

가

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가

xDataSet

xDataSet xFrame5 xDataSet

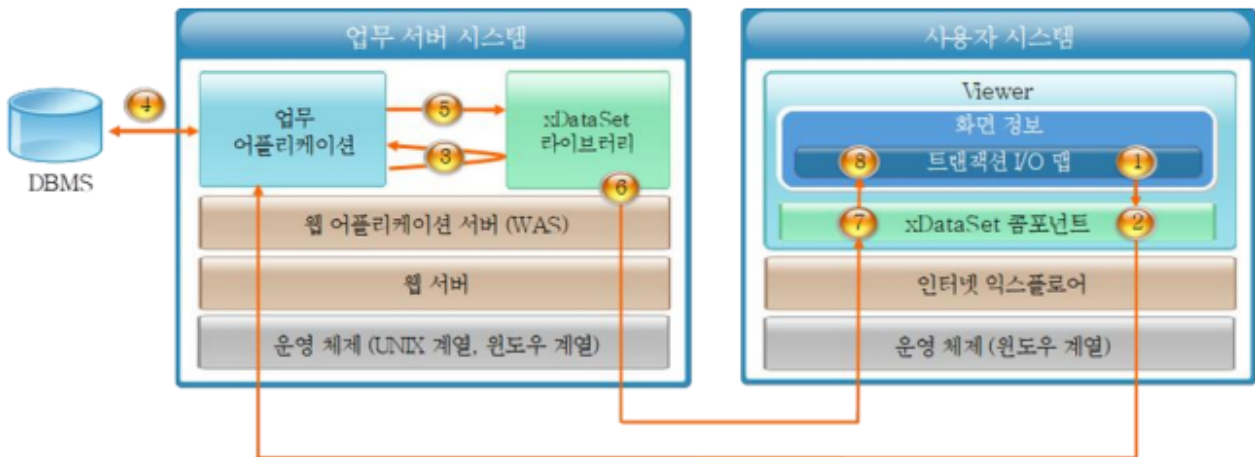
- xDataSet
- xDataSet
- xDataSet

xDataSet

xDataSet xFrame5 UI

xDataSet UI

가



1	가	I/O	ID
2	<ul style="list-style-type: none"> • xFrame-Viewer xDataSet 가 ID 		
3			xdataset5.jar

4	DBMS
5	xdataset5.jar
6	가 , ,
7	xDataSet
8	xDataSet ID

xDataSet

xDataSet

()	<ul style="list-style-type: none"> • • UI 1:N • Query • UI • I/O • First-Row
	<ul style="list-style-type: none"> • UI • • Meta • • First-Row UI

xDataSet

xDataSet

	<ul style="list-style-type: none"> 가
	<ul style="list-style-type: none"> 가



그림. xDataSet 송수신 데이터 구조

URL	<ul style="list-style-type: none"> URL 가 GET URL [XDATASET] xFrame
	<ul style="list-style-type: none">
	<ul style="list-style-type: none">

	<ul style="list-style-type: none"> • • • [trancode] [transactionheader] • : • IP : IP • ID : 가 ID

xDataSet ID

xDataSet ID 가 , ID

	<ul style="list-style-type: none"> • xDataSet ID 가 • xDataSet • xDataSet ID ID
	<ul style="list-style-type: none"> • 가 • xDataSet ID

xDataSet

xDataSet 가

Column	<ul style="list-style-type: none"> • • 가
Description	<ul style="list-style-type: none"> • 가 • Query , • [Comment]
Length	<ul style="list-style-type: none"> • • Query , • [Length]

xFrameViewer
가

xDataSet

가

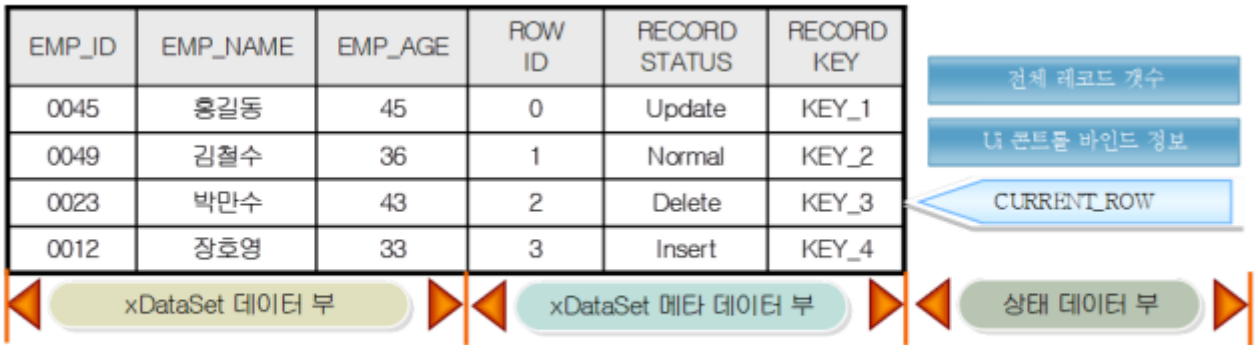


그림. xDataSet 내부 구조

xDataSet		<ul style="list-style-type: none"> • xDataSet • / 가
xDataSet	ROW ID	<ul style="list-style-type: none"> •
	RECORD_STATUS	<ul style="list-style-type: none"> • NORMAL • NORMAL : () • UPDATE : • DELETE : • INSERT : 가
	RECORD_KEY	<ul style="list-style-type: none"> •

	UI	<ul style="list-style-type: none"> • BIND UI • UI
		<ul style="list-style-type: none"> •
	CURRENT_ROW	<ul style="list-style-type: none"> • 가 • 가 • , UI 가 • 가 • UI 가 ROW가

URL

- ID
- ID
-
-

ID

URL

URL

ID

URL

- URL = BASE_URL + TRANSACTION_URL

BASE_URL

URL

, URL
[UI] - [UI]

ID

가

/

	ALL	가
	UPDATE	[RECORD STATUS] 가 "UPDATE, DELETE, INSERT"
	CHECKED	<ul style="list-style-type: none"> • Check • Check [use_checkrow] [multi_checkrow] • ,
	UPDATE	[RECORD KEY] 가
	CLEAR	,

xDataSet

xDataSet

UI

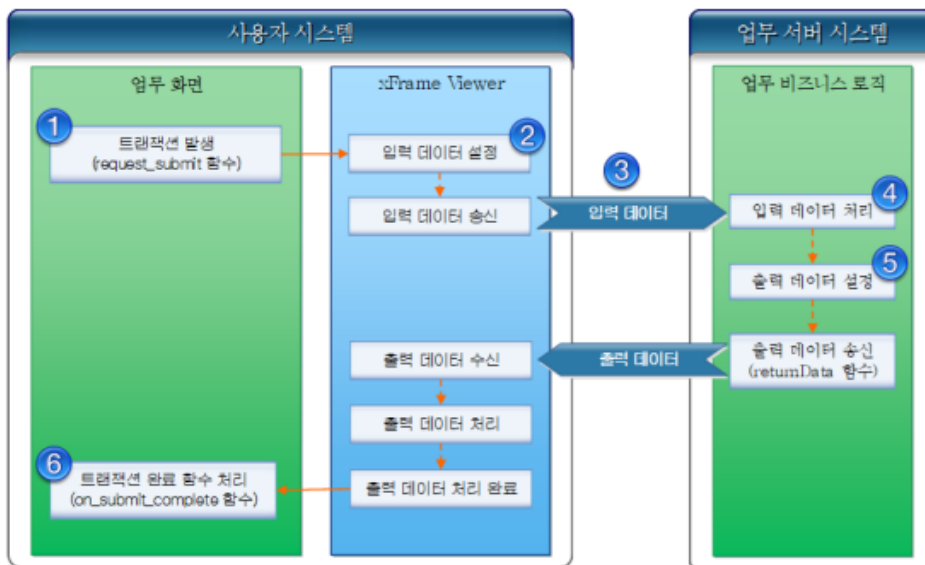


그림. 일반 데이터 처리 흐름도

1	UI (: []) request_submit()
2	xFrame Viewer ID URL IO
3	<ul style="list-style-type: none"> 가 가 [xDataSet -]
4	xdataset5.jar
5	xdataset5.jar
6	xFrame Viewer 가 , 가 on_submit_complete()

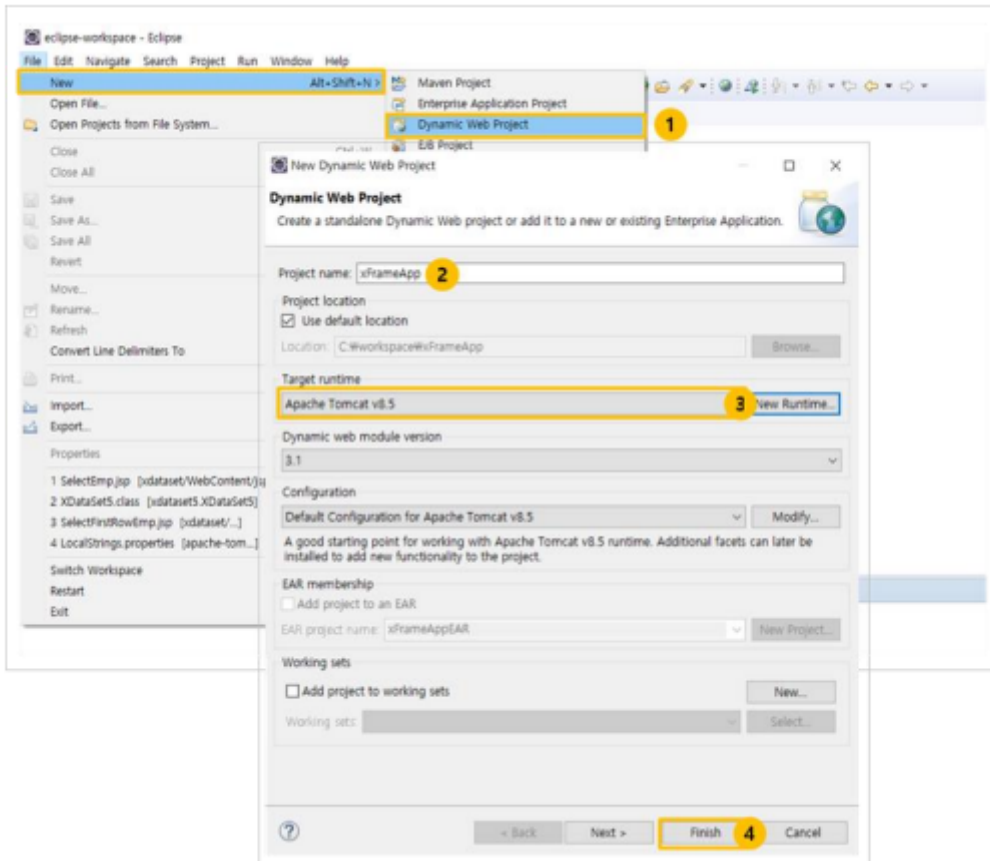
xFrame5

xFrame5 .

- xFrame5
- xFrame5 UI

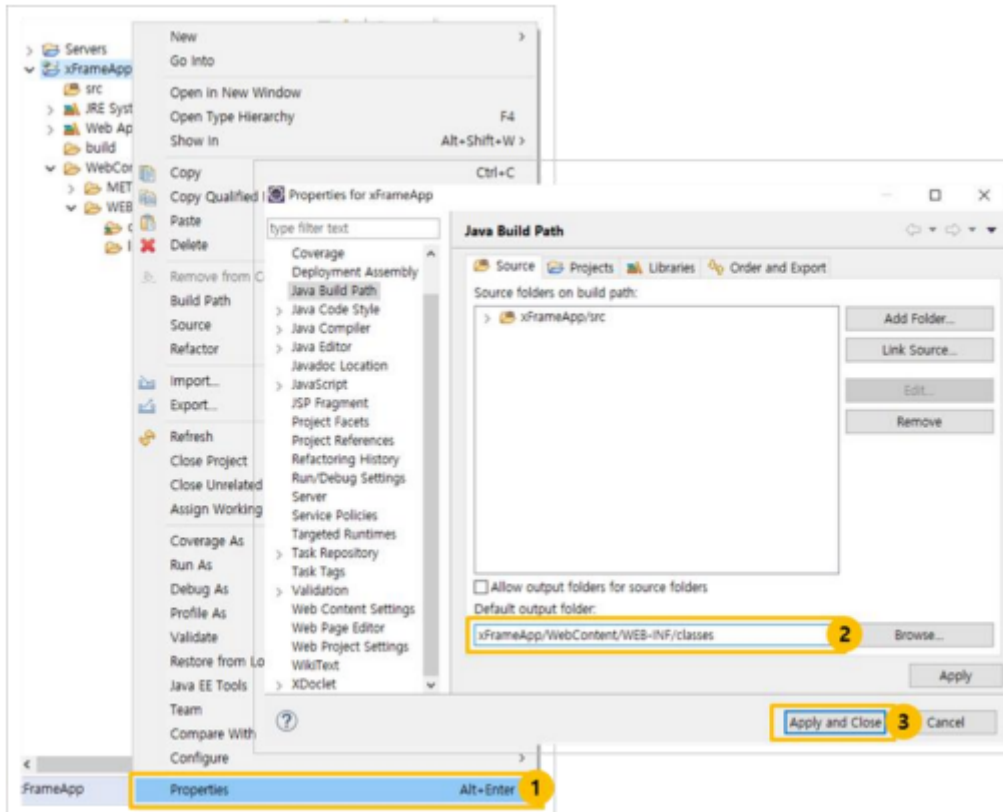
Eclipse

Eclipse . (project name : xFrameApp)



[Properties]
xFrameApp/WebContent/WEB-INF/classes

Default Output Folder
. classes 가



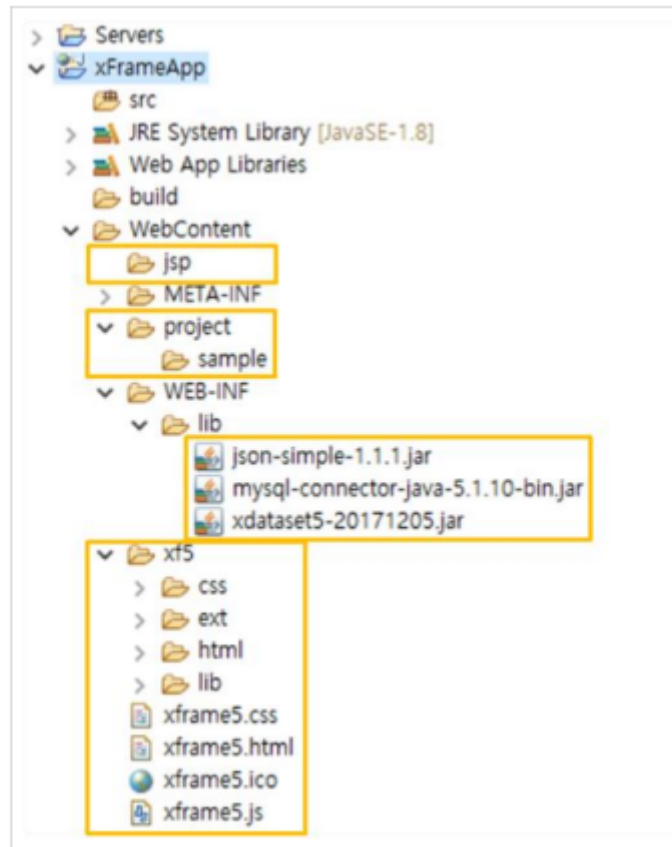
[Window] - [Show View] - [Servers]
(xFrameApp) 가

[Servers]

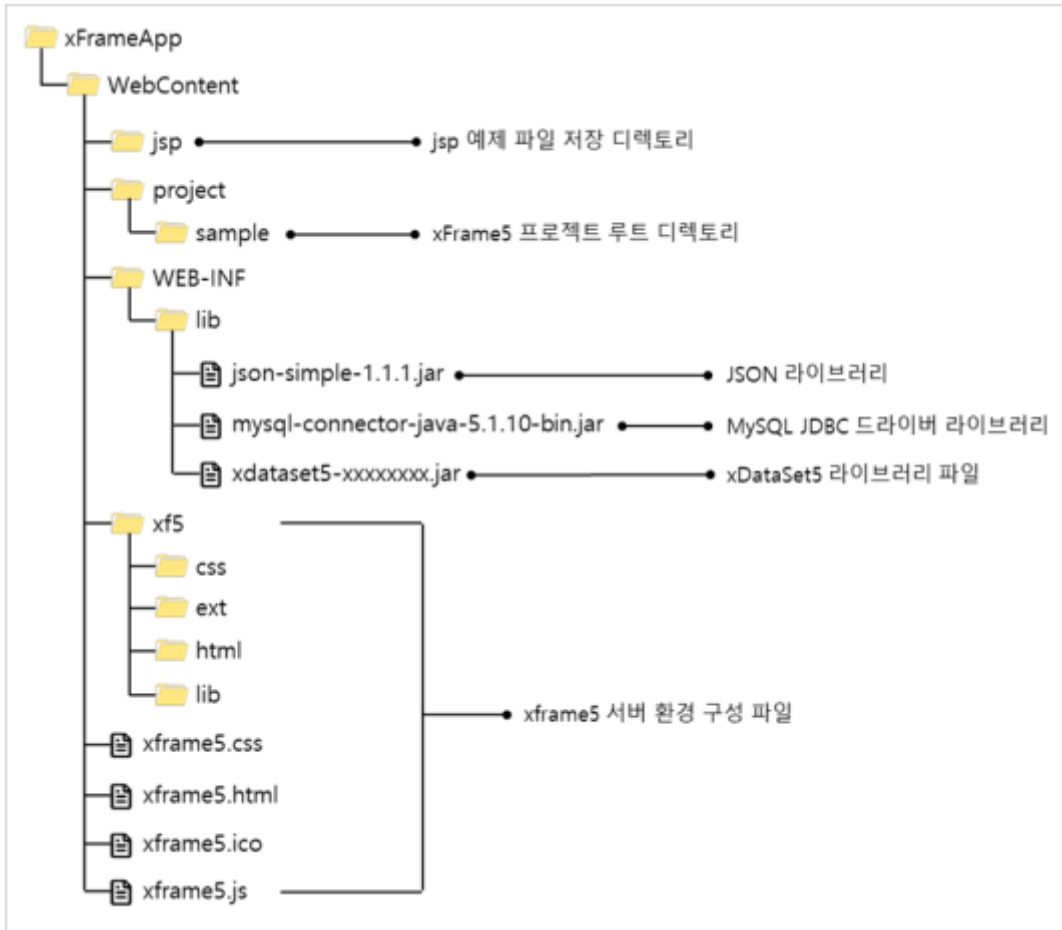


xFrame5

xFrame5



- WebContent project sample
- C:\xFrame5 xframe5.css, xframe5.html, xframe5.ico, xframe5.js WebContent
- xFrame5 C:\xFrame5 xfs , css, ext, html, lib
- WebContent
- C:\xFrame5\jar\ xdataset5-xxxxxxx.jar, mysql-connector-java-5.1.10-bin.jar json-
- simple1.1.1.jar WebContent\WEB-INF\lib\
- WebContent jsp



XDATASET_BASEURL

xframe5.js XDATASET_BASEURL <http://127.0.0.1:8080/xFrameApp/jsp/>

```

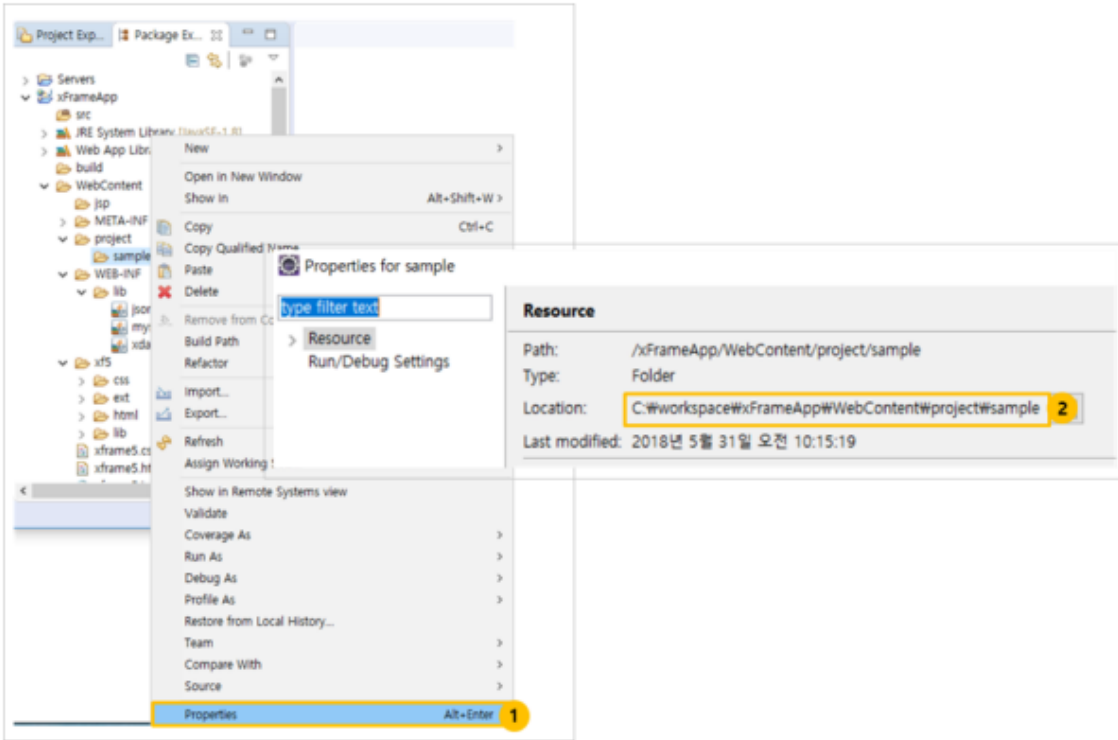
SCREENBASEURL: './project/sample/screen',
IMAGEBASEURL: './project/sample/image',
PICKLISTBASEURL: './project/sample/picklist',
MENUBASEURL: './project/sample/menu',
STYLEBASEURL: './project/sample/style',
COMMONMODULEBASEURL: './project/sample/screen/common_module',
COMMONXDATASETBASEURL: './project/sample/screen/common_xdataset',
XDATASET_BASEURL : 'http://127.0.0.1:8080/xFrameApp/jsp/',
XTRAN_COMPRESS: true,
XTRAN_TIMEOUT: 1000 * 60 * 60,
XTRAN_DATAFORMAT: 'json',
XTRAN_SENDDATAKEY: 'XDATASETS',
XTRAN_URLENCODING: true,
XTRAN_XMLSENDDATAFUNC: 'XTRAN_XMLSENDDATAFUNC',
XTRAN_XMLRECVDATAFUNC: 'XTRAN_XMLRECVDATAFUNC',

```

UI

xFrame5

Eclipse xFrameApp WebContent\project\sample
 [Properties] xFrame5@DevStudio



xFrame5@DevStudio

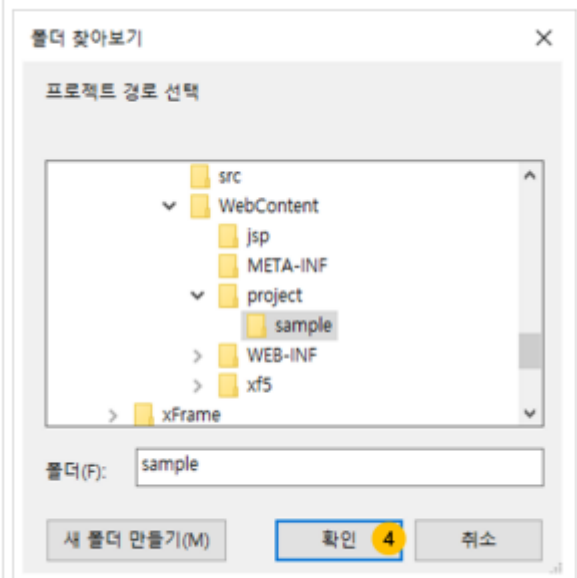
xFrame5@DevStudio

DevStudio

[File] > []

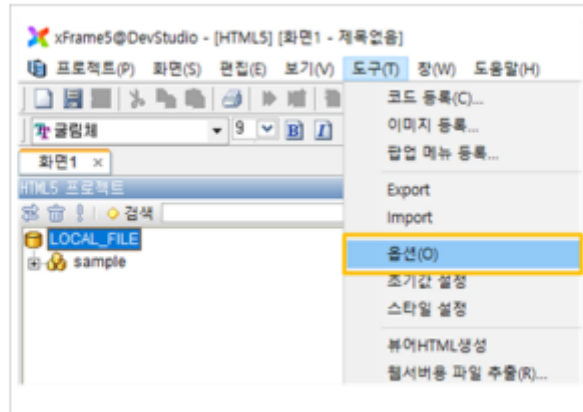
[xFrame5

[sample]

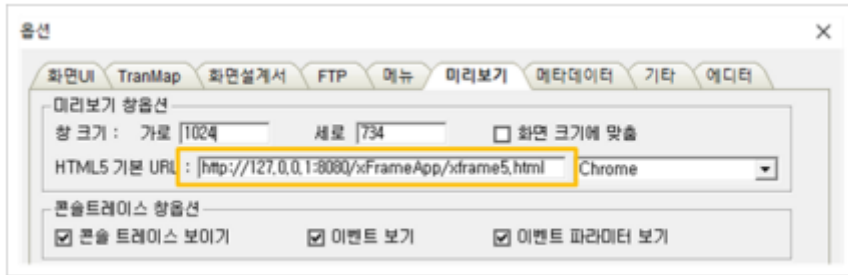


UI

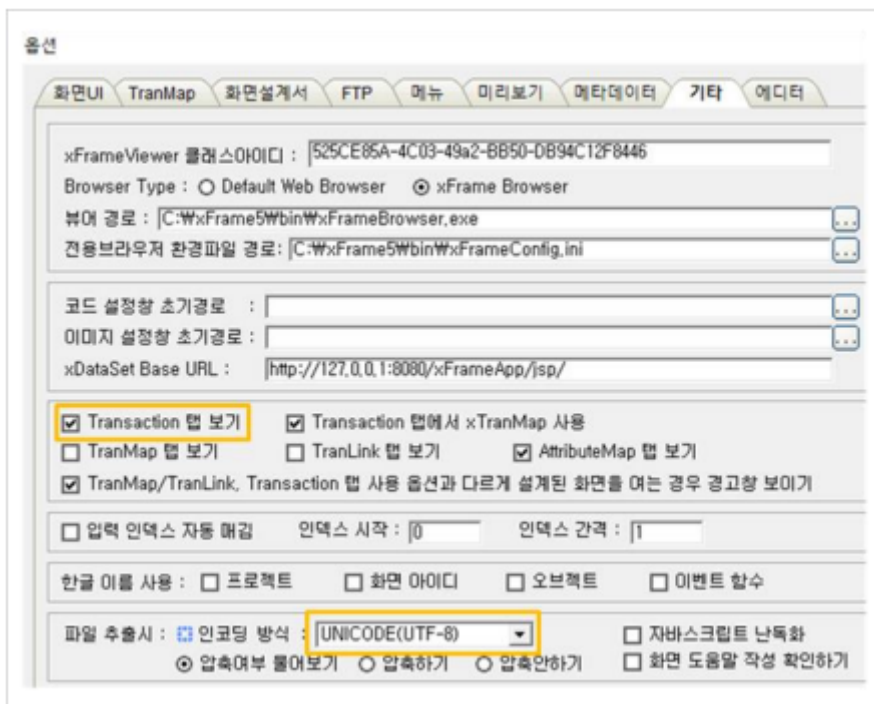
xFrame5@DevStudio [] [] .



[] HTML5 URL <http://127.0.0.1:8080/xFrameApp/xframe5.html> .



[] Transaction , UTF-8 .



xDataSet

xDataSet

xDataSet

-
- DB
- UI

xDataSet

, xDataSet

	Eclipse	https://www.eclipse.org/
	Tomcat	http://tomcat.apache.org/
DB	MySQL	https://www.mysql.com/

직원번호	직원이름	직원나이	메일주소



127.0.0.1:8080/xFrameApp/xframe5.html?xframe_screen_url=/xDataset/Em

직원번호	직원이름	직원나이	메일주소
100112	곽경환	42	khkwak@softbase.co.kr
100223	김경환	43	khkim@softbase.co.kr
100212	김용상	36	yskim@softbase.co.kr
100215	김용완	54	ywkim@softbase.co.kr
100133	김용진	31	yjkim@softbase.co.kr
100111	김우섭	49	wskim@softbase.co.kr
100325	김종욱	37	jwkim@softbase.co.kr
100117	김종인	47	jikim@softbase.co.kr
100218	김지태	33	jtkim@softbase.co.kr
100319	방인홍	36	lhbang@softbase.co.kr
100118	유동근	40	dkyou@softbase.co.kr
100312	유승한	29	shyou@softbase.co.kr
100124	임기조	35	kjlim@softbase.co.kr
100115	전시교	50	skjeon@softbase.co.kr
100226	정학길	28	hkjung@softbase.co.kr
100221	홍성일	50	sihong@softbase.co.kr

DB

,

]

DB

: EMP_INFO

			Key	Comment
emp_no	CHAR	6	PK	
emp_name	VARCHAR	20	-	
emp_age	INT	-	-	
mail_addr	VARCHAR	100	-	

```
CREATE TABLE `emp_info` (
  `emp_no` CHAR(6) NOT NULL COMMENT ' ',
  `emp_name` VARCHAR(20) DEFAULT NULL COMMENT ' ',
  `emp_age` INT(3) DEFAULT NULL COMMENT ' ',
  `mail_addr` VARCHAR(100) DEFAULT NULL COMMENT ' ',
  PRIMARY KEY (`emp_no`)
) ENGINE=INNODB DEFAULT CHARSET=utf8;
```

```
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100111',' ',49,'wskim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100112',' ',42,'khkwak@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100115',' ',50,'skjeon@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100117',' ',47,'jikim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100118',' ',40,'dkyou@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100124',' ',35,'kjlilim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100133',' ',31,'yjkim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100212',' ',36,'yskim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100215',' ',54,'ywkim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100218',' ',33,'jtkim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100221',' ',50,'sihong@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
```

```

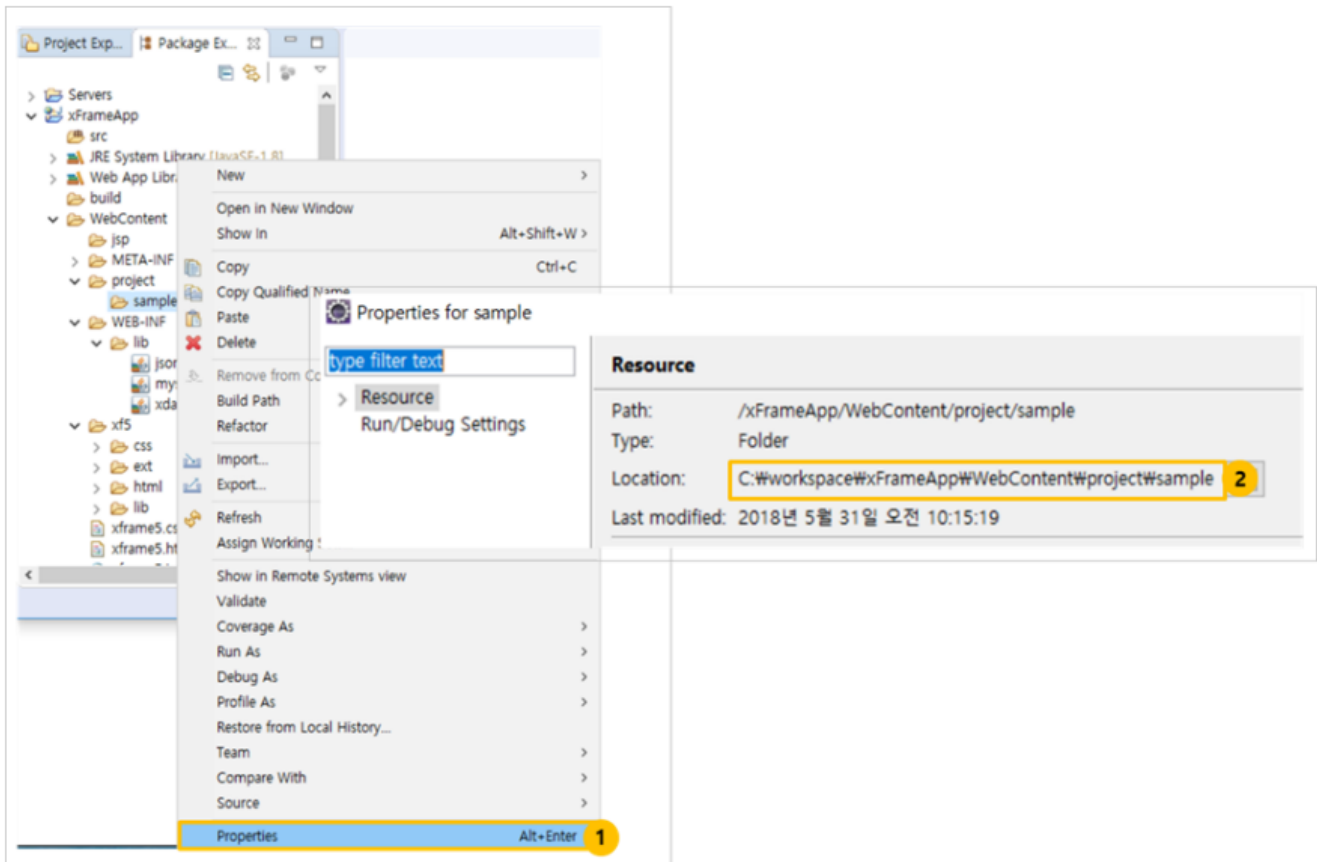
('100223','      ',43,'khkim@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100226','      ',28,'hkjung@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100312','      ',29,'shyou@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100319','      ',36,'ihbang@softbase.co.kr');
INSERT INTO `emp_info`(`emp_no`,`emp_name`,`emp_age`,`mail_addr`) VALUES
('100325','      ',37,'jwkim@softbase.co.kr');
commit;
    
```

UI

UI

xFrame5

Eclipse xFrameApp WebContent\project\sample
 [Properties] xFrame5@DevStudio



xFrame5@DevStudio

xFrame5@DevStudio

DevStudio

[File] > []

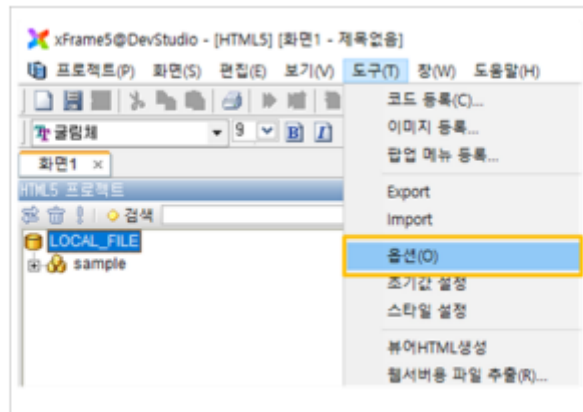
[xFrame5

[sample]

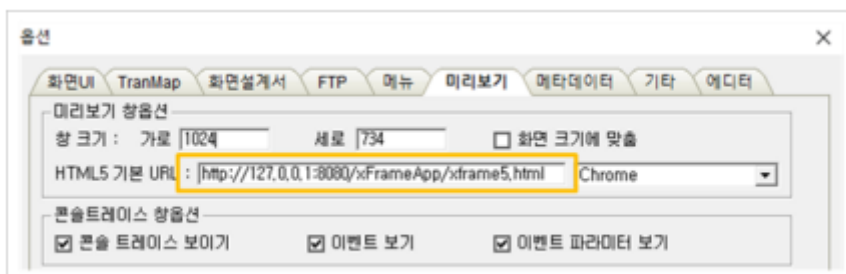


UI

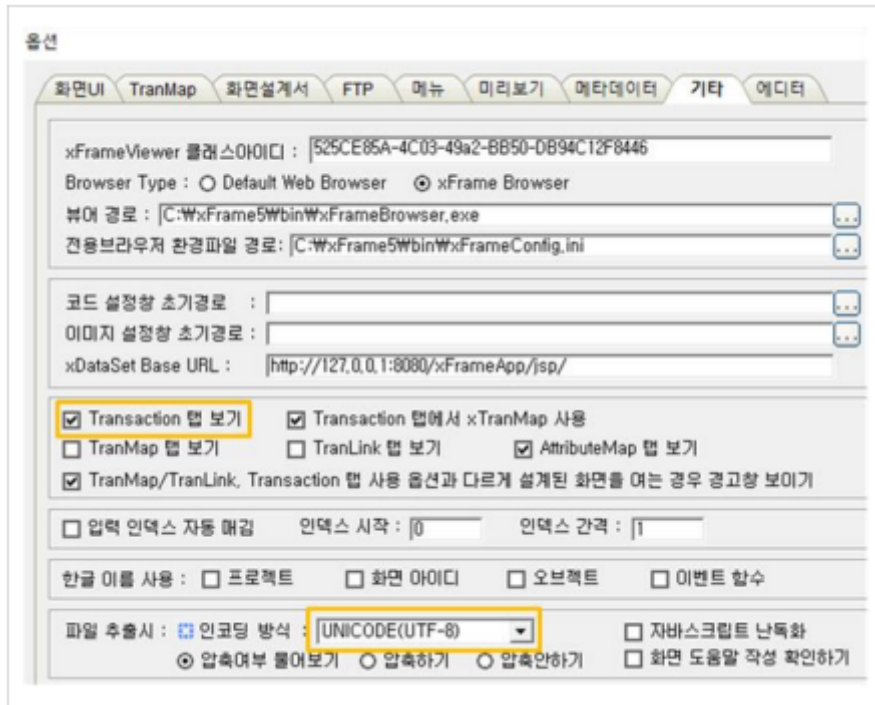
xFrame5@DevStudio [] []



[] HTML5 URL <http://127.0.0.1:8080/xFrameApp/xframe5.html>



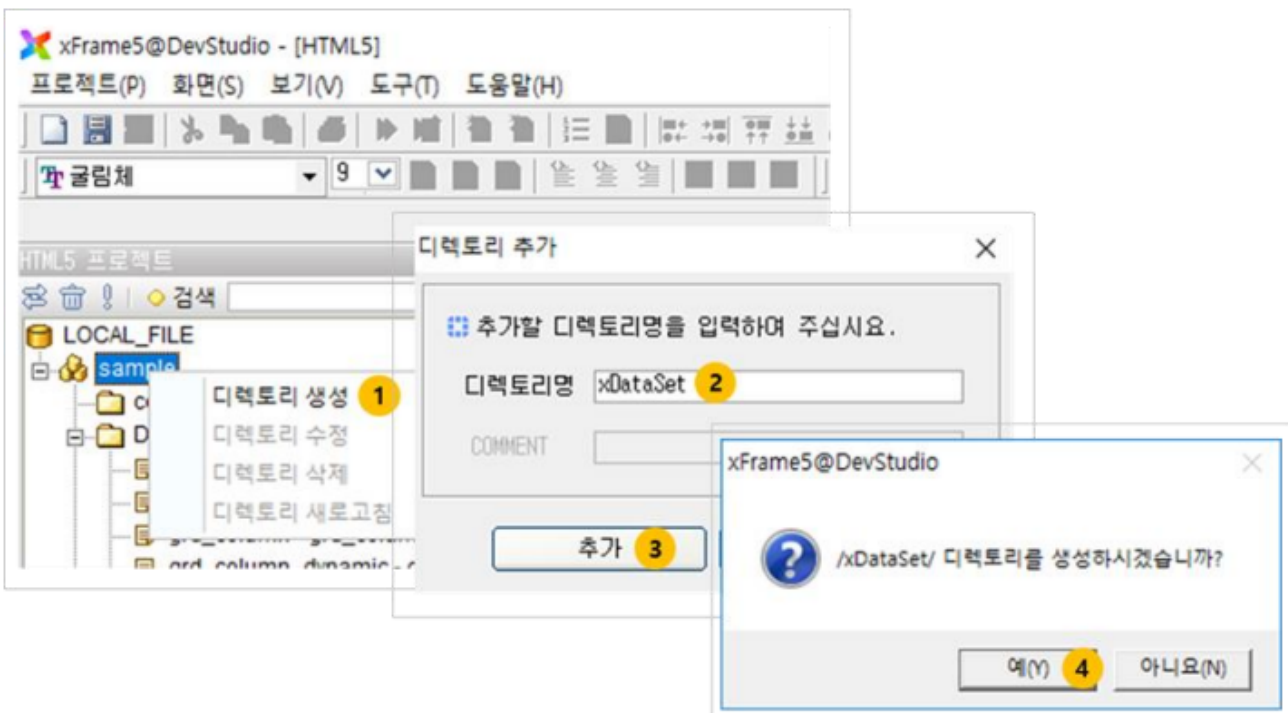
[] Transaction , UTF-8



UI

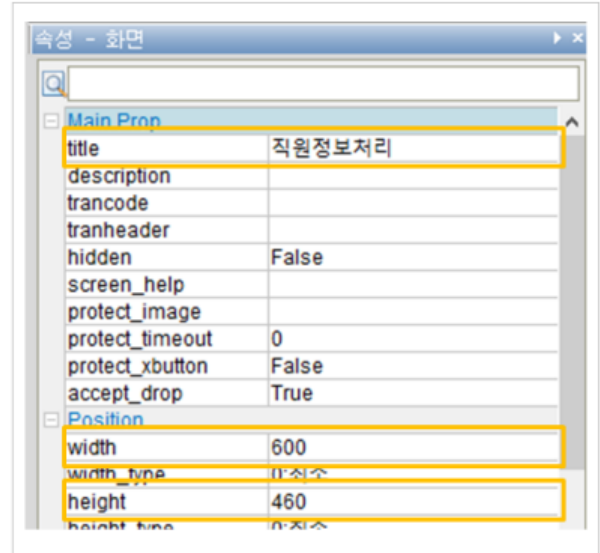
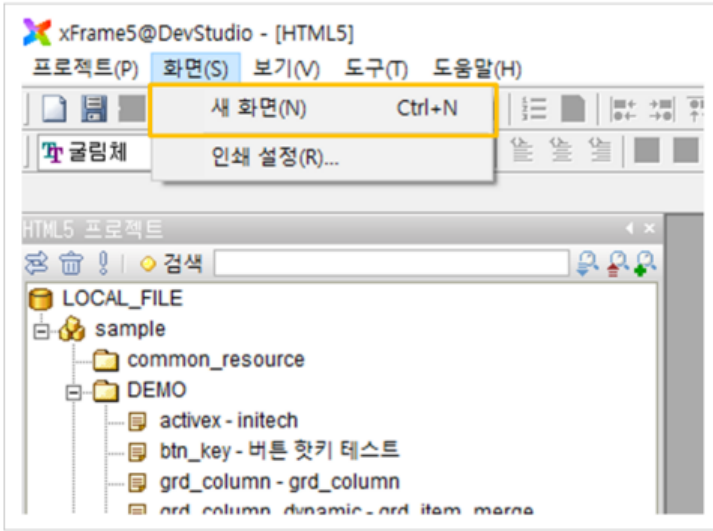
“xDataset”

[]



[] []

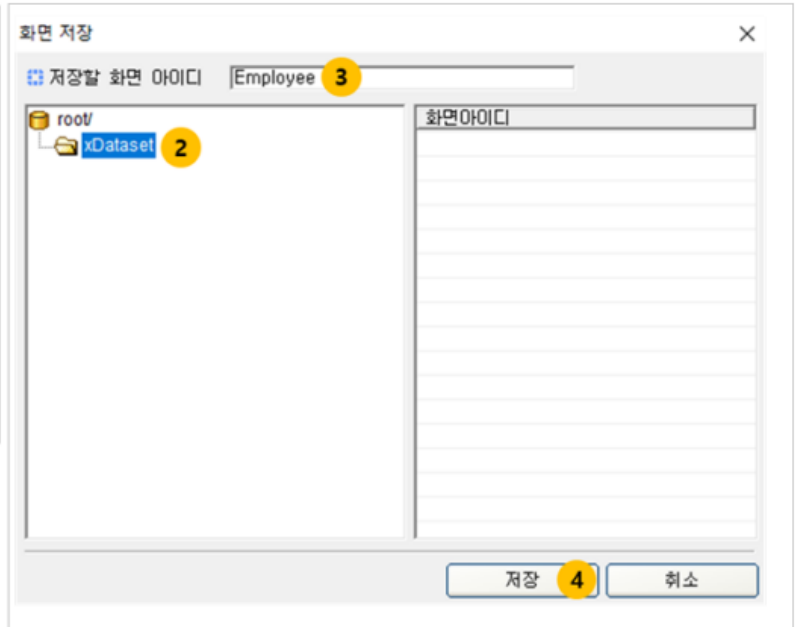
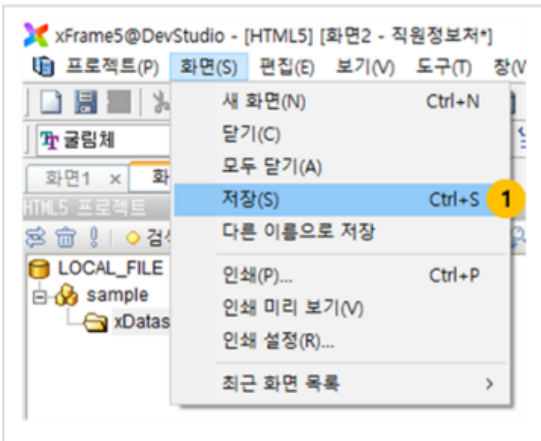
title, width, height



[] []

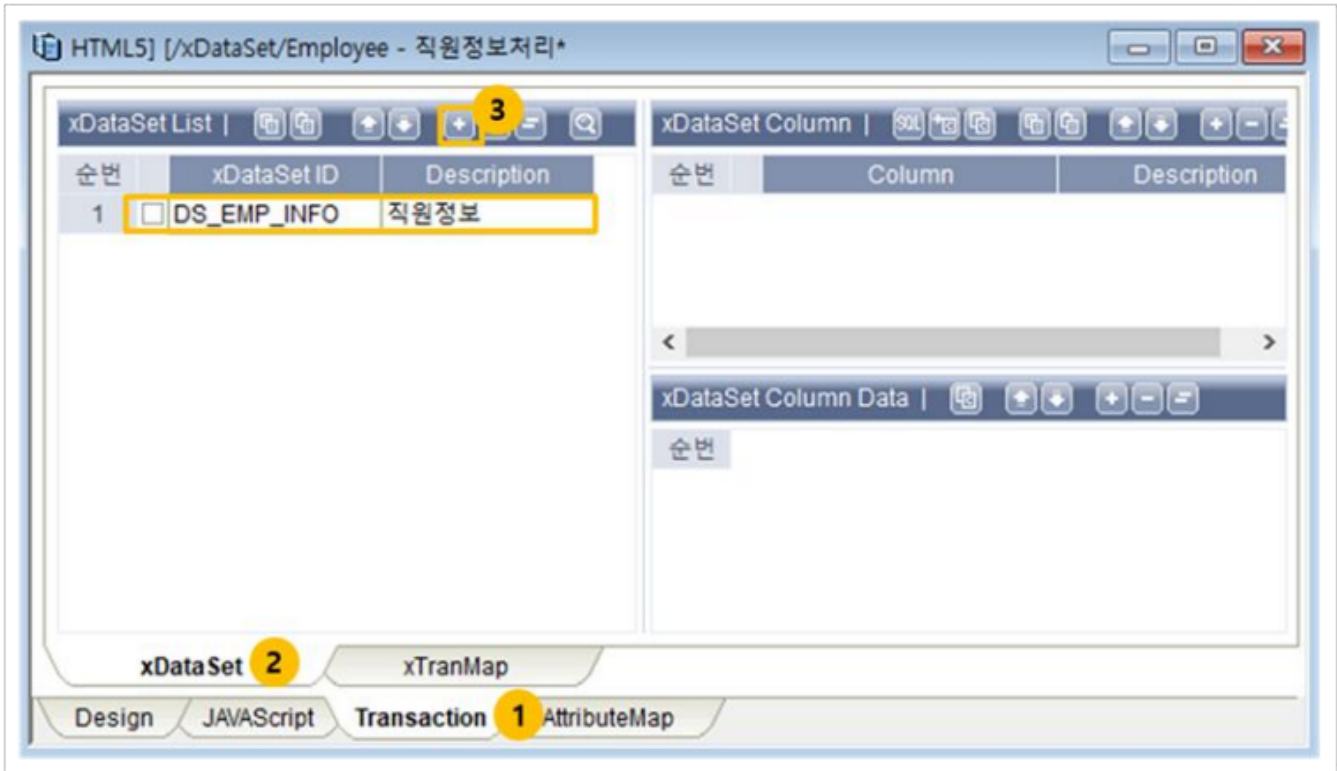
[xDataset]

“Employee”



[Transaction] [xDataSet]
[xDataset ID] [Description]

. xDataSet List xDataSet 가



DS_EMP_INFO

. DB
[Column]

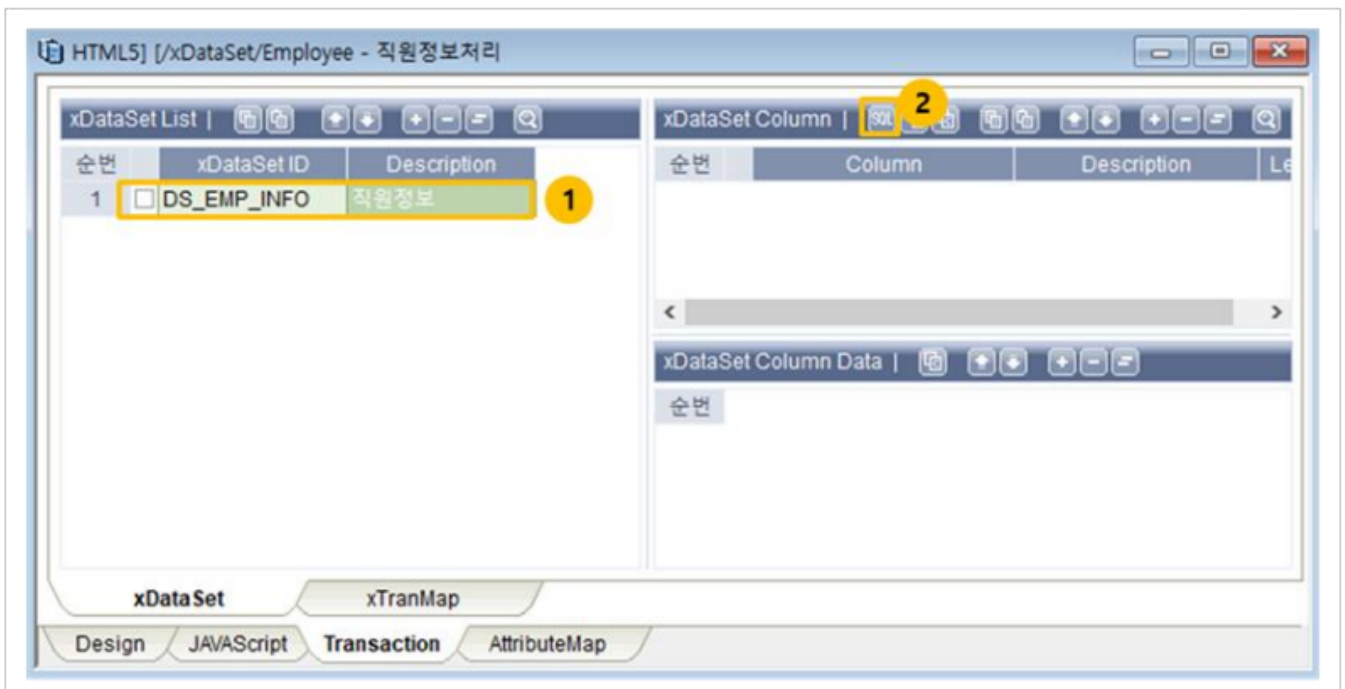
가

xDataSet List [DS_EMP_INFO]

[xDataSet Column]

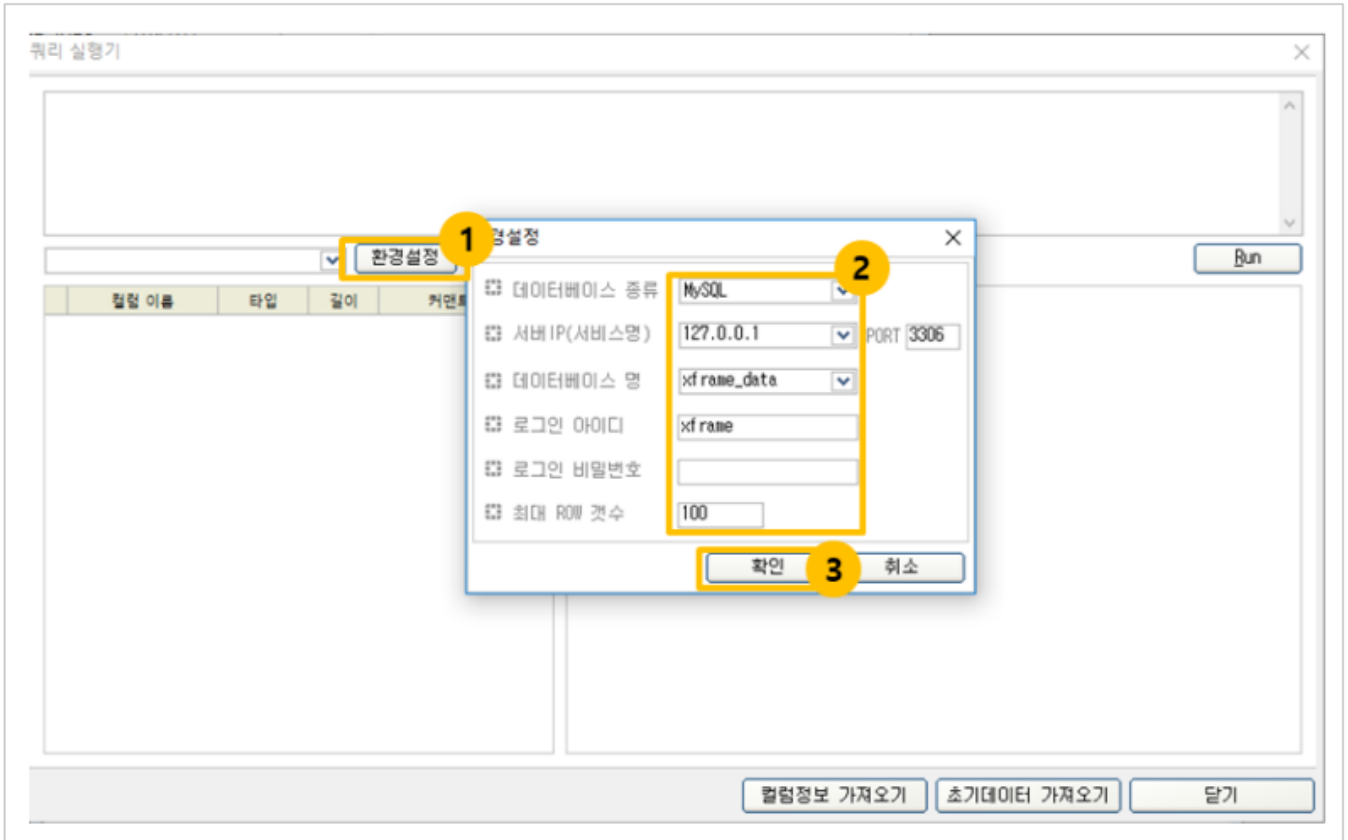
[

]



[]가

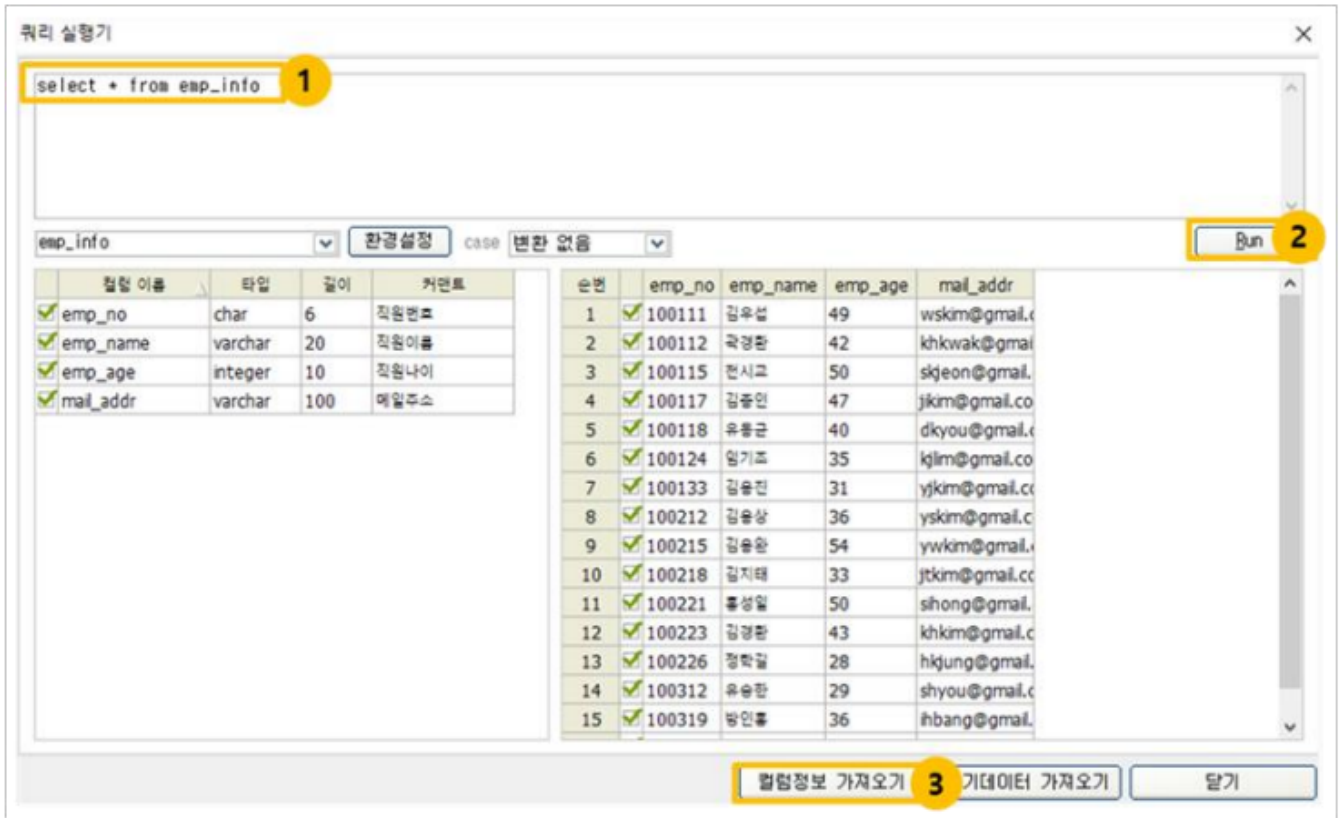
[]



[] “select * from emp_info” [Run] DB
 가 .

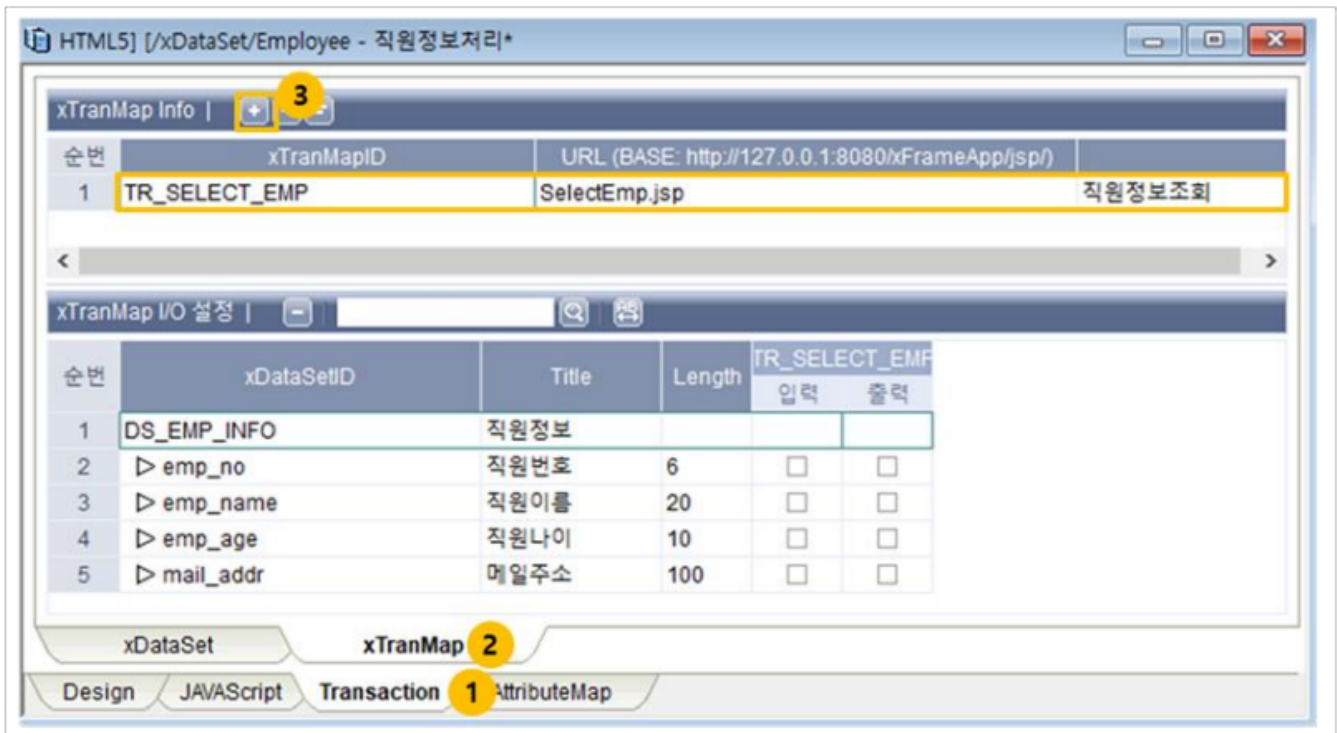
[DS_EMP_INFO] [xDataSet Column] DB [가]

[가] DB [Column Data] 가



[Transaction] [xTranMap]

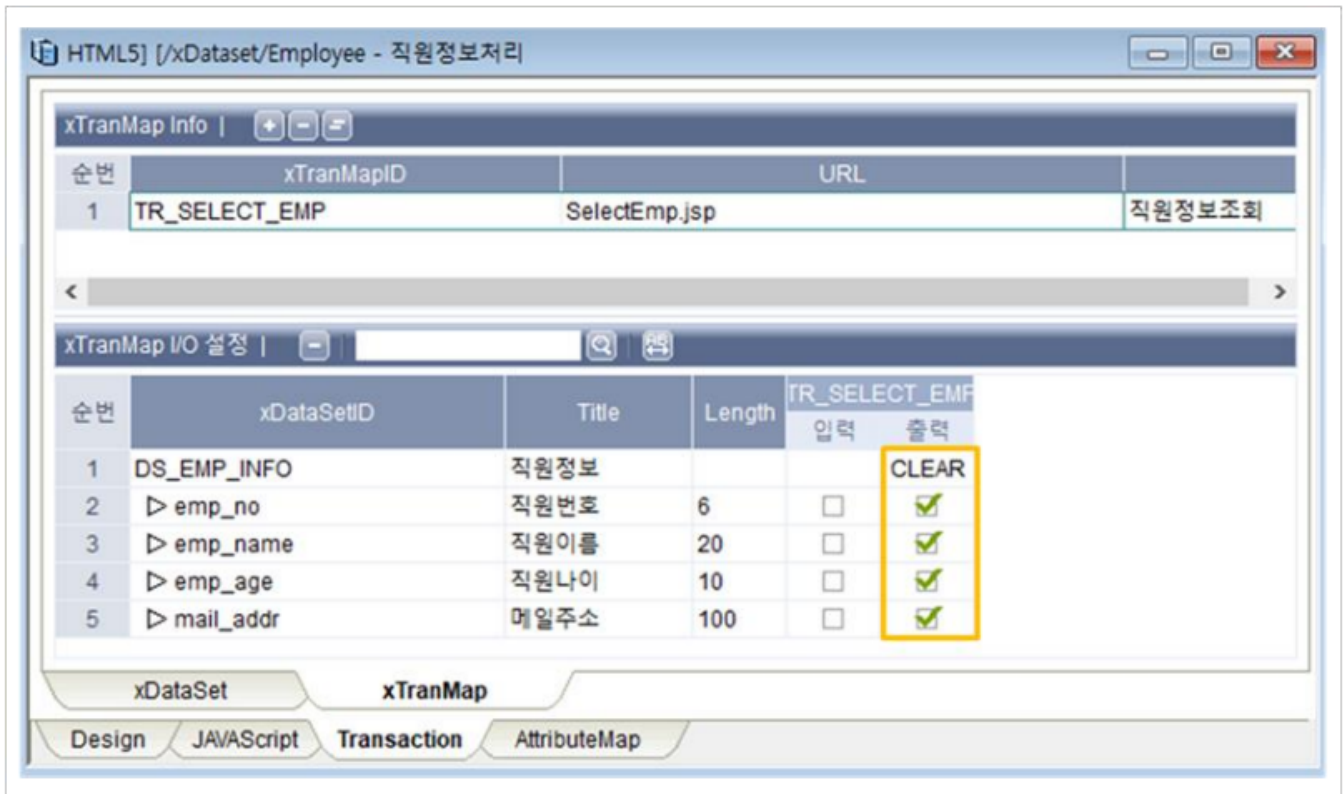
xTranMap Info 가 [xTranMapID], [URL], [Comment]



[xTranMap I/O]

[xDataSet

-



Transaction I/O

xTranMapID			
TR_SELECT_EMP	DS_EMP_INFO	CLEAR	

UI

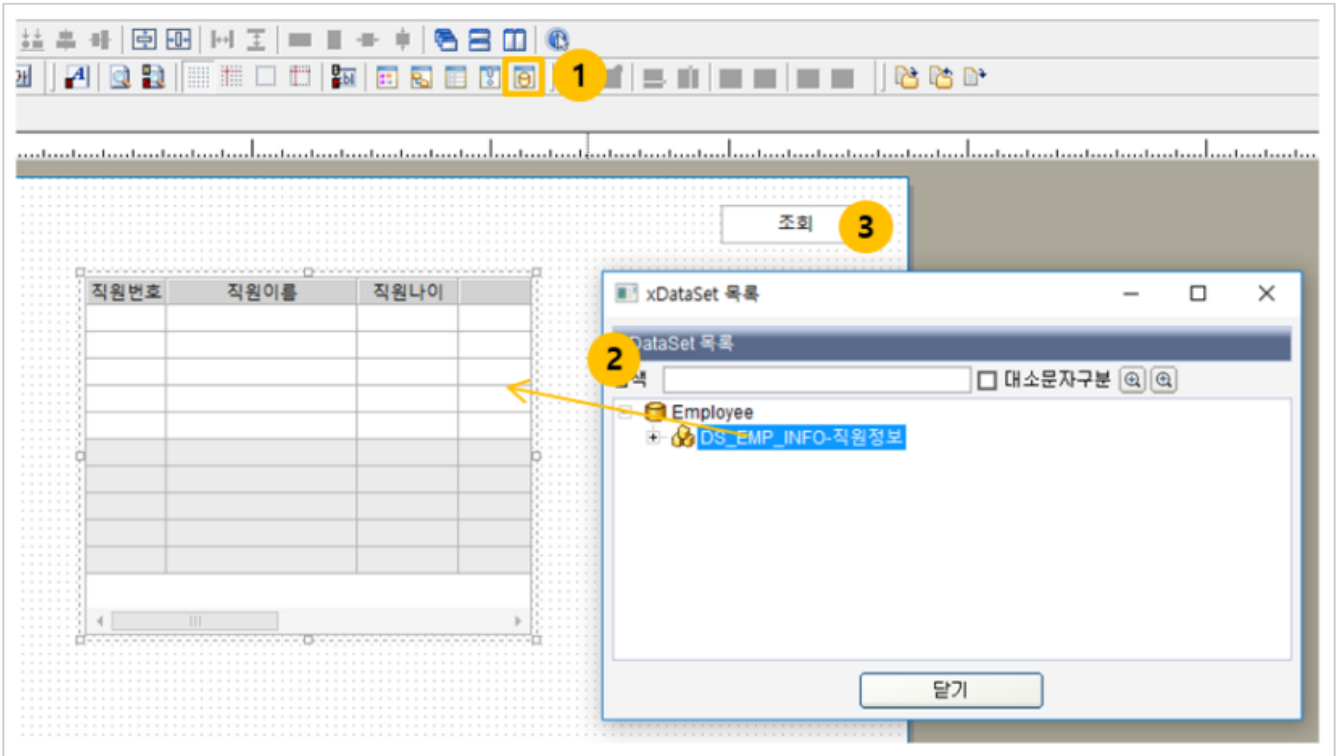
xDataSet

가

xDataSet
[]

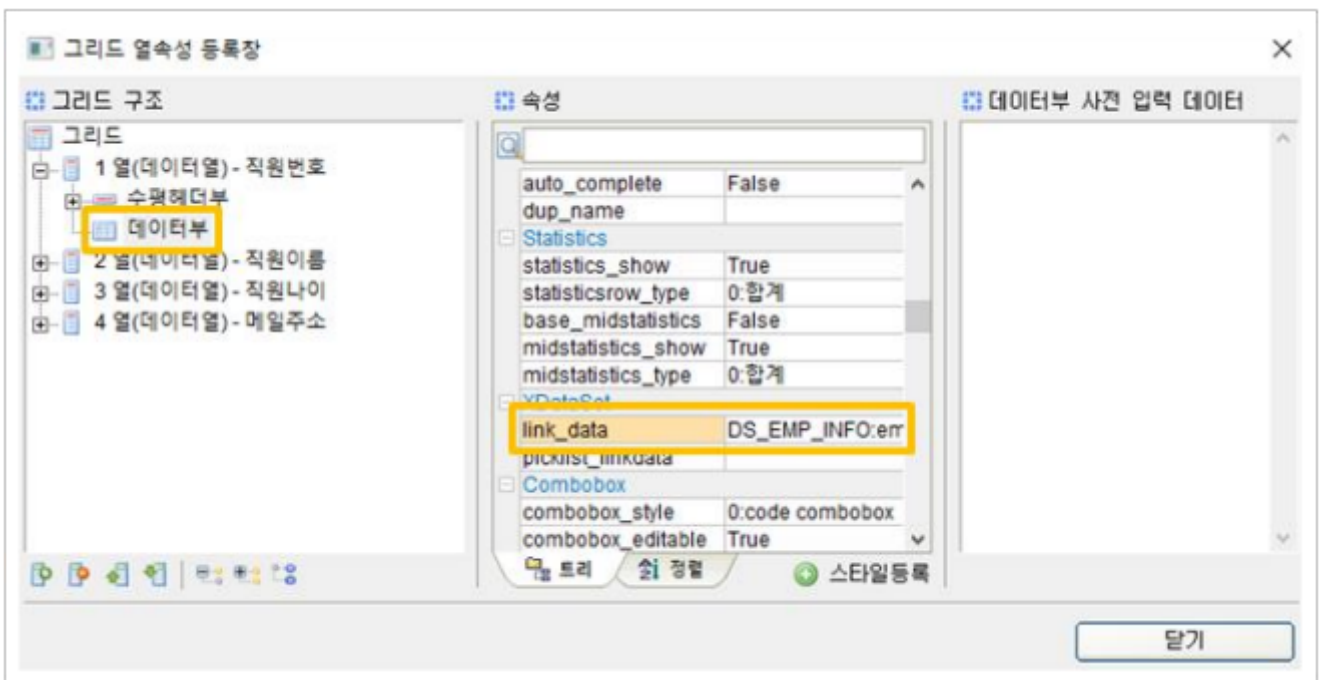
[DS_EMP_INFO]

Drag & Drop

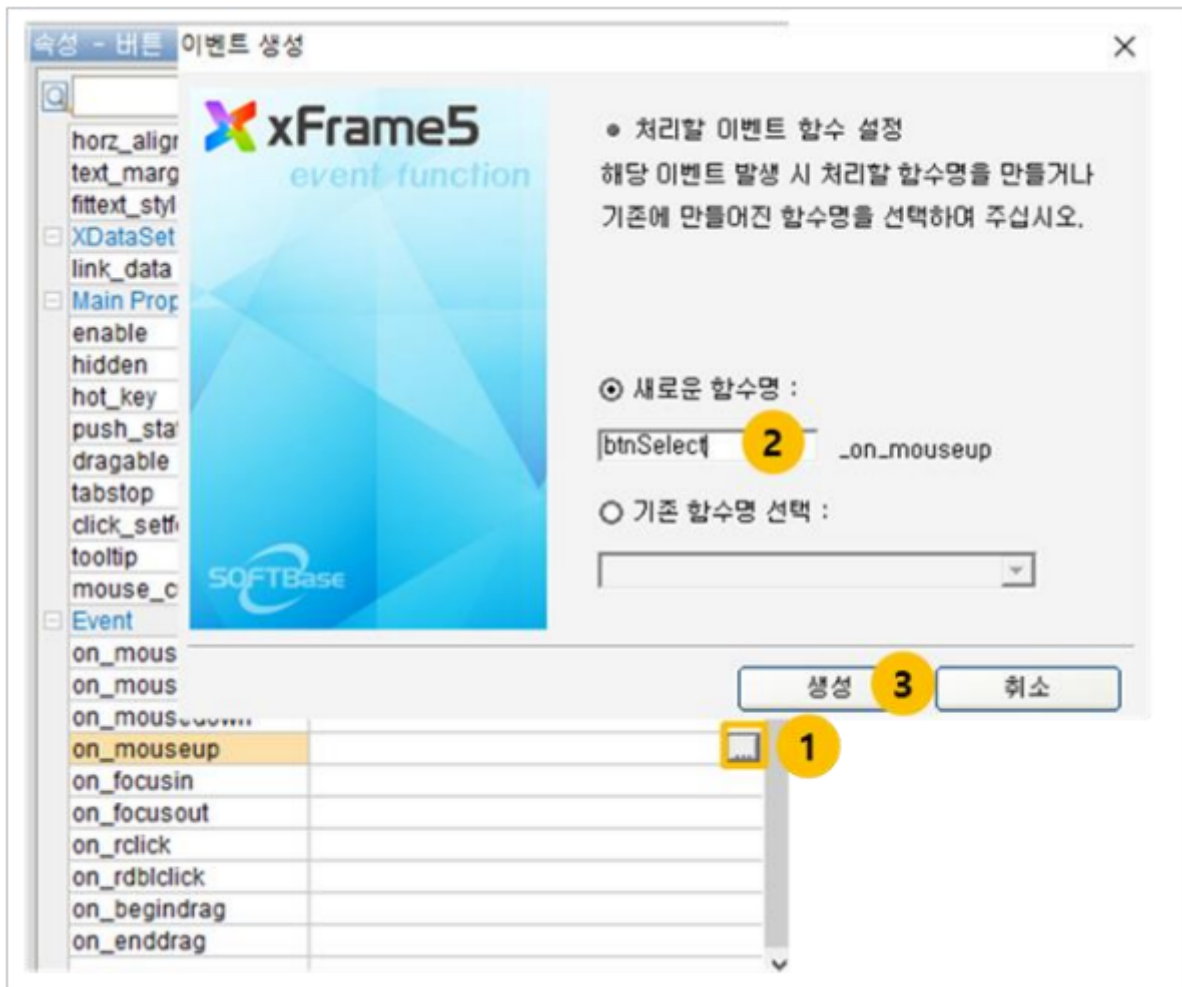


1		name btnSelect
		text
2		name grdEmpList

[[link_data] xDataSet ID Column] . [] [link_data]
 [link_data] [DS_EMP_INFO] [emp_no] Column .



가 [] , on_mouseup



```
function btnSelect_on_mouseup()
{
    screen.requestsubmit("TR_SELECT_EMP", true);
}
```

xTranMapID

가 screen requestsubmit API
 , screen.requestsubmit(strTranMapID, bProcAsync)

strTranMapID	<ul style="list-style-type: none"> ID [xTranMapInfo] ID URL
bProcAsync	<ul style="list-style-type: none"> Sync Async true : Async , on_submitcomplete 가 false : Sync , on_submitcomplete 가

Sync Async

Sync Async

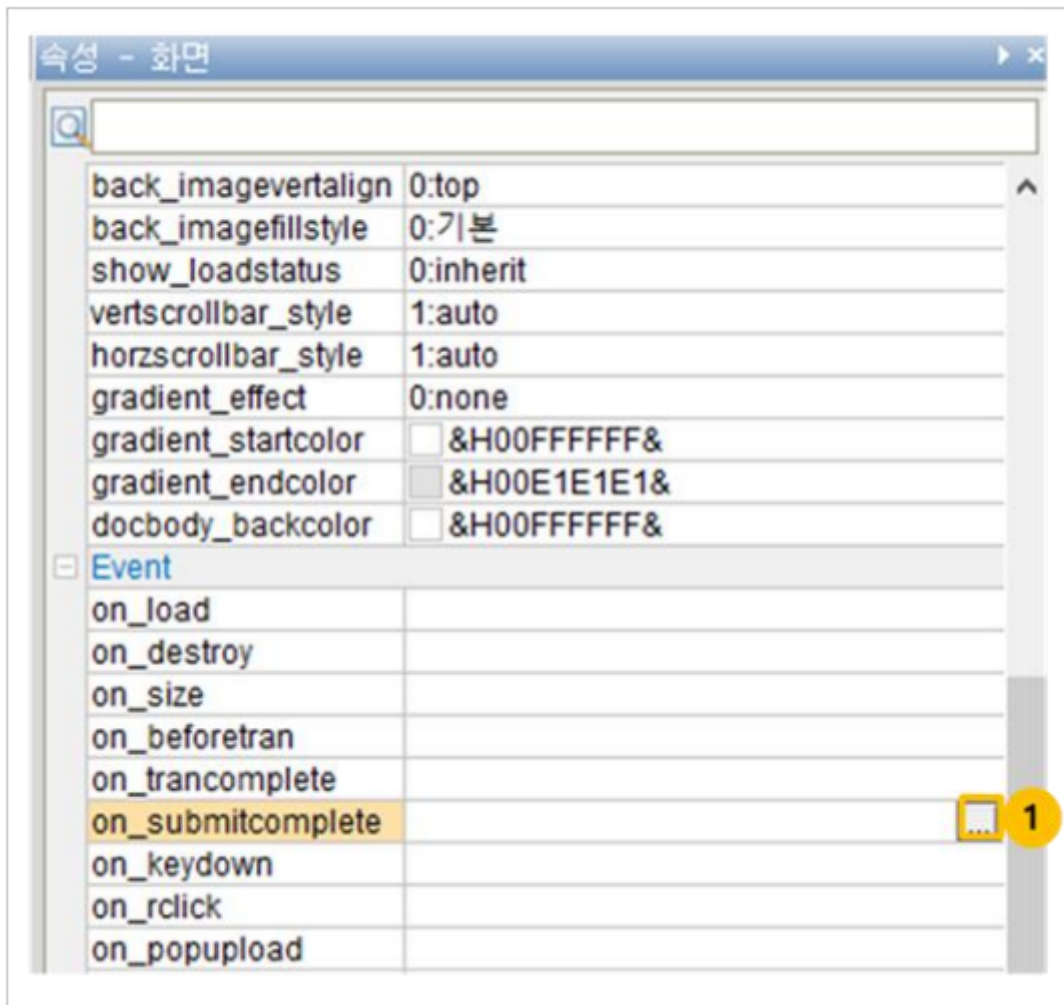
	Sync	Async
	가	가
	requestsubmit	screen_on_submitcomplete 가
	screen	screen_on_submitcomplete
		가

on_submitcomplete 가 xFrame-Viewer

screen_on_submitcomplete

mapid	ID xTranMapID
result	' 1 '
recv_userheader	setUserHeader
recv_code	setErrorMessage
recv_msg	setErrorMessage

on_submitcomplete



```
function screen_on_submitcomplete(mapid, result, recv_userheader, recv_code,
recv_msg)
{
    //
    factory.consoleprint("mapid = " + mapid);
    factory.consoleprint("result = " + result);
    factory.consoleprint("recv_userheader = " + recv_userheader);
    factory.consoleprint("recv_code = " + recv_code);
    factory.consoleprint("recv_msg = " + recv_msg);
}
```

```
<%@ page import="java.sql.DriverManager" %>
<%@ page import="java.sql.Connection" %>
<%@ page import="java.sql.PreparedStatement" %>
<%@ page import="java.sql.ResultSet" %>
<%@ page import="xdataset5.XDataSet5" %>

<%
Connection conn = null;          // DB Connection Object
PreparedStatement pstmt = null; // JDBC PreparedStatement Object
ResultSet rs = null;            // Query Result Set Object
XDataSet5 xDataSet5 = null;     // XFrame XDataSet Object

try {
    // Clear out's buffer
    out.clearBuffer();

    // Create XDataSet object
    xDataSet5 = new XDataSet5(request, response);

    System.out.println("ScreenNo : " + xDataSet5.getScreenNo());
    System.out.println("IP : " + xDataSet5.getTerminalIpAddress());
    System.out.println("Map ID : " + xDataSet5.getTransactionMapId());
    System.out.println("User Header : " + xDataSet5.getUserHeader());

    // For MySQL
    String driverClass = "com.mysql.jdbc.Driver";
    String dbUrl = "jdbc:mysql://localhost:3306/xframe_data";
    String dbUserId = "xframe";
    String dbUserPasswd = "xframe";

    // Load JDBC Driver and connect to database
    Class.forName(driverClass);
    conn = DriverManager.getConnection(dbUrl, dbUserId, dbUserPasswd);

    // Create a select query for EMP_INFO table
    String sQuery =
        "SELECT " +
            "emp_name, emp_no, emp_age, mail_addr " +
        "FROM " +
            "EMP_INFO " +
        "ORDER BY " +
            "emp_name";

    // Create a statement and execute a statement
    pstmt = conn.prepareStatement(sQuery);
    rs = pstmt.executeQuery();
```

```
// Loop a select result records
for(int nRow = 0; rs.next(); nRow++) {
    // Get data from resultset
    String emp_name = rs.getString("emp_name");
    if(emp_name == null) emp_name = "";

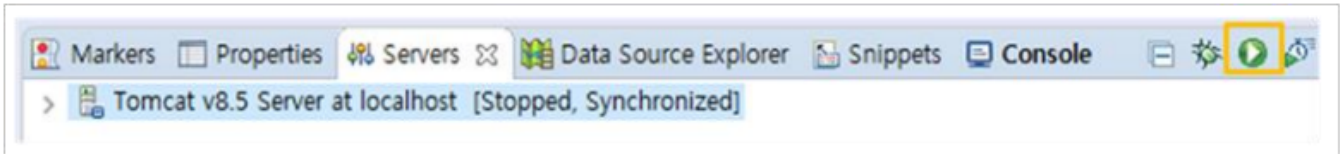
    String emp_no = rs.getString("emp_no");
    if(emp_no == null) emp_no = "";

    String emp_age = rs.getString("emp_age");
    if(emp_age == null) emp_age = "";

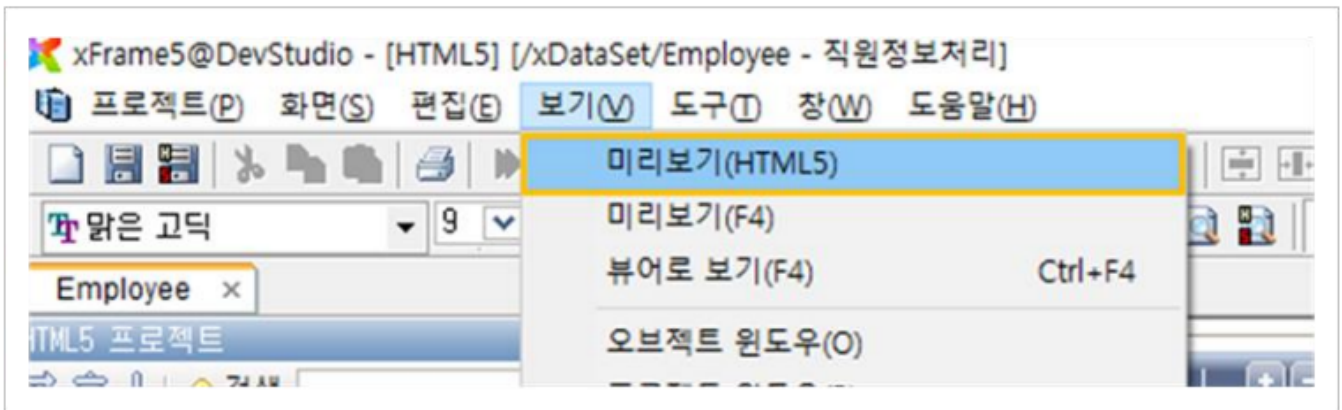
    String mail_addr = rs.getString("mail_addr");
    if(mail_addr == null) mail_addr = "";

    // Set output data to XDataSet object
    xDataSet5.setData("DS_EMP_INFO", "emp_name", nRow, emp_name);
    xDataSet5.setData("DS_EMP_INFO", "emp_no", nRow, emp_no);
    xDataSet5.setData("DS_EMP_INFO", "emp_age", nRow, emp_age);
    xDataSet5.setData("DS_EMP_INFO", "mail_addr", nRow, mail_addr);
}

// Return data to XFrame
xDataSet5.returnData();
}
catch(Exception e) {
    try {
        if(xDataSet5 != null) {
            // Set error code and error message
            xDataSet5.setErrorMessage("XDATASET_ERROR", e.getMessage());
            System.out.println(e.getMessage());
            xDataSet5.returnData();
        }
    }
    catch(Exception ex) {
        System.out.println("Exceptino Msg = " + ex.toString());
    }
}
finally {
    // Release a database resources
    if(rs != null) { try { rs.close(); } catch(Exception ignore) {} }
    if(pstmt != null) { try { pstmt.close(); } catch(Exception ignore) {} }
    if(conn != null) { try { conn.close(); } catch(Exception ignore) {} }
}
%>
```



[] - [(HTML5)]



[] 가

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