

문제1. 다음과 같은 동작을 하는 페이지를 만들어라

<DB Set>

```
create table quiz3.sampletable
```

```
(
```

```
    id      bigint auto_increment comment 'id'
```

```
    primary key,
```

```
    data1 varchar(255) null comment 'data1',
```

```
    data2 varchar(255) null comment 'data2',
```

```
    data3 varchar(255) null comment 'data3'
```

```
)
```

```
comment '샘플테이블';
```

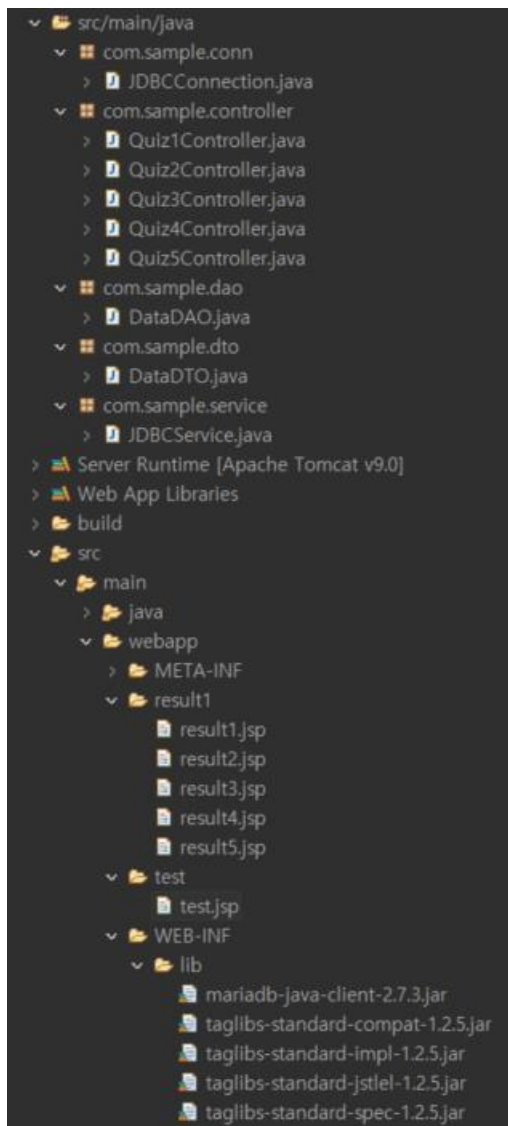
```
insert into quiz3.sampletable (id, data1, data2, data3)
```

```
values  (1, 'aaa1', 'aaa2', 'aaa3'),
```

```
        (2, 'bbb1', 'bbb2', 'bbb3'),
```

```
        (3, 'ccc1', 'ccc2', 'ccc3');
```

## <페이지 구조>



## Test1.jsp

```
<!-- select로 리스트 호출 -->
<hr />
<form action="${pageContext.request.contextPath}/Quiz1Controller" method="post">
    <button>호출</button>
</form>

<!-- 특정 id로 검색 조회하기 -->
<hr />
<form action="${pageContext.request.contextPath}/Quiz2Controller" method="post">
    <input type="text" name="id" id="id" /><br><button>조회</button>
</form>

<!-- 값을 새로 넣기 -->
<hr />
<form action="${pageContext.request.contextPath}/Quiz3Controller" method="post">
    <label for="data1">data1</label><input type="text" name="data1" id="data1" /><br />
    <label for="data2">data2</label><input type="text" name="data2" id="data2" /><br />
    <label for="data3">data3</label><input type="text" name="data3" id="data3" /><br />
    <button>삽입</button>
</form>

<!-- 값을 수정하기 -->
<hr />
<form action="${pageContext.request.contextPath}/Quiz4Controller" method="post">
    <label for="id">id</label><input type="text" name="id" id="id" /><br />
    <label for="data1">data1</label><input type="text" name="data1" id="data1" /><br />
    <label for="data2">data2</label><input type="text" name="data2" id="data2" /><br />
    <label for="data3">data3</label><input type="text" name="data3" id="data3" /><br />
    <button>수정</button>
</form>

<!-- id값을 넣어 제거하기 -->
<hr />
<form action="${pageContext.request.contextPath}/Quiz5Controller" method="post">
    <input type="text" name="id" id="id" /><br><button>삭제</button>
</form>
```

## JDBCCConnection.java

```
public class JDBCCConnection {
    private static String connect = "jdbc:mariadb://localhost:3306/quiz3";
    private static String user = "root";
    private static String passwd = "1234";

    private static Connection conn = null;

    static {
        try {
            Class.forName("org.mariadb.jdbc.Driver");
            conn = DriverManager.getConnection(connect, user, passwd);
        } catch (SQLException e) {
            e.printStackTrace();
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    public static Connection getConn() {
        return conn;
    }
}
```

## DataDTO.java

```
public class DataDTO {
    private int id;
    private String data1;
    private String data2;
    private String data3;

    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getData1() {
        return data1;
    }
    public void setData1(String data1) {
        this.data1 = data1;
    }
    public String getData2() {
        return data2;
    }
    public void setData2(String data2) {
        this.data2 = data2;
    }
    public String getData3() {
        return data3;
    }
    public void setData3(String data3) {
        this.data3 = data3;
    }
}
```

## Quiz1Controller.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    request.setCharacterEncoding("utf-8");

    JDBCService service = new JDBCService();
    service.getList(request);

    RequestDispatcher rdp = request.getRequestDispatcher("/result1/result1.jsp");
    rdp.forward(request, response);
}
```

## Quiz2Controller.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    request.setCharacterEncoding("utf-8");

    JDBCService service = new JDBCService();
    service.getItem(request);

    RequestDispatcher rdp = request.getRequestDispatcher("/result1/result2.jsp");
    rdp.forward(request, response);
}
```

### Quiz3Controller.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    request.setCharacterEncoding("utf-8");

    JDBCService service = new JDBCService();
    service.setItem(request);

    RequestDispatcher rdp = request.getRequestDispatcher("/result1/result3.jsp");
    rdp.forward(request, response);
}
```

### Quiz4Controller.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    request.setCharacterEncoding("utf-8");

    JDBCService service = new JDBCService();
    service.patchItem(request);

    RequestDispatcher rdp = request.getRequestDispatcher("/result1/result4.jsp");
    rdp.forward(request, response);
}
```

### Quiz5Controller.java

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
    request.setCharacterEncoding("utf-8");

    JDBCService service = new JDBCService();
    service.deleteItem(request);

    RequestDispatcher rdp = request.getRequestDispatcher("/result1/result5.jsp");
    rdp.forward(request, response);
}
```

## JDBCService.java

```
public class JDBCService {  
    private DataDAO dao = new DataDAO();  
    public void getList(HttpServletRequest request) {  
    }  
    public void getItem(HttpServletRequest request) {  
    }  
    public void setItem(HttpServletRequest request) {  
    }  
    public void patchItem(HttpServletRequest request) {  
    }  
    public void deleteItem(HttpServletRequest request) {  
    }  
}
```

## DataDAO.java

```
public class DataDAO {  
    private PreparedStatement pstmt;  
    private ResultSet rs;
```

## DataDAO.java - selectDataList

[illegible]

## DataDAO.java - selectData

```
public DataDTO selectData(int id) {

    Connection conn = JDBCConnection.getConnection();
    DataDTO dto = new DataDTO();

    try {

    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            rs.close();
            pstmt.close();
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    return dto;
}
```



## DataDAO.java – insertData

```
public void insertData(DataDTO dto) {  
    Connection conn = JDBCConnection.getConn();  
    try {  
          
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        try {  
            pstmt.close();  
        } catch (SQLException e) {  
            // TODO Auto-generated catch block  
            e.printStackTrace();  
        }  
    }  
}
```

## DataDAO.java – updateData

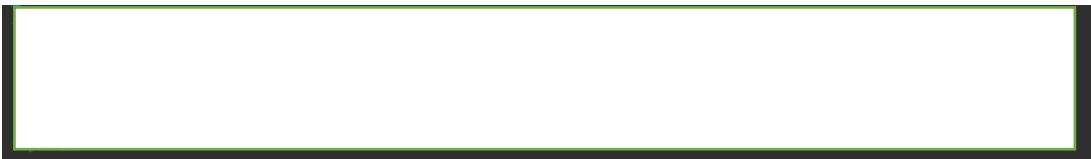
```
public void updateData(DataDTO dto) {  
    Connection conn = JDBCConnection.getConn();  
    try {  
          
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        try {  
            pstmt.close();  
        } catch (SQLException e) {  
            // TODO Auto-generated catch block  
            e.printStackTrace();  
        }  
    }  
}
```

## DataDAO.java – deleteData


```
public void deleteData(int id) {  
    Connection conn = JDBCConnection.getConn();  
    try {  
          
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        try {  
            pstmt.close();  
        } catch (SQLException e) {  
            // TODO Auto-generated catch block  
            e.printStackTrace();  
        }  
    }  
}
```

## Result1.jsp

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
```



## Result2.jsp



## Result3.jsp

```
<h1>저장되었습니다</h1>
```

## Result4.jsp

```
<h1>수정되었습니다</h1>
```

## Result5.jsp

```
<h1>삭제되었습니다</h1>
```

<결과창>

Test.jsp

호출

조회

data1

data2

data3

삽입

id

data1

data2

data3

수정

삭제

Result1.jsp

- 1:aaa1-aaa2-aaa3
- 2:bbb1-bbb2-bbb3
- 3:ccc1-ccc2-ccc3

Result2.jsp

1.aaa1-aaa2-aaa3

Result3.jsp

저장되었습니다

Result4.jsp

수정되었습니다

Result5.jsp

삭제되었습니다

문제2. 위의 문제를 MyBatis를 사용하여 풀어볼 것