatement pstmt = conn.prepareStatement(sql);
out.print("구문 생성 성공!!<br>");

pstmt.executeUpdate();
out.print("디비 생성 성공!!<br>");

pstmt.close();
conn.close();
%>

```

File Edit Search Query Tools Go to Help

Database filter Table filter Host: 127.0.0.1 Database: class Table: class3 Data Query

Local

- class 64.0 KiB
 - class1 16.0 KiB
 - class2 16.0 KiB
 - class3 16.0 KiB**
 - class4 16.0 KiB

class.class3: 2 rows tot: >> Next Show all Sorting

c1no	c1name	c1etc	c1date
1	ss	ss	2023-05-11 11:19:01
2	d	e	2023-05-11 11:19:42

JSP Database

JDBC - Basic

Basic

CRUD

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Create</title>
</head>
<body>

<%
    Class.forName("com.mysql.jdbc.Driver");

    Connection conn = null;

    String hostname = "jdbc:mysql://localhost:3306/class";

    String username = "root";

    String password = "0000";

    conn = DriverManager.getConnection(hostname, username, password);
%>

<%
    String sql = "INSERT INTO class1 (c1name, c1etc) VALUES('temp', 'tempcontent')";

    PreparedStatement pstmt = conn.prepareStatement(sql);

    pstmt.executeUpdate();
%>

</body>
</html>
```

```

<%

String sql = "INSERT INTO class1 (c1name, c1etc) VALUES(?,?)";

PreparedStatement pstmt = conn.prepareStatement(sql);
    pstmt.setString(1, 'mmmm');
    pstmt.setString(2, 'mcontent');

pstmt.executeUpdate();

%>

```

C R U D

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Read1</title>
</head>
<body>
<%
    Class.forName("com.mysql.jdbc.Driver");

    Connection conn = null;

    String hostname = "jdbc:mysql://localhost:3306/class";
    String username = "root";
    String password = "0000";

    conn = DriverManager.getConnection(hostname, username, password);

    String sql = "SELECT * FROM class1";

    PreparedStatement pstmt = conn.prepareStatement(sql);

    ResultSet rset = pstmt.executeQuery();

    while(rset.next()) {

        String c1no = rset.getString("c1no");
        String c1name = rset.getString("c1name");
        String c1etc = rset.getString("c1etc");
    }

```

```

        String c1date = rset.getString("c1date");

        out.print(c1no);
        out.print(c1name);
        out.print(c1etc);
        out.print(c1date);

    }

    %>
</body>
</html>

```

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Read1</title>
</head>
<body>
<%
    Class.forName("com.mysql.jdbc.Driver");

    Connection conn = null;

    String hostname = "jdbc:mysql://localhost:3306/class";
    String username = "root";
    String password = "0000";

    conn = DriverManager.getConnection(hostname, username, password);

    String sql = "SELECT * FROM class1";

    PreparedStatement pstmt = conn.prepareStatement(sql);

    ResultSet rset = pstmt.executeQuery();

    while(rset.next()) {

        String c1no = rset.getString("c1no");
        String c1name = rset.getString("c1name");
        String c1etc = rset.getString("c1etc");
        String c1date = rset.getString("c1date");

    }

    %>

```



```

<%=c1no %> <%=c1name %> <%=c1etc %> <%=c1date %><br>

<%
    }
%>
</body>
</html>

```

CRUD

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>CREATE</title>
</head>
<body>
<%
    Class.forName("com.mysql.jdbc.Driver");

    Connection conn = null;

    String hostname = "jdbc:mysql://localhost:3306/class";
    String username = "root";
    String password = "0000";

    conn = DriverManager.getConnection(hostname, username, password);

    String sql = "UPDATE class1 SET cname = ?, cetc = ? WHERE cno = ?";

    PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.setString(1, "김민수");
        pstmt.setString(2, "tset5");
        pstmt.setInt(3, 5);

    pstmt.executeUpdate();

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

%>
</body>
</html>

```

CRUD

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>CREATE</title>
</head>
<body>
<%
    Class.forName("com.mysql.jdbc.Driver");

    Connection conn = null;

    String hostname = "jdbc:mysql://localhost:3306/class";
    String username = "root";
    String password = "00000";

    conn = DriverManager.getConnection(hostname, username, password);

    String sql = "DELETE FROM class1 WHERE cno = ?";

    PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.setInt(1, 5);

    pstmt.executeUpdate();

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

%>
</body>
</html>

```

JDBC - File

Basic

C R U D

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Create</title>

```

```

</head>
<body>

<%@ include file = "dbconnect.inc"%>

<%

    String sql = "INSERT INTO class1 (c1name, c1etc) VALUES('555', '5555')";

    PreparedStatement pstmt = conn.prepareStatement(sql);

    pstmt.executeUpdate();

%>

</body>
</html>

```

C R U D

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%@include file = "dbconnect.inc" %>

<%
String sql = "SELECT * FROM class1";
PreparedStatement pstmt = conn.prepareStatement(sql);
ResultSet rset = pstmt.executeQuery();

while(rset.next()){
    String c1no = rset.getString("c1no");
    String c1name = rset.getString("c1name");
    String c1etc = rset.getString("c1etc");
    String c1date = rset.getString("c1date");
%>
    <%=c1no %> <%=c1name %> <%=c1etc %> <%=c1date %> <br>

<%
    }
%>
</body>
</html>

```

C R U D

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

    <%@ page import="java.sql.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

    <%@ include file = "dbconnect.inc"%>

    <%
String sql = "UPDATE class1 SET c1name=? WHERE c1no = ?";

    PreparedStatement pstmt = conn.prepareStatement(sql);
    pstmt.setString(1,"iron");
    pstmt.setInt(2,3);

    pstmt.executeUpdate();
    %>
</body>
</html>

```

CRUD

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

    <%@ page import="java.sql.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

    <%@ include file = "dbconnect.inc"%>

    <%
String sql = "DELETE FROM class1 WHERE c1no = ?";

    PreparedStatement pstmt = conn.prepareStatement(sql);
    pstmt.setInt(1, 8);

    pstmt.executeUpdate();
    %>

```

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

JDBC - Class

class

```
package jdbcclass;

import java.sql.*;

public class dbconnect {

    public static Connection getConnection() throws ClassNotFoundException, SQLException {

        Class.forName("com.mysql.jdbc.Driver");

        Connection conn = null;

        String hostname = "jdbc:mysql://localhost:3306/class";
        String username = "root";
        String password = "0000";

        conn = DriverManager.getConnection(hostname, username, password);

        PreparedStatement pstmt = null;

        return conn;
    }
}
```

CRUD

```
<%@page import="java.sql.DriverManager"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>
<%@ page import="jdbcclass.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Create</title>
</head>
<body>

<%
    Connection conn = null;
```

```

conn = dbconnect.getConnection();

String sql = "INSERT INTO class1 (c1name, c1etc) VALUES ('cup', 'drink')";
PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.executeUpdate();

%>

</body>
</html>

```

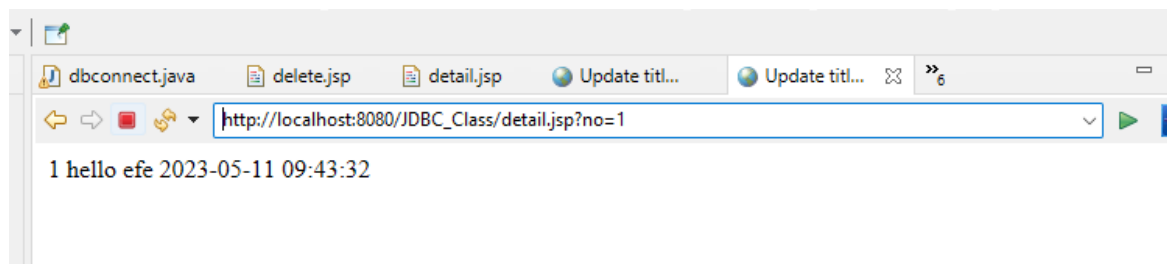
`request.getParameter("no")` 는 요청 파라미터 중 `no` 의 값을 가져오기 때문에
문자열 정수로 변환 `Integer.parseInt()` 하면 ?no=1 이런 거 가능해집니다

```

int no = Integer.parseInt(request.getParameter("no"));
String sql = "SELECT * FROM class1 WHERE c1no = ?";

PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.setInt(1, no);

```



C R U D

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import = "java.sql.*" %>
<%@ page import = "jdbcclass.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

<%
    Connection conn = null;
    conn = dbconnect.getConnection();

    String sql = "SELECT * FROM class1";

```

```

PreparedStatement pstmt = conn.prepareStatement(sql);

ResultSet rset = pstmt.executeQuery();

while(rset.next()){

    String c1no = rset.getString("c1no");
    String c1name = rset.getString("c1name");
    String c1etc = rset.getString("c1etc");
    String c1date = rset.getString("c1date");

    %>

    <%= c1no %>
    <%= c1name %>
    <%= c1etc %>
    <%= c1date %> <br>
    <%
    }
    %>
</body>
</html>

```

CRUD

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

    <%@ page import="java.sql.*" %>
    <%@ page import="jdbc.class.*" %>

    <!DOCTYPE html>
    <html>
    <head>
    <meta charset="UTF-8">
    <title>Insert title here</title>
    </head>
    <body>
    <%
        Connection conn = null;
        conn = dbconnect.getConnection();

        String sql = "UPDATE class1 SET c1name=? WHERE c1no = ?";

        PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.setString(1, "물?루");
        pstmt.setInt(2, 4);

        pstmt.executeUpdate();
    %>
    </body>
    </html>

```

CRUD

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>
<%@ page import="jdbc.class.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Update title here</title>
</head>
<body>

<%

    Connection conn = null;
    conn = dbconnect.getConnection();

    String sql = "DELETE FROM class1 WHERE c1no = ?";

    PreparedStatement pstmt = conn.prepareStatement(sql);
    pstmt.setInt(1, 3);

    pstmt.executeUpdate();
%>

</body>
</html>

```

Connection Pool

Basic

C R U D

C R U D

C R U D

C R U D