**[ 13 ] 게시판**

* **페이징 답변글 없는 게시판**
* 게시판 작성 전 Run Configurations에서 IPv4나오도록 셋팅

**borad.sql**

-- BOARD TABLE DROP & CREATE

**DROP** **TABLE** BOARD;

**CREATE** **TABLE** BOARD(

NUM NUMBER(5,0) **PRIMARY** **KEY**, -- 글번호

WRITER VARCHAR2(30) **NOT** **NULL**, -- 글작성자

SUBJECT VARCHAR2(100) **NOT** **NULL**, -- 글제목

CONTENT VARCHAR2(4000) **NOT** **NULL**, -- 본문

EMAIL VARCHAR2(30), -- 작성자 이메일

READCOUNT NUMBER(5) **DEFAULT** 0, -- 글 HIT수 (조회수)

PW VARCHAR2(30) **NOT** **NULL**, -- 글 삭제시 쓸 비밀번호

REF NUMBER(5,0) **NOT** **NULL**, -- 글그룹(원글의 경우 글번호로/답변글일경우 원글의 REF로)

RE\_STEP NUMBER(3) **NOT** **NULL**, -- 글그룹내 출력 순서(원글 0)

RE\_INDENT NUMBER(3) **NOT** **NULL**, -- 글 LIST 출력시 글 제목 들여쓰기 정도(원글0)

IP VARCHAR2(30) **NOT** **NULL**, -- 글 작성시 컴퓨터 IP 주소

RDATE **DATE** **DEFAULT** SYSDATE -- 글 쓴 시점(날짜+시간)

);

-- 1. 글갯수

**SELECT** COUNT(\*) **FROM** BOARD;

-- 2. 글목록(글그룹이 최신인 글이 위로)

**SELECT** \* **FROM** BOARD **ORDER** **BY** REF **DESC**;

-- 3. 글쓰기(원글쓰기) - 글쓴이, 글제목, 글본문, 이메일, PW

-- 글번호를 생성

**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD;

**INSERT** **INTO** BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL,

PW, REF, RE\_STEP, RE\_INDENT, IP)

**VALUES** ((**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), '홍길동', '제목1', '본문\n방가', **null**,

'111', (**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), 0, 0, '192.168.0.1' );

**INSERT** **INTO** BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL,

PW, REF, RE\_STEP, RE\_INDENT, IP)

**VALUES** ((**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), '지길동', '제목2', '본문\n방가', **null**,

'111', (**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), 0, 0, '192.168.0.1' );

-- 4. 글번호로 글상세보기 내용(DTO) 가져오기

**SELECT** \* **FROM** BOARD **WHERE** NUM=2;

-- 5. 조회수 올리기

**UPDATE** BOARD **SET** READCOUNT = READCOUNT + 1 **WHERE** NUM=2;

-- 6. 글 수정

**UPDATE** BOARD **SET** SUBJECT = '수정된제목1',

CONTENT = '수정된 본문\n방가',

EMAIL = 'hong@hong.com',

PW ='111',

IP='127.0.0.1'

**WHERE** NUM=1;

-- 7. 글삭제(비밀번호를 맞게 입력한 경우만 삭제)

**COMMIT**;

**DELETE** **FROM** BOARD **WHERE** NUM=1 **AND** PW='111';

ROLLBACK;

-- 데이터 조작

**DELETE** **FROM** BOARD;

**COMMIT**;

**INSERT** **INTO** BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL,

PW, REF, RE\_STEP, RE\_INDENT, IP)

**VALUES** ((**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), '홍길동', '제목1', '본문\n방가', **null**,

'111', (**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), 0, 0, '192.168.0.1' );

**INSERT** **INTO** BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL,

PW, REF, RE\_STEP, RE\_INDENT, IP)

**VALUES** ((**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), '지길동', '제목2', '본문\n방가', **null**,

'111', (**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), 0, 0, '192.168.0.1' );

**UPDATE** BOARD **SET** READCOUNT = 11 **WHERE** NUM=1;

**SELECT** \* **FROM** BOARD **ORDER** **BY** REF **DESC**;

**COMMIT**;

**BoardDto.java**

**import** java.sql.Timestamp;

**public** **class** BoardDto {

**private** **int** num;

**private** String writer;

**private** String subject;

**private** String content;

**private** String email;

**private** **int** readcount;

**private** String pw;

**private** **int** ref;

**private** **int** re\_step;

**private** **int** re\_indent;

**private** String ip;

**private** Timestamp rdate;

**//생성자, setter, getter, toString() 추가**

}

**BoardDao.java**

**package** com.lec.dao;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Timestamp;

**import** java.util.ArrayList;

**import** javax.naming.Context;

**import** javax.naming.InitialContext;

**import** javax.naming.NamingException;

**import** javax.sql.DataSource;

**import** com.lec.dto.BoardDto;

**public** **class** BoardDao {

**public** **static** **final** **int** ***SUCCESS*** = 1;

**public** **static** **final** **int** ***FAIL*** = 0;

// 싱글톤

**private** **static** BoardDao *instance* = **new** BoardDao();

**public** **static** BoardDao getInstance() {

**return** *instance*;

}

**private** BoardDao() {}

**private** Connection getConnection() **throws** SQLException {

Connection conn = **null**;

**try** {

Context ctx = **new** InitialContext();

DataSource ds = (DataSource) ctx.lookup("java:comp/env/jdbc/Oracle11g");

conn = ds.getConnection();

} **catch** (NamingException e) {

System.***out***.println(e.getMessage());

}

**return** conn;

}

// -- 1. 글갯수

**public** **int** getBoardTotalCnt() {

**int** totalCnt = 0;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT COUNT(\*) FROM BOARD";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

rs.next();

totalCnt = rs.getInt(1); // 1열의 데이터를 int값으로 받아옴

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

}**catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** totalCnt;

}

// -- 2. 글목록

**public** ArrayList<BoardDto> listBoard(){

ArrayList<BoardDto> dtos = **new** ArrayList<BoardDto>();

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD ORDER BY REF DESC";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

**while**(rs.next()) {

**int** num = rs.getInt("num");

String writer = rs.getString("writer");

String subject = rs.getString("subject");

String content = rs.getString("content");

String email = rs.getString("email");

**int** readcount= rs.getInt("readcount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent= rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rdate = rs.getTimestamp("rdate");

dtos.add(**new** BoardDto(num, writer, subject, content, email, readcount,

pw, ref, re\_step, re\_indent, ip, rdate));

}

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

}**catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** dtos;

}

// -- 3. 원글쓰기

**public** **int** insertBoard(BoardDto dto) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "INSERT INTO BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL, " +

" PW, REF, RE\_STEP, RE\_INDENT, IP)" +

" VALUES ((SELECT NVL(MAX(NUM),0)+1 FROM BOARD), ?, ?, ?, ?," +

" ?, (SELECT NVL(MAX(NUM),0)+1 FROM BOARD), 0, 0, ?)";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, dto.getWriter());

pstmt.setString(2, dto.getSubject());

pstmt.setString(3, dto.getContent());

pstmt.setString(4, dto.getEmail());

pstmt.setString(5, dto.getPw());

pstmt.setString(6, dto.getIp());

result = pstmt.executeUpdate();

//System.out.println(result==SUCCESS? "원글쓰기 성공":"실패");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

System.***out***.println("원글쓰다 예외 발생 : " + dto);

} **finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// -- 4. 글번호로 글 내용(DTO) 가져오기

**public** BoardDto getBoardOneLine(**int** num) {

BoardDto dto = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

rs = pstmt.executeQuery();

**if**(rs.next()) {

String writer = rs.getString("writer");

String subject = rs.getString("subject");

String content = rs.getString("content");

String email = rs.getString("email");

**int** readcount= rs.getInt("readcount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent= rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rdate = rs.getTimestamp("rdate");

dto = **new** BoardDto(num, writer, subject, content, email, readcount,

pw, ref, re\_step, re\_indent, ip, rdate);

}

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

}**catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** dto;

}

// -- 4. 글번호로 글 내용(DTO) 가져오기

**public** BoardDto getBoardOneLine(String numStr) {

BoardDto dto = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, numStr);

rs = pstmt.executeQuery();

**if**(rs.next()) {

**int** num = rs.getInt("num");

String writer = rs.getString("writer");

String subject = rs.getString("subject");

String content = rs.getString("content");

String email = rs.getString("email");

**int** readcount= rs.getInt("readcount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent= rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rdate = rs.getTimestamp("rdate");

dto = **new** BoardDto(num, writer, subject, content, email, readcount,

pw, ref, re\_step, re\_indent, ip, rdate);

}

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

}**catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** dto;

}

// -- 5. 조회수 올리기

**public** **void** readCountUp(**int** num) {

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET READCOUNT = READCOUNT + 1 WHERE NUM = ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

pstmt.executeUpdate();

//int result = pstmt.executeUpdate();

//System.out.println(result==SUCCESS? "조회수증가":"num 오류");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

} **finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

}

// -- 6. 글 수정

**public** **int** updateBoard(BoardDto dto) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET SUBJECT = ?," +

" CONTENT = ?," +

" EMAIL = ?," +

" PW = ?," +

" IP = ? " +

" WHERE NUM = ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, dto.getSubject());

pstmt.setString(2, dto.getContent());

pstmt.setString(3, dto.getEmail());

pstmt.setString(4, dto.getPw());

pstmt.setString(5, dto.getIp());

pstmt.setInt(6, dto.getNum());

result = pstmt.executeUpdate();

System.***out***.println(result==***SUCCESS***? "글 수정 성공":"글 수정 실패");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

System.***out***.println("글수정 예외 발생 : " + dto);

} **finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// -- 7. 글삭제(비밀번호를 맞게 입력한 경우만 삭제)

**public** **int** deleteBoard(**int** num, String pw) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "DELETE FROM BOARD WHERE NUM = ? AND PW = ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

pstmt.setString(2, pw);

result = pstmt.executeUpdate();

System.***out***.println(result==***SUCCESS***? "글 삭제 완료":"글 삭제 실패(비번확인)");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

} **finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

}

**daoErrorPageTest.jsp**

<%@page import=*"com.lec.dto.BoardDto"*%>

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<a href=*"xx.jsp"*>에러 페이지 될까?</a>

<%

BoardDao bDao = BoardDao.getInstance();

out.println("<h3>1. 글갯수 : " + bDao.getBoardTotalCnt() + "</h3>");

out.println("<h3>2. 글목록 </h3>");

ArrayList<BoardDto> dtos = bDao.listBoard();

**for**(BoardDto dto : dtos){

out.println(dto + "<br>");

}

out.println("<h3>3. 원글쓰기</h3>");

BoardDto dto = **new** BoardDto(0, "김구", "대한만세", "냉무", **null**, 0, "111",0, 0, 0, "192.168.0.31", **null**);

**int** result = bDao.insertBoard(dto);

out.println(result == BoardDao.SUCCESS ? "글쓰기 성공":"글쓰기실패");

out.println("<h3>4와 5. 조회수올리고 글번호로 dto가져오기</h3>");

bDao.readCountUp(3);

dto = bDao.getBoardOneLine(3);

out.println("수정전의 3번글 : " + dto);

out.println("<h3>6. 글수정 </h3>");

dto = **new** BoardDto(3, "김구", "수정제목", "수정냉무", "modify@m.com", 0, "111",

0, 0, 0, "192.168.0.31", **null**);

result = bDao.updateBoard(dto);

**if**(result == BoardDao.SUCCESS){

dto = bDao.getBoardOneLine(3);

out.println("수정 완료 후 3번 글 : " + dto);

}**else**{

out.println("수정 실패. 오타찾아");

}

out.println("<h3>7. 3번글 삭제 </h3>");

result = bDao.deleteBoard(3, "1");

out.println(result == BoardDao.SUCCESS? "3번글 삭제성공<br>":"3번글 삭제 실패(비번)<br>");

result = bDao.deleteBoard(3, "111");

out.println(result == BoardDao.SUCCESS? "3번글 삭제성공<br>":"3번글 삭제 실패(비번)<br>");

%>

</body>

</html>

**error404.jsp**

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<h2>공사중입니다(404)</h2>

</body>

</html>

**web.xml**

<error-page>

<error-code>404</error-code>

<location>/error/error404.jsp</location>

</error-page>

**style.css**

@charset *"UTF-8"*;

**body** {

background-color: *#FFF0B5*;

font-size: *9pt*;

}

**table** {border: *2px* *solid* *pink*; width:*95%*; margin: *10px* *auto*;}

**table** **tr** { background-color: *#FFE271*; height: *40px*;}

**table** **tr***:hover* { background-color: *orange*;

cursor: *pointer*;

}

**td,** **th** {text-align: *center*; padding:*5px*; }

**caption** {font-size: *20px*; padding:*10px*;}

**h2,** **b**{text-align: *center*; color:*red*;}

**a** { text-decoration: *none*; color:*black*}

*.left*{text-align: *left*;}

*.paging* {text-align: *center*;}

**input***:not*(*.btn*)**,** **textarea** {

width: *90%*;

}

**index.jsp**

<body>

<jsp:forward page=*"board/list.jsp"*/>

</body>

**list.jsp**

<%@page import=*"com.lec.dto.BoardDto"*%>

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<table>

<caption>게시판</caption>

<tr><td><a href=*"*<%=conPath %>*/board/writeForm.jsp"*>글쓰기</a></td></tr>

</table>

<table>

<tr><th>글번호</th><th>작성자</th><th>글제목</th><th>메일</th><th>조회수</th></tr>

<%

BoardDao bDao = BoardDao.getInstance();

**int** totalCnt = bDao.getBoardTotalCnt();

**if**(totalCnt == 0){

out.println("<tr><td colspan='5'>등록된 글이 없습니다</td></tr>");

}**else**{

ArrayList<BoardDto> dtos = bDao.listBoard();

**for**(BoardDto dto : dtos){

// 글번호 <td>+dto.getNum()+</td>

out.println("<tr><td>"+dto.getNum() + "</td>");

// 작성자

out.println("<td>" + dto.getWriter() + "</td>");

// 글제목(조회수가 10 이상이면 hot 이미지와 같이 제목 출력, 글제목 클릭시 상세보기페이지로)

out.println("<td class='left'>");

**if**(dto.getReadcount() > 10){

out.println("<img src='"+conPath+"/img/hot.gif'>");

}

out.println("<a href='"+conPath + "/board/content.jsp?num="+dto.getNum()+"'>"

+ dto.getSubject()+"</a>");

out.println("</td>");

//메일

String email = dto.getEmail();

out.println("<td>" + (email==**null**? "-":email) + "</td>");

//조회수

out.println("<td>"+dto.getReadcount()+"</td></tr>");

}

}

%>

</table>

</body>

</html>

**writerForm.jsp**

<%@page import=*"com.lec.dto.BoardDto"*%>

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<form action=*"*<%=conPath %>*/board/writePro.jsp"* method=*"post"*>

<table>

<caption>게시판</caption>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* required=*"required"*></td>

</tr>

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* required=*"required"*></td>

</tr>

<tr><th>본문</th>

<td><textarea name=*"content"* rows=*"5"* cols=*"5"*

required=*"required"*></textarea></td>

</tr>

<tr><th>이메일</th>

<td><input type=*"email"* name=*"email"*></td>

</tr>

<tr><th>비밀번호</th>

<td><input type=*"password"* name=*"pw"* required=*"required"*></td>

</tr>

<tr>

<td colspan=*"2"*>

<input type=*"submit"* value=*"글쓰기"* class=*"btn"*>

<input type=*"reset"* value=*"취소"* class=*"btn"*>

<input type=*"button"* value=*"목록"* class=*"btn"*

onclick=*"location.href='*<%=conPath%>*/board/list.jsp'"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**writerPro.jsp**

<%@page import=*"com.lec.dao.BoardDao"*%>

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

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%request.setCharacterEncoding("utf-8"); %>

<jsp:useBean id=*"dto"* class=*"com.lec.dto.BoardDto"*/>

<jsp:setProperty property=*"\*"* name=*"dto"*/>

<%

dto.setIp(request.getRemoteAddr()); // client의 ip로

dto.setRdate(**new** Timestamp(System.currentTimeMillis())); // 요청들어온 시점 현재

BoardDao bDao = BoardDao.getInstance();

**int** result = bDao.insertBoard(dto);

**if**(result == BoardDao.SUCCESS){

%>

<script>

alert('글쓰기 완료');

location.href = '<%=conPath%>/board/list.jsp';

</script>

<%}**else**{ %>

<script>

alert('글쓰기 실패');

history.back();

</script>

<%}%>

</body>

</html>

**content.jsp**

<%@page import=*"com.lec.dto.BoardDto"*%>

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%

**int** num = Integer.parseInt(request.getParameter("num"));

BoardDao dao = BoardDao.getInstance();

BoardDto dto = dao.getBoardOneLine(num);

dao.readCountUp(num);

%>

<table>

<caption><%=dto.getNum() %>번 글 상세보기</caption>

<tr><th>글번호</th><td><%=dto.getNum() %></td></tr>

<tr><th>글제목</th><td><%=dto.getSubject() %></td></tr>

<tr><th>이메일</th><td><%=dto.getEmail()==**null** ? "-": dto.getEmail()%></td></tr>

<tr><th>조회수</th><td><%=dto.getReadcount() %></td></tr>

<tr><th>본문</th><td><pre><%=dto.getContent() %></pre></td></tr>

<tr><th>IP</th><td><%=dto.getIp() %></td></tr>

<tr><th>글쓴시점</th><td><%=dto.getRdate() %></td></tr>

<tr>

<td colspan=*"2"*>

<button onclick=*"location.href='updateForm.jsp?num=*<%=num%>*'"*>수정</button>

<button onclick=*"location.href='deleteForm.jsp?num=*<%=num%>*'"*>삭제</button>

<button>답변</button>

<button onclick="location.href='list.jsp'">목록</button>

</td>

</tr>

</table>

</body>

</html>

**updateForm.jsp**

<%@page import=*"com.lec.dto.BoardDto"*%>

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%

**int** num = Integer.parseInt(request.getParameter("num"));

BoardDao dao = BoardDao.getInstance();

BoardDto dto = dao.getBoardOneLine(num);

%>

<form action=*"*<%=conPath %>*/board/updatePro.jsp"* method=*"post"*>

<input type=*"hidden"* name=*"num"* value=*"*<%=num %>*"*>

<table>

<caption><%=num %>번 글 수정</caption>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* required=*"required"* value=*'*<%=dto.getWriter()%>*'* readonly=*"readonly"*></td>

</tr>

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* required=*"required"* value=*"*<%=dto.getSubject()%>*"*></td>

</tr>

<tr><th>본문</th>

<td><textarea name=*"content"* rows=*"5"* cols=*"5"*

required=*"required"*><%=dto.getContent() %></textarea></td>

</tr>

<tr><th>이메일</th>

<td><input type=*"email"* name=*"email"* value=*"*<%=dto.getEmail()!=**null**? dto.getEmail():"" %>*"*></td>

</tr>

<tr><th>비밀번호</th>

<td><input type=*"password"* name=*"pw"* required=*"required"* value=*"*<%=dto.getPw() %>*"* ></td>

</tr>

<tr>

<td colspan=*"2"*>

<input type=*"submit"* value=*"수정"* class=*"btn"*>

<input type=*"reset"* value=*"취소"* class=*"btn"*>

<input type=*"button"* value=*"목록"* class=*"btn"*

onclick=*"location.href='*<%=conPath%>*/board/list.jsp'"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**updatePro.jsp**

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%request.setCharacterEncoding("utf-8"); %>

<jsp:useBean id=*"dto"* class=*"com.lec.dto.BoardDto"*/>

<jsp:setProperty property=*"\*"* name=*"dto"*/>

<!-- 들어온 파라미터 : writer(X), subject, content, email, pw, num -->

<!-- dao의 updateBoard를 호출하기 위해서는 : subject, content, email, pw, num, ip -->

<%

dto.setIp(request.getRemoteAddr());

BoardDao dao = BoardDao.getInstance();

**int** result = dao.updateBoard(dto);

out.println(dto);

**if**(result == BoardDao.SUCCESS){

%>

<script>

alert('글수정 성공');

//location.href = '<%=conPath%>/board/list.jsp';

location.href = '<%=conPath%>/board/content.jsp?num=<%=dto.getNum()%>';

</script>

<%}**else**{ %>

<!-- <script>

alert('글수정 실패');

history.go(-1);

</script> -->

<%} %>

</body>

</html>

**deleteForm.jsp**

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%String num = request.getParameter("num"); %>

<table>

<caption><%=num %>번 글 삭제</caption>

<tr>

<td>

<fieldset>

<legend>삭제를 위한 암호가 일치하여야 합니다</legend>

<form action=*"*<%=conPath %>*/board/deletePro.jsp"* method=*"post"*>

<input type=*"hidden"* name=*"num"* value=*"*<%=num%>*"*>

<p>암호 <input type=*"password"* name=*"pw"* required=*"required"* autofocus=*"autofocus"* class=*"btn"*></p>

<p>

<input type=*"submit"* value=*"삭제"* class=*"btn"*>

<input type=*"reset"* value=*"삭제취소"* class=*"btn"* onclick="history.back()">

</p>

</form>

</fieldset>

</td>

</tr>

</table>

</body>

</html>

**deletePro.jsp**

<%@page import=*"com.lec.dao.BoardDao"*%>

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

pageEncoding=*"UTF-8"*%>

<% String conPath = request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"* type=*"text/css"*>

</head>

<body>

<%

**int** num = Integer.parseInt(request.getParameter("num"));

String pw = request.getParameter("pw");

BoardDao dao = BoardDao.getInstance();

**int** result = dao.deleteBoard(num, pw);

**if**(result == BoardDao.SUCCESS){

%>

<script>

alert('<%=num%>번 글 삭제 성공');

location.href = '<%=conPath%>/board/list.jsp';

</script>

<%}**else**{ %>

<script>

alert('<%=num%>글 삭제 실패. 비밀번호를 확인하세요');

history.back();

</script>

<%} %>

</body>

</html>

4. 글목록

list.jsp

10. 글삭제폼

deleteForm.jsp

8. 글수정폼

updateForm.jsp

9. 글수정처리

updatePro.jsp

11. 글삭제처리

deletePro.jsp

6. 글쓰기처리

writePro.jsp

5. 글쓰기폼

writeForm.jsp

7. 글내용보기

content.jsp

2. DAO

BoardDao

1. DTO

BoardDto

3. 에러페이지error404