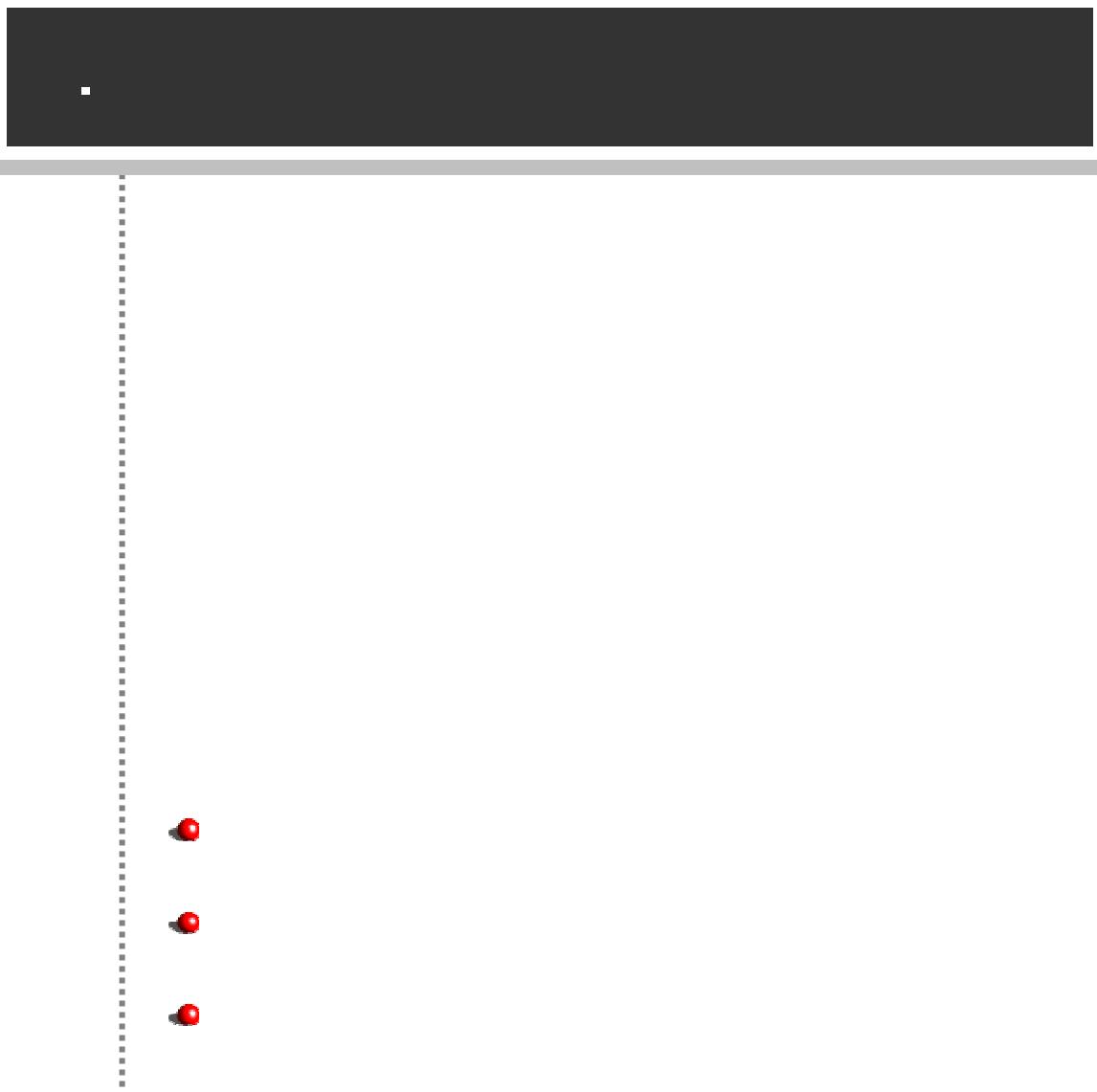


.....	3
.....	4
.....	4
.....	5
.....	7
.....	8
.....	8
.....	10
.....	17
.....	18
.....	27
.....	27
.....	29
.....	32
.....	33
.....	33
.....	34
.....	36
SQL	36
.....	37
.....	56
.....	58
.....	59

.....	63
USL	64
.....	65
.....	66
.....	71
.....	75





가

가



가

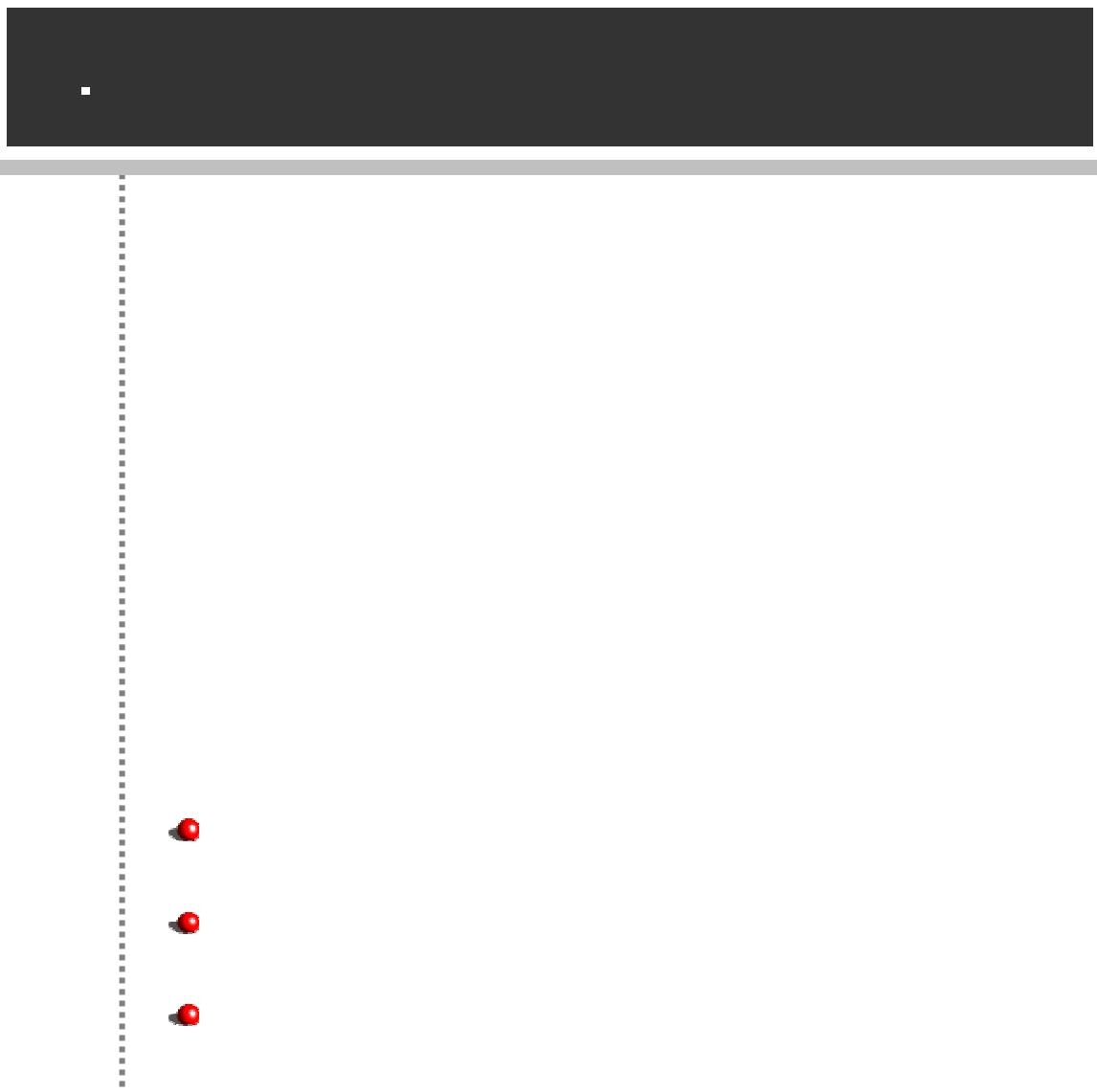
가

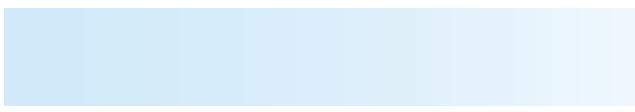
가

가

가

Manual	Description
Getting Started	
가	
가	
가	가





가

(Scripted Query)

가

가

가

가

■

가

(),



가

가

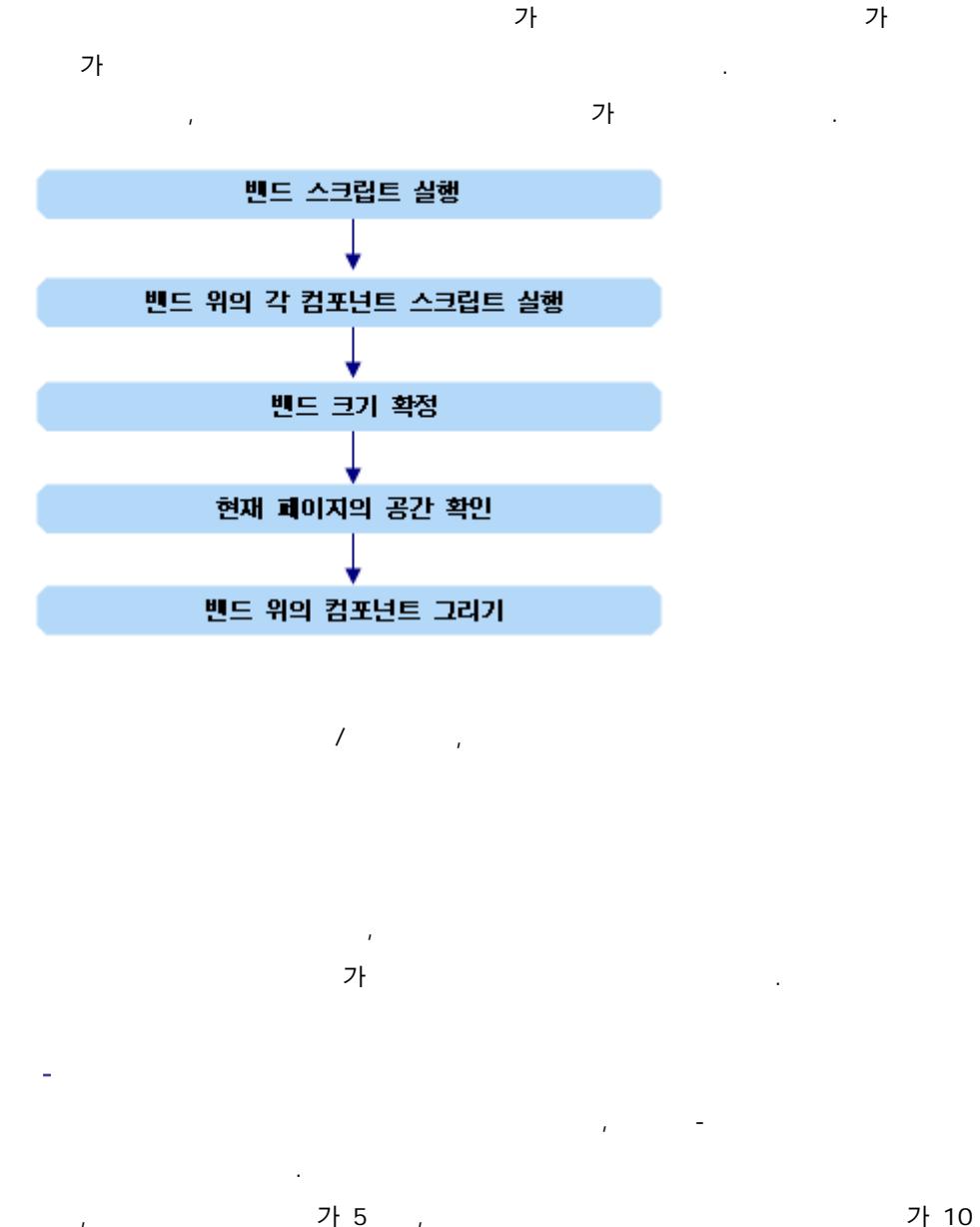
→ → →

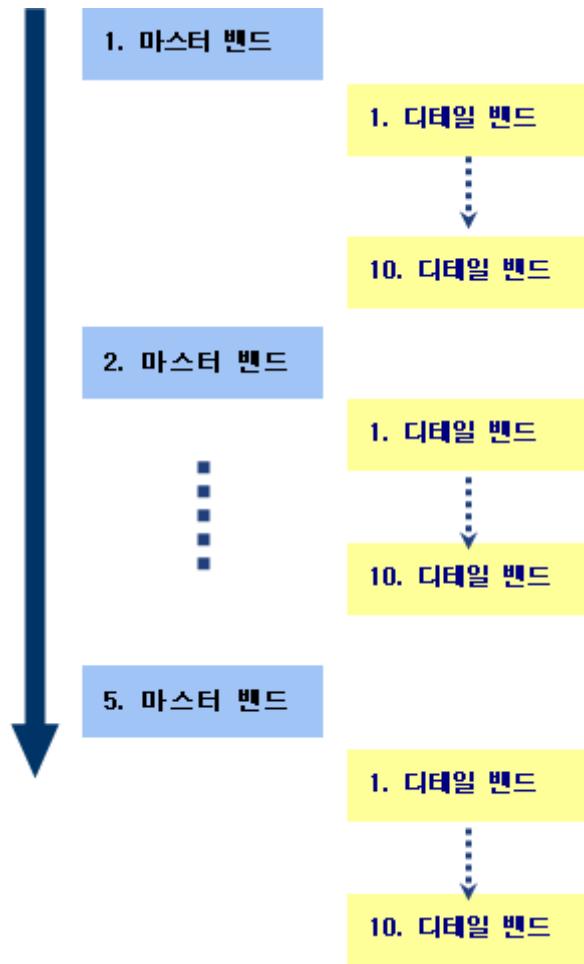
가

가

가

→ → → () → → → →





가

]
] / [] . . . []
, []

[

[]

2

1단계 단일 컴포넌트 및 컨테이너 자체 컴포넌트 스크립트 실행

컴포넌트 위치(절대좌표) 확정

2단계 컨테이너 내부 컴포넌트 및 리전 컴포넌트 스크립트 실행

■ 1 가

) : 1 → 2 → 1
: [1] 1 → 2 → 1

■ 2 가

[1]
[2]
) : 1 → 1 → 1 → 2
: [1] 1 → 1 → 1 → 2
[2] 1 → 1

■ () 가 가 2

1) : 1 → 2
: 1 → 1 → 2 → 2

2)
$$\begin{array}{ccccccc}
 & 1 \rightarrow & 1 \rightarrow & 1 \rightarrow & 2 \\
 : [1] & & 1 & \rightarrow & 1 \\
 [2] & 1 & \rightarrow & & & \rightarrow & 1 \\
 & \rightarrow & 2 & \rightarrow & 2
 \end{array}$$



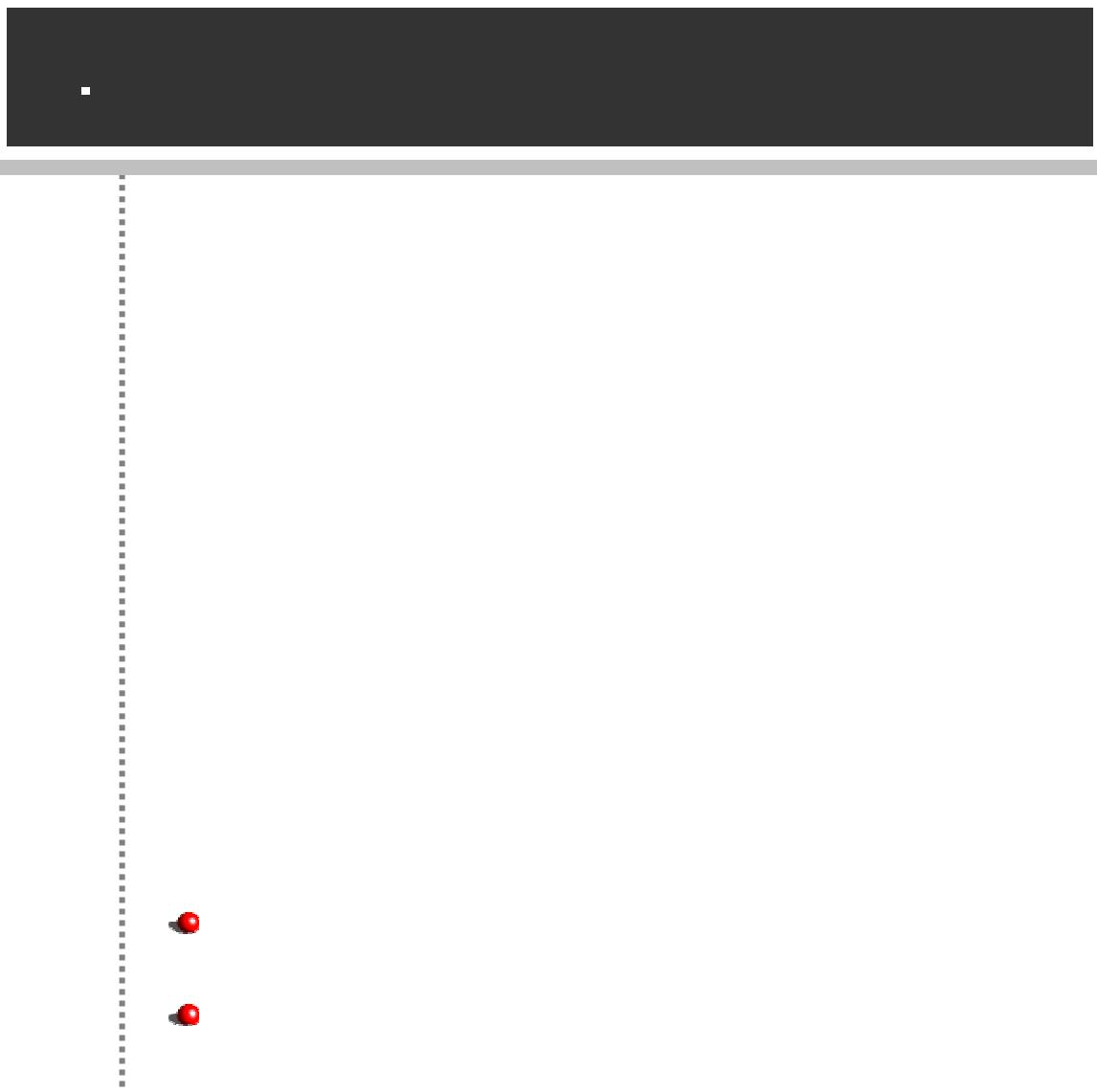
18		16		17
		14	15	()
12	10	1	2	3
	11 ()	4	5	6
13 ()		7	8	9



(Toppose, Leftpose)

() 1 ↗

()가 . 1
, 2
() 가



C 가 .

```
// Comment
/* Comment */
"//"
"/*"  "*/"

■ int : 32 bit      (decimal      )
    : 0
    : -2,147,483,648 ~ 2,147,483,647
) i = 126;           // Ok : decimal '126'
i = 0;               // Ok : i = zero
i = 00;              // Error : oct
i = 0x666;           // Error : hex

■ double :           (           )
    : 0
    : -(+)4.94065645841246544E-324
    : - (+)1.79769313486231570E+324
    : 15 ~ 16
) f = 10.00;
f = 1E1;
```

- **boolean :** ('true' or 'false')
 - : false

- **string :**
 - : ""(Null String)
 - : '\'
 - : "\t" : "\t"
 - : "\n" : "\n"
 - : "\r" : "\r"
 - : "\\" : "\\"
 - : "\u0008" : "\177"(0~255) 가)

■ **Date :**

:

G	Year designator	Text	AD
y	Year	Number	1996
M	Month in year	Text or Number	July or 07 ()
d	day in month	Number	10
h	hour in am/pm (1~12)	Number	12
H	Hour in day (0~23)	Number	0
m	Minute in hour	Number	30
s	Second in minute	Number	55
S	Millisecond	Number	978
E	day in week	Text	Thu (. . . .)
D	day in year	Number	189
F	day of week in month	Number	2 (2nd Wed in July)
w	Week in year	Number	27
W	Week in month	Number	2
a	am/pm marker	Text	PM
k	hour in day (1~24)	Number	24
K	hour in am/pm(0~11)	Number	0

z	Time zone	Text	Pacific Standard Time
'	Escape for text	Delimiter	'
"	Single quote	Literal	"

)

date_ EEE, MMM d, "yy	Wed, July 10, '96
date_ h:mm a	12:08 PM
date_ hh 'o'clock' a, zzzz	12 o'clock PM, Pacific Daylight Time
date_ K:mm a, z	0:00 PM, PST
date_ yyyy' 'MM' 'dd' ' EEE' '	2001 11 01
date_ yy	01
date_ yyyy	2001
date_ E	()
date_ EEE	Wed (USA)

1

가

가

가

0,

int i = 126; // Error :

"::"

```
global int a;
::a = 1;
```

```
global string strMsg;
::strMsg = "Hello";
```

가

```
...
function GetGlobal(){
var str;
str = document.OZReportViewerID.Document.GetGlobal('strMsg');
alert(str);
}
...
<input type="button" value="GetValue" onclick="GetGlobal()">
...
```

"OZReportViewerID"

Object ID

```
...
<OBJECT ID = "ozrviewer" CLASSID="CLSID:
```

```
...
document.ozrviewer.Document.GetGlobal('strMsg');
```



```

- null
      null
, null
.
If (#ODI.Dataset.fieldName# ==null)
{
/* Null      */
}

```

가

	+	/ (Concatenation)
	-	/ (Unary operator)
	*	
	/	
	%	(Modules)
	=	
	==	
	!=	
	<	
	<=	
	>	
	>=	
	&	AND(int 가)
		OR(int 가)
	^	XOR(int 가)
	~	(int 가)
	&&	AND(boolean 가)
		OR(boolean 가)
	!	(boolean 가)

가

int	<code>=, ~, ^ , &, </code>
int,double	<code>=, >, <, <=, >=, ==, !=, *, /, +, -, %</code>
boolean	<code>=, ==, !=, !, &&, </code>
string,date	<code>=, ==, !=</code>

double, int, boolean

int=	double	
	boolean	true 1, false 0
	string	(decimal)
double=	int	
	boolean	true 1, false 0
	string	(decimal)
boolean=	int	0 false, true
	double	0.0 false, true
	string	true true, false
string=	int	
	double	

	boolean	true	true, false	false
Date=	double	가		
	boolean	가		
	string	가		
	date	가		

▪ 가 , double

가

1

```
a = (      )b;  
string s;  
s = "123";  
int i = (int)s;  
i = (int)"12" + (int)"45";      // i = 57  
s = (string)12 + (string)45;    // s = "1245"
```

- Date Type

(parseDate, formatDate)

■ if-else

Statement가

```
{ }

if (expression) {
    statement ;
} else if (expression) {
    statement ;
} else {
    statement ;
}
```

■ **while**

```
    true                                Statement가
    { }
while (expression) {
    statement ;
}
```

ODI

가 "##"

■

```
#ODI      #
) ODI      Car,          Order,          Region
          string FieldValue;
FieldValue = #Car.Order.Region#;
```

: ODI

가

ODI

ODI

OZ

가 ODI

가

ODI

■ **ODI**

```
#ODI      .OZParam.      #
ex) ODI      Car, ODI          Region
          string FieldValue;
FieldValue = #Car.OZParam.Region#;
```

: ODI 가

가

ODI

가 oz

가 ODI

ODI

가

#OZFormParam. #

ex) Title

```
string FieldValue;
```

FieldValue = #OZFormParam.Title#;

#OZSystem. #

ex) 가 PageNumber

```
string FieldValue;
```

FieldValue = #OZSystem.PageNumber#;

Page_of_Total, Total_Page

	(, , ,)
	(, , ,)
	(, , ,)
	(, , ,)
	/
SQL	
	/
USL	

- **double abs(double n)**

n

- **double acos(double n)**

n= -1~1, n arc cosine (0 ~ pi)

- **double asin(double n)**

n= -1~1, n arc sine (-pi/2 ~ pi/2)

- **double atan(double n)**

n arc tangent (-pi/2 ~ pi/2)

- **double atan2(double n, double m)**

n/m arc tangent (-pi ~ pi)

- **double ceil(double n)**

n 가 ,

ex) ceil(1.4235) → 2.0

- **double cos(double n)**

n cosine

- **double exp(double n)**

e n , e = 2.71828183...

- **double floor(double n)**

n 가 ,

ex) floor(1.4235) → 1.0

- **double log(double n)**

n log

- **max(arg1, arg2)**

argument 가 ,

- **min(arg1, arg2)**

argument 가 ,

■ **double pow(double m, double n)**

m^n

■ **double random(double n)**

$0 \sim n$

■ **double sin(double n)**

$n \sin$

■ **double sqrt(double n)**

$n \text{ square root } (, n>0)$

■ **double tan(double n)**

$n \tan$

1 0 .

2 byte

. , strlenb(), substrb() .

■ **string getchar(string src, int n)**

$src \rightarrow n+1$

ex) $\text{getchar("abcdef", 2) } \rightarrow \text{"c"}$

ex) $\text{getchar("가", 2) } \rightarrow \text{" "}$

■ **string setchar(string src, int n, string dst)**

$src \rightarrow n+1 \rightarrow dst$

$dst \rightarrow \text{가} \rightarrow 2 \text{ byte}$

ex) $\text{setchar("abcdef", 2, "1") } \rightarrow \text{"ab1def"}$

ex) $\text{setchar("가", 2, " ") } \rightarrow \text{"가 "}$

■ **boolean strcmp(string src, string dst)**

$src \rightarrow dst \rightarrow \text{true, false}$

■ **boolean strcmp(string src, string dst)**

src dst가 true, false
src dst

■ **int strstr(string str1, string str2)**

str1 str2
ex) strstr("abcdef", "cd") → 2
ex) strstr("가", "") → 2

■ **int strlen(string src)**

src
ex) strlen("abc") → 3
ex) strlen("가") → 3

■ **int strlenb(string src)**

src byte
ex) strlenb("abc") → 3
ex) strlenb("가") → 6

■ **string strtrim(string src)**

src
strtrim(" a b c d ") → "a b c d"

■ **string substr(string src, int start, int len)**

src start+1 len
substr("abc가", 2,3) → "c가"

■ **string substrb(string src, int start, int len)**

src start+1 len
byte
ex) substrb("abc가", 2,3) → "c가"

■ **string strreplace(string src, string mat, string dst)**

src mat dst
ex) strreplace("abcdef", "cd", "가") → "ab가 ef"

■ **string strlower(string src)**

src [A-Z]

ex) strlower("ABC") → "abc"

■ **string strupper(string src)**

src [a-z]

ex) strupper("abc") → "ABC"

■ **string strleft(string src, int len)**

src len

ex) strleft("가 abc",3) → "가 a"

■ **string strright(string src, int len)**

src len

ex) strright("가 abc",4) → " abc"

■ **string strshift(string src, int len)**

len src[len] ,

ex) strshift("abcdefg",3) → "abcd"

ex) strshift("abcdefg",-3) → "defg"

■ **string strdouble(double value, int option)**

double	option	scientific notation
	, option 0	, 1

double 0.0001 "1E-4"

ex) strdouble(0.0001,0) → "1E-4"

ex) strdouble(0.0001,1) → "0.0001"

■ **string formatNumber (double db | int i, string strFormat)**

double, int strFormat

ex) formatNumber(1213, "\$#,###") → \$1,213

■ **string convertCharCode (string src)**

ex) convertCharCode("p l a n") → plan

■ **Date setDate(Date date, string flag, int value)**

flag date value

ex) date가 "2004-06-04" setDate(date, "day", 12) → "2004-06-12"

■ **int getDate(Date date, string flag)**

flag

ex) date가 "2004-06-04" getDate(date, "day") → 4

Flag			
dayofweek	1,	2, ...	value / ,
day	value	/	
month	value	/	
year	value	/	
hour	value	/	
minute	value	/	
second	value	/	

■ **Date parseDate(string DATE_STRING, string format)**

DATE_STRING Date

format DATE_STRING

ex) parseDate("2004-06-04", "yyyy-MM-dd")

■ **string formatDate(Date date, string format)**

date

format

ex) date가 "2004-06-04" formatDate(date, "yyyy/MM/dd") → "2004/06/04"

■ **int dateInterval(Date from, Date to)**

from to
 ex) from "2004-06-04" , to "2004-06-06" dateInterval(from, to) → 2

■ **Date dateAdd(Date date, int day_amount)**

date day_amount
 ex) date "2004-06-04" dateAdd(date, 2) → 2004-06-06

■ **int dateRollAndGet(string flag, int year, int month, int day, int day_amount)**

year month day day_amount
 flag , flag getDate

ex) dateRollAndGet("dayofweek", 2001,12,5,30) → 6()

■ **write(argument, ...)**

(system.out) argument
 argument , <Ctrl+Z>
 가
 ex) int i; write(i);
 float f; write(f);

string

"" "

■ **void setglobal("flag_name", "value")**

가

- ## ■ `string getglobal("flag_name")`

setglobal

setglobal

가

ex) `setglobal(" ", " ")` → `getglobal(" ")=" "`

```
setglobal("abc", "3") → getglobal("abc")="3"
```

- `getdata(string odi_name.dataset_name.field_name, int index)`

Index

가

- `getdata("field_name")`
 - `getdata("odl_name.dataset_name.field_name")`
 - `getdata("OZFormParam.param_name")`
 - `getdata("odl_name.OZParam.param_name")`
 - `getdata("OZSystem.sys_field_name")`

, ODI

Page_of_Total, Total_Page

double, int, string

(1) 가 getdata "#" 가
 , Car.odi Order Region 가
 가 .

```
string FieldValue;  
FieldValue = qetdata("Car.Order.Region");
```

```
- #  
  string FieldValue;  
  FieldValue = #Car.Order.Region#;
```

(2) 'odi_name' 'dataset_name'

- `double dbsum("odi_name.dataset_name.field_name")`

- double dbavg("odi_name.dataset_name.field_name")

■ `double dbmax("odi_name.dataset_name.field_name")`

■ `double dbmin("odi_name.dataset_name.field_name")`

■ `int dbfreq("odi_name.dataset_name.field_name", "value")`

"value" ()

```
■ int totalRowCount("odi_name dataset_name")
```

가 `totalRowCount()`

가

■ `int currentRowIndex("odi name.dataset name")`

가 . currentRowIndex()

가

■ **setFieldData(<data>)**

가

<data> string, int, double, boolean, date 가 가 ,

ex) setFieldData(3.25); → [] 'DOUBLE'
<data>가 double " " " 'DOUBLE'

SQL

SQL

" " "true" 가 ,
global

■ **setQueryString("SQL String")**

SQL

#table.field# getdata(...) SQL

SQL

가

SQL

DB

SQL

ex) string s;

s = "select * from car where Maker = ' "';

setQueryString(s)

ex) string s;

s = "select * from car where Maker = " + " " + #OZParam.Maker + " ";

setQueryString(s)

- **setattr("attr", "value")**
"attr" "value"
 - **getattr("attr")**
"attr"
 - **setcompatattr("name", "attr", "value")**
"name" () (attr)
"value"
 - **getcompatattr("name", "attr")**
"name" () (attr)
 - **setuserattr("attr", "value")**
(attr) "value"
 - **getuserattr("attr")**
(attr)
 - **setusercompatattr("name", "attr", "value")**
"name" (attr) "value"
 - **getusercompatattr("name", "attr")**
"name" (attr)

■ / / / / /

Color							
bgcolor / fillcolor		Hexa	Decimal	RGB	RGB	hex	Decimal
fgcolor / fontcolor						(ddd)	
framecolor	/	ex) #hhhhhh		setattr, setcompatattr		}	
bordercolor		ex) \$ddd,ddd,ddd					
Geometry							
topline		(:DOUBLE)	0				
bottomline							
leftline							
rightline							
leftpose		(:DOUBLE)				(:)	
toppose							
height		(:DOUBLE)					
width							
TOPMARGIN		(:DOUBLE)					
BOTTOMMARGIN							
LEFTMARGIN							
RIGHTMARGIN							
halign	Center / Left / Right / distributed						
valign	Center / Top / Bottom / distributed						
Component Type							
drawtype	Label / Image / Barcode / User /PDF417						
paintallow	Label / Image / Barcode / User /PDF417						
		ex) Label, Image					

Font & Display		
streich / textdirection	Vertical / Horizontal / Vertical_2BYTE / Clockwise CounterClockwise / Horizontal_2BYTE	
wiritedirection	LeftToRight_TopToBottom / LeftToRight_BottomToTop / RightToLeft_TopToBottom / RightToLeft_BottomToTop	
autofontsize	true / false / largeronly / smalleronly	
autosize	true / false	
wordwrap	true / false	
wordwraptyle	default / ignorespace	
caption		
clip	true / false	(가)
effect	Basic / Shadow / Engrave / Outline / Hollow / Segments / Dimension	
spacing	(:DOUBLE)	, 0,
transparent /nofill	true / false	
Transparency	(:INT)	, 255, 0~255
wrapspace	(:DOUBLE)	, 0,
crlftolf	true / false	ASCII 13 10 ASCII 10
&symbol / is&indata	true / false	&
fontname		
fontsize		
fontstyle	Plain / Bold / Italic / Bold&Italic	
fontstyleex	None / UnderLine / StrikeOut / DoubleStrikeOut	
shrink	true / false	
noborder	true / false	
FrameDrawingMode	Inside / Center/ Outside	
visible	true / false	

printable	true / false	
format		
Export		
Export_All	true / false	<p>Export_All true false</p> <p>ex) setattr("Export_All","true"); setattr("Export_txt","false");</p>
Export_Nothing	true / false	<p>Export_Nothing true true</p> <p>ex) setattr("Export_Nothing","true"); setattr("Export_txt","true");</p>
Export_pdf	true / false	pdf
Export_xls	true / false	xls
Export_doc	true / false	doc
Export_ppt	true / false	ppt
Export_html	true / false	html
Export_csv	true / false	csv
Export_txt	true / false	txt
Export_jpg	true / false	jpg
Export_tif	true / false	tif
Export_svg	true / false	svg
Export_hml	true / false	hml
Customizable On Viewer		
movable	true / false	가

editable	true / false	/ 가
changeable	true / false	가
Auto Shift		
downrelated	ex) 1, 2,...	
rightrelated	ex) 1, 2,...	



fieldname		



expression		

: caption 가 .



imagestyle	Normal / Center / Fit / Tile / FitByWidth / FitByHeight / Isotropic / TopCenter / TopRight / MiddleLeft / MiddleRight / BottomLeft / BottomCenter / BottomRight	

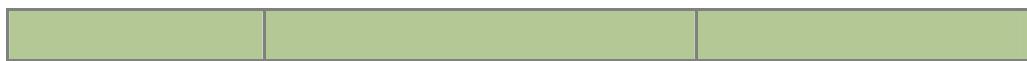
: caption URL 가 .



BarCode_dataposition	None / Top / Bottom	
BarCode_titleposition	None / Top / Bottom	

BarCode_datagap	(:DOUBLE)	
BarCode_titlegap	(:DOUBLE)	
BarCode_type	CODABAR / CODABAR_MOD16 / CODE11 / CODE11_MOD11 / CODE11_MOD11_MOD11 / CODE39 / CODE39_MOD43" / CODE39EXTENDED / CODE39EXTENDED_MOD43 / CODE93 / CODE93_MOD47 / CODE93FULL / CODE93FULL_MOD47 / EAN8 / EAN8PLUS2 / EAN8PLUS5 / EAN13 / EAN13PLUS2 / EAN13PLUS5 / STANDARD2OF5 / STANDARD2OF5_MOD10 / INDUSTRIAL2OF5 / INDUSTRIAL2OF5_MOD10 / INTERLEAVED2OF5 / INTERLEAVED2OF5_MOD10 / MSI / MSI_MOD10 / MSI_MOD11 / MSI_MOD10_MOD10 / MSI_MOD10_MOD11 / OPC / OPC_MOD10 / POSTNET / UPCA / UPCAPLUS2 / UPCAPLUS5 / UPCE / UPCEPLUS2 / UPCEPLUS5 / CODE128A / CODE128A_MOD103 / CODE128B / CODE128B_MOD103 / CODE128C / CODE128C_MOD103 / CODE128AUTO / CODE128AUTO_MOD103	
BarCode_halignment		
BarCode_scale	1 / 2 / ... / 9 / 10	
BarCode_aprintscale	(:INT)	
BarCode_ratio	2 / 3	
BarCode_margins	(:DOUBLE)	
BarCode_rotation	0 / 90 / 270	

■ PDF417



PDF417_ROWNUM	(:INT)	
PDF417_COLNUM	(:INT)	
PDF417_ECC	(:INT)	
PDF417_XSCALE	(:INT)	X
PDF417_YSCALE	(:INT)	Y



CrossTab_fittorightmargin	None / LastHorzPage / AllPage	



<i>Common</i>		
AreaFigureColor	Hexa Decimal RGB ex) #hhhhhh ex) \$ddd,ddd,ddd	RGB hex Decimal (ddd)
Chart_style		
<i>X Axis - Common</i>		
Chart_max_#ofitem		X
Chart_period_x		X
Chart_sub_period_x	(:INT)	X 1 1 1
Chart_tooltip_caption		() 가

Chart_tooltip_colpivot		가 (.) (value1, value2,.....) () 가 getattr 가
Chart_tooltip_contents	(:DOUBLE)	가 Y () 가 getattr 가
Chart_tooltip_rowpivot		가 X (.) (XValue, XValue2,.....) () 가 getattr 가
Chart_tooltip_text		가 Y
Chart_tooltip_value	(:DOUBLE)	가 Y Chart_tooltip_contents Chart_tooltip_value Y
XAxisBottomTitle		X
XAxisRightTitle		X
X Axis - Date Type		
Chart_baseline_x	Min / Max /	X - MIN : X - MAX : X - (ex.2007- 12-01)

Chart_max_x	Auto / (:DOUBLE)	X Auto :
Chart_min_x	Auto / (:DOUBLE)	X Auto :
Chart_origin_x	Min / Max /	X X X - MIN : X - MAX : X - ex) 2007-12-01
Chart_roundoff_x Chart_roundup_x	year_january / year_april / halfyear_january / halfyear_april / quarter / month / week / day / hour / minute / second	X X
Chart_unitofticks_x	year / 2year / halfyear / quarter / 2month / month / 2week / week / 2day / day / hour / 10minute / minute / 10second / second	X
X Axis - Number Type		
Chart_#ofticks_auto_x	true / false	X
Chart_#ofticks_x	(:INT)	X 가
Chart_baseline_x	Min / Max / (:INT)	X - MIN : X - MAX : X -
Chart_max_auto_x	true / false	X
Chart_max_x	Auto / (:DOUBLE)	Auto :
Chart_min_auto_x	true / false	X

Chart_min_x	Auto / (:DOUBLE)	X Auto :
Chart_origin_x	Min / Max / (:DOUBLE)	X X X - MIN : X - MAX : X -
Chart_roundoff_x	(:INT)	X X
Chart_roundup_x	(:INT)	X
Chart_unitofticks_x	true / false	X
Y Axis		
Chart_#ofticks_auto_y1	true / false	Y
Chart_#ofticks_auto_y2		
Chart_#ofticks_y1	(:INT)	Y (가)
Chart_#ofticks_y2		
Chart_baseline_y1	Min / Max / (:INT)	Y - MIN : Y - MAX : Y -
Chart_baseline_y2		
Chart_max_auto_y1	true / false	Y
Chart_max_auto_y2		
Chart_max_y1	Auto / (:DOUBLE)	Y Auto :
Chart_max_y2		
Chart_min_auto_y1	true / false	Y
Chart_min_auto_y2		
Chart_min_y1	Auto / (:DOUBLE)	Y Auto :
Chart_min_y2		
Chart_origin_y1	Min / Max / (:DOUBLE)	Y X Y - MIN : Y - MAX : Y -
Chart_origin_y2		

Chart_period_y		Y
Chart_roundoff_y1		Y
Chart_roundoff_y2	(:INT)	Y
Chart_roundup_y1		Y
Chart_roundup_y2		
Chart_sub_period_y	(:INT)	Y 1 1 1
Chart_unitofticks_y1	(:INT)	Y
Chart_unitofticks_y2		
YAxisLeftReverse	true / false	Y
YaxisLeftTitle		Y
YaxisLeftTopTitle		Y
YAxisRightReverse	true / false	Y
YaxisRightTitle		Y
YaxisRightTopTitle		Y
Z Axis		
Chart_period_z		Z
Chart_sub_period_z	(:INT)	Z 1 1 1

		VLine_NoPoint
		VLine_Accumulative_NoPoint
	100%	VLine_Percent_NoPoint
		VLine

		VLine_Accumulative
	100%	VLine_Percent
		VLine_3D
		VLine_Rotational_3D
		VLine_3D_Zwise
		VLine_Rotational_3D_Zwise
가		
		HLine_NoPoint
		HLine_Accumulative_NoPoint
	100%	HLine_Percent_NoPoint
		HLine
		HLine_Accumulative
	100%	HLine_Percent
		VBar
		VBar_Accumulative
	100%	VBar_Percent
		VBar_3D_Bundle

		VBar_3D_Accumulative	
	100%	VBar_3D_Percent	
		VBar_3D	
		VBar_Rotational_3D	
		VBar_3D_Zwise	
		VBar_Rotational_3D_Zwise	
가			
	가	HBar_Bundle	
	가	HBar_Accumulative	
	100%	가	HBar_Percent
		HBar_3D_Bundle	
		HBar_3D_Accumulative	
	100%	가	HBar_3D_Percent
		VCylinder	
		VCylinder_Accumulative	
	100%	VCylinder_Percent	
		VCylinder_3D_Bundle	

		VCylinder_3D_Accumulative	
	100%	VCylinder_3D_Percent	
		VCylinder_3D	
		VCylinder_3D_Zwise	
가			
	가	HCylinder	
	가	HCylinder_Accumulative	
	100%	가	HCylinder_Percent
		가	HCylinder_3D_Bundle
		가	HCylinder_3D_Accumulative
	100%	가	HCylinder_3D_Percent
		VCone_3D_Bundle	
		VCone_3D_Accumulative	
	100%	VCone_3D_Percent	
		HCone_3D_Bundle	
		HCone_3D_Accumulative	
	100%	가	HCone_3D_Percent

		VCone_3D	
		VCone_3D_Zwise	
		VPyramid_3D_Bundle	
		VPyramid_3D_Accumulative	
	100%	VPyramid_3D_Percent	
	가	HPyramid_3D_Bundle	
	가	HPyramid_3D_Accumulative	
	100%	가	HPyramid_3D_Percent
		VPyramid_3D	
		VPyramid_3D_Zwise	
		VArea	
		VArea_Accumulative	
	100%	VArea_Percent	
		VArea_3D	
		VArea_3D_Accumulative	
	100%	VArea_3D_Percent	

		VArea_Rotational_3D
		VArea_3D_Zwise
		VArea_Rotational_3D_Zwise
가		
		HArea
		HArea_Accumulative
	100%	HArea_Percent
		HArea_3D_Accumulative
	100%	HArea_3D_Percent
		VPoint
		HPoint
		Pie
		Pie_Split
		Pie_3D
		Pie_Split_3D
		Gauge

		Radiant_NoPoint
		Radiant_Accumulative_NoPoint
		Radiant_Percent_NoPoint
		Radiant
		Radiant_Accumulative
		Radiant_Percent
		VStep
		HStep
		VCustom
		VCustom_Accumulative
	100%	VCustom_Percent
		HCustom
		HCustom_Accumulative
	100%	HCustom_Percent



setattr

가

.

Gantt_startdate	Auto / Parameter	<ul style="list-style-type: none"> - AUTO : - Parameter : gt_fromDate
Gantt_enddate	Auto / Parameter	<ul style="list-style-type: none"> - AUTO : - Parameter : gt_toDate
Gantt_taskbartye	Separated / United	<ul style="list-style-type: none"> - Separated : 가 - United : 가
Gantt_timescale	Year / Quarter / Month / Week / Day	<ul style="list-style-type: none"> Year Quarter Month Week Day
Gantt_weektype	Sun-Mon / Mon-Sun	



autosize	true / false	<ul style="list-style-type: none"> : Page Header/Footer, Tail Band
enable	true / false	<ul style="list-style-type: none"> : "false" 가
visible	true / false	<ul style="list-style-type: none"> : "false"
height	(:INT)	<ul style="list-style-type: none"> : Page Footer, Tail, Side Band height

width	(:INT)	: width Expander
forcenewpage	true / false	
datasetname		
emptydataband	true / false	: getattr, getcompatattr, getuserattr, getusercompatattr 가
pageendstop	true / false	가 가 : 가
repeatnum	(:INT)	: 가



ROUND	(:FLOAT)	
LINETYPE	Horizontal / Vertical / Slash / Backslash	
THICKNESS	(:FLOAT)	
DASH	(:FLOAT)	(GAP)
GAP	(:FLOAT)	(DASH)
ARROWARROWSIZE	(:FLOAT)	
ARROWTYPE	1 / 2 / 3 / 4 / 5 / 6	1 : , 2 : 3 : , 4 : 5 : , 6 :
ARROWDIRECT	1 / 2 / 3	1 : , 2 : 3 :



Protocol	POST / GET	
URL		(ASP, JSP) URL
Checked	true / false	
SelectedIdx	(:INT)	
GroupName		

■ **string getColPivot(int depth)**

depth pivot , 가 가 0 1 가 .

■ **string getRowPivot(int depth)**

depth pivot , 가 가 0 1 가 .

■ **double getSummary("SUM"|"AVG"|"MIN"|"MAX", string rowpivot0, string rowpivot1,...,string colpivot0,string colpivot2,...)**

(sum, avg, min, max)

sum non, cnt

0

CTValueShape 가 ,

가

ex) 2 , 2

string rp0, rp1, co0, cp1;

rp0=getRowPivot(0)

```

rp1=getRowPivot(1)
cp0=getColPivot(0)
cp1=getColPivot(1)
getSummary("SUM", rp0, rp1, cp0, cp1); → , sum
getSummary("AVG", rp0, rp1); → AVG
getSummary("MAX", "", "", cp0, cp1); → MAX (empty string
                                         MAX )
getSummary("MIN"); → value MIN

```

ex)

Sample		현대			대우			합계
		소나타	그랜저	합계	누비라	레간자	합계	
전라	전주	9 2	10 3	24,0	6 5 3		14,0	38,0
	광주		2 4	6,0	4 6 7	6	23,0	29,0
	합계	11,0	19,0	30,0	24,0	13,0	37,0	67,0
충청	대전	3 4	4 3	14,0	1 8		9,0	23,0
	충주		8 9 8	34,0	7 0	9 7	23,0	57,0
	합계	16,0	32,0	48,0	16,0	16,0	32,0	80,0
합계		27,0	51,0	78,0	40,0	29,0	69,0	147,0

```

getSummary("SUM", " ", " ", " ", " ") → 11.0
getSummary("SUM", " ", " ") → 38.0
getSummary("SUM", " ", " ") → 67.0 ( " " " ")
                                         " " sum )
getSummary("SUM", "", "", " ", " ") → 51.0
getSummary("SUM") → 147.0

```

- **void Pivot(int fromAxis, int fromDepth,int toAxis, int toDepth)**
- **void Pivot(String fromAxis, int fromDepth, String toAxis, int toDepth)**

Axis : (/), 0 , 1
Depth : , 0

- **void removePivot(int Axis, int Depth)**
- **void removePivot(String Axis, Int Depth)**

Axis : (/), 0 , 1
Depth : , 0

- **boolean isSpaceRemained(double height)**

height
'true', 'false'
height
height
가
isSpaceRemained(0) 가 false 가 가

- **double getsystem("empty_space")**

가
가
Pixel

- **void msgBox("title", "msg")**

title :
msg :

- **encodeURI("value")**

URI
) encodeURI("!@#\$%^&*")

: encodeURI 가

URI

setLinkServer, setLinkServlet, setLinkURL 가
가 .
가 setLinkParam, setLinkOption

- `setLinkServer("host_name/host_IP", port_num, "report_file_name")`
 - `setLinkServlet("servlet_url", "report_file_name")`

port_num

```
" ( )" report_file_name  
host_name/host_IP "", port_num 0  
servlet_url ""
```

- `setLinkParam("OZFormParam_name", "value")`

가 ,
setLinkParam() , ODI setLinkOption()

- `setLinkOption("option_tag", "value")`

ODI

ex) ODI

```
setLinkOption("odi.odinames", "sample1");
setLinkOption("odi.sample1.pcount", "2");
setLinkOption("odi.sample1.args1", "FromDate=2004-01-01");
```

```
setLinkOption("odi.sample1.args2", "ToDate=2004-01-31");
```

가

option_tag	value	
refreshperiod	hh:mm:ss	: :
refreshcache	true / false	(: false)
compressedForm	true / false	
odi.odi_name.usescheduled data		가
displayname		
openfile		PC
presavedata	true / false	(: false)
usesecurity	true / false	(: false)
largebundle	true / false	(: false)

■ **setLinkURL("url", "target")**

target URL

url : URL , ex) http://www.forcs.com

target :

target	Stand-Alone	
_self	URL	가 URL
_parent	URL	가 URL
	_self	_self

			가	
		URL		URL
_top	가	_self	가	_self
		URL		
_blank			URL	
			URL	

- `SetLinkPostURL("url", "target", "postparam")`

target URL POST

가 StandAlone "target" "_blank"

가

url : URL , ex) http://www.forcs.com

target :

postparam : post

■ `setLinkToc("tocName")`

Tree

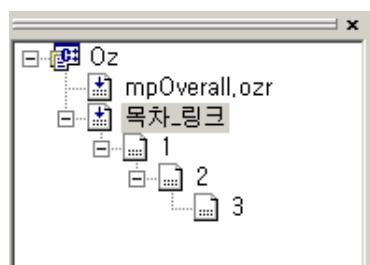
가

tocName :

가 "/"

ex)

Tree



"3"

```
setLinkToc("      _      /1/2/3");
```

■ `setLinkRepository("url", "mode")`

setLinkRepository
 URL :) ozp://test.xls, ozp://category/test.xls
 mode :

mode	
run	
save	
choice	/ /

) test.xls
 setLinkRepository("ozp://test.xls", "run")

■ **setLinkExecute("cmd", "parameter")**

cmd :
 parameter :
) test.txt
 setLinkExecute("notepad.exe", "c://test.txt")

■ **setBrowserOption("option_tag", "value")**

가
 . . .
 가

option_tag	value
ShowToolbar	true / false (: true)
ShowStatusBar	true / false (: true)
ShowMenuBar	true / false (: true)
ShowAddressBar	true / false (: true)
Left	"<INT>"
Top	"<INT>"
Width	"<INT>"

Height	"<INT>"	
--------	---------	--

: setBrowserOption
 "setLinkURL" 가
 .
)
 setLinkPostURL("www.forcs.com", "_blank");
 setBrowserOption("ShowToolbar", "false");

■ **setReportOption("option_tag", "value")**

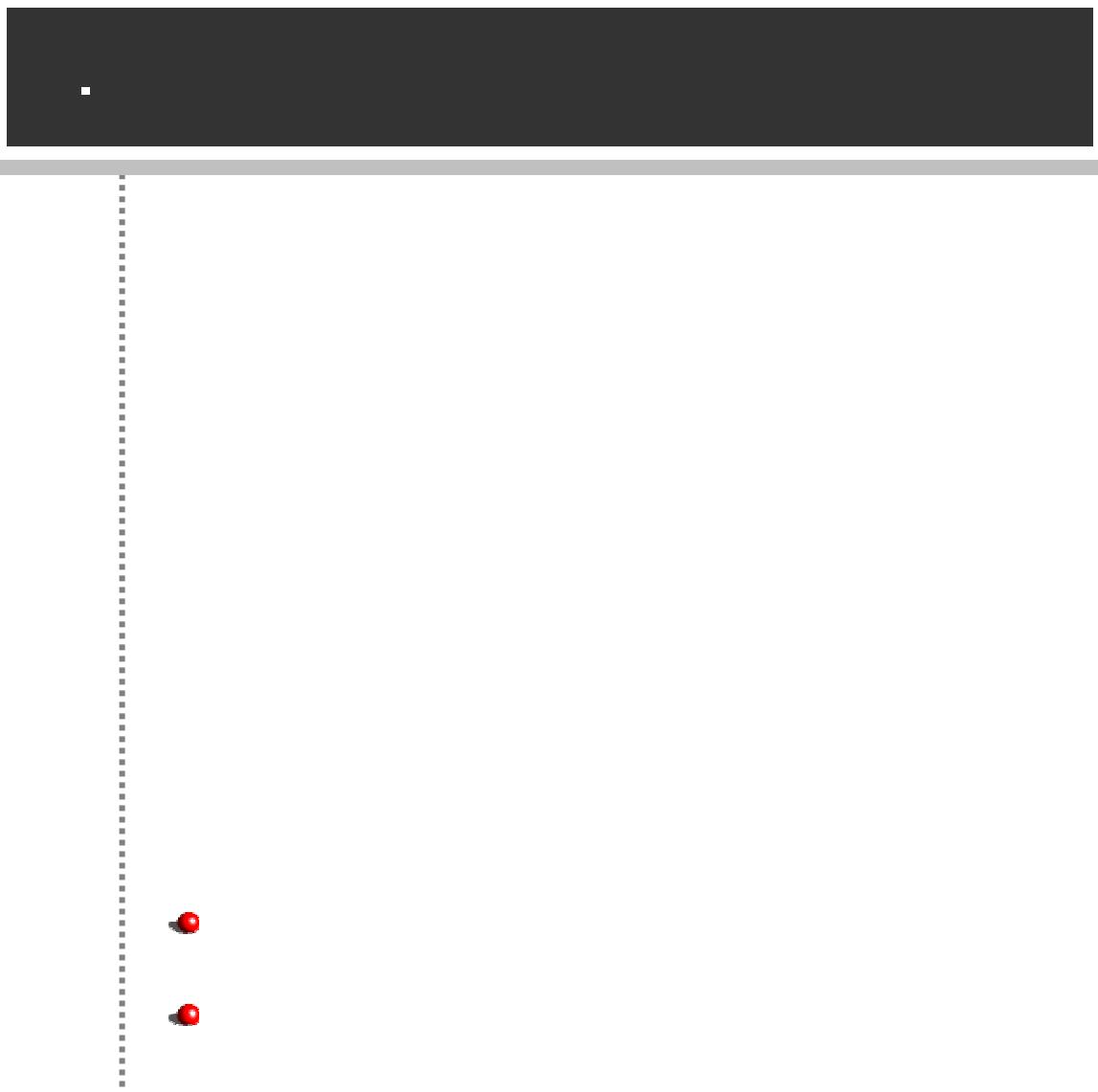
가
 HTML
 가
 ex) setReportOption("connection.pcount", "3")

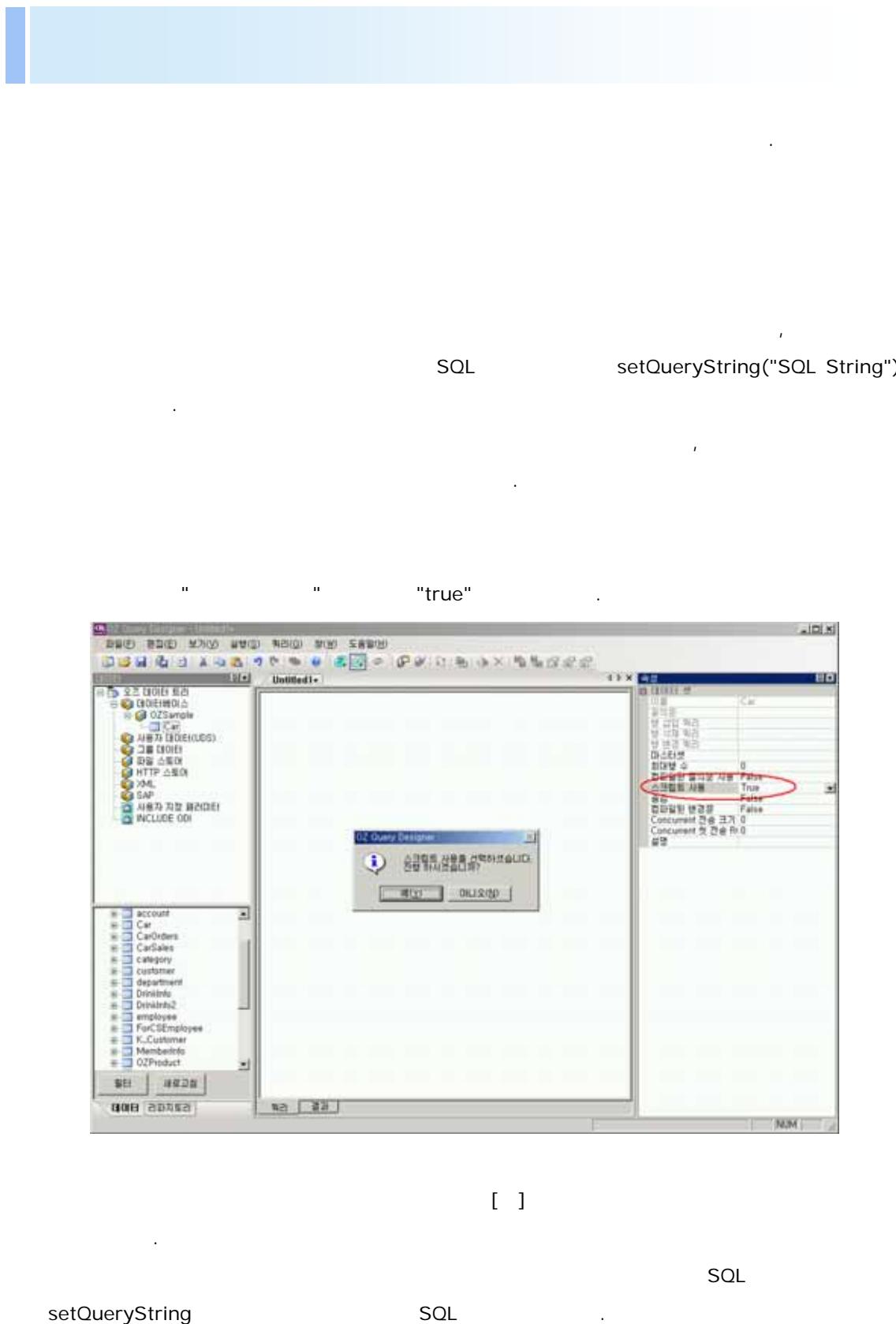
setReportOption() 가 .	
connection	args#, clientdmtype, compresseddatamodule, displayname, fetchtype, pageque, pcount, refreshcache, refreshperiod, serverdmtype, usescheduleddata
csv	exceptfirstpage, filename, pagetitle, pageline, pagestyle, path, removerange, savetointeger, separator
export	applyformat, confirmsave, filename, format, lockcontrols, mode, onlydata, path
excel	arrangestyle, exceptfirstpage, filename, matchmode, matchsubmode, numberformat, path, removeblank, removeoption, removerange, savetointeger
hdm	indent, separator
html	filename, horizontal, imagepath, offsetx, offsety, path, savebypage, vertical
information	debug, turnoffdynamic
jpg	filename, path
memo	bordercolor, bottomline, caption, clip, effect, halign,

	fillcolor, fontcolor, fontname, fontsize, fontstyle, leftline, rightline, spacing, stretch, topline, valign, wordwrap, wrapspace
odi	odinames, odiname.args#, odiname.clientdmtype, diname.fetchtype, odiname.pcount, odiname.serverdmtype
ozd	filename, memoallowed, path, password, saveall
pdf	author, creator, filename, keyword, masterpassword, path, printable, saverange, title, userpassword, subject
ppt	filename, path
print	adjust, alldocument, close, collate, copies, ignoreerror, lockopt, mode, once, pageorder, pageorient, pagerange, pages, pagesinone, printbypage, printername, size, spoolpages, style, usedefaultpaper, usedialogopt
svg	filename, path
text	exceptfirstpage, filename, pagetitle, pageline, pagestyle, path, removerange, separator, savetointeger
tiff	encode, filename, path
toolbar	position, iconwidth, iconheight, iconposition, bgcolor, useseparator, all, file, open, print, save, option, showtree, refresh, addmemo, inputparameter, find, savednm pageselection, pagenavigator, top, up, bottom, down, leftmost, left, rightmost, right, zoom, zoomout, zoomin, zoomtype, zoomreset, about, close
viewer	addmarginleft, addmargintop, bgcolor, bgimage, editmodecolor, frameheight, framewidth, framex, framey, marginleft, margintop, progresscommand, showtree, smartframesize, useeditmode, useinborder, useoutborder, usestatusbar, zoom
word	filename, path

USL

- `getUSLServerParam("name")`
 - USL
 -
 - `) getUSLServerParam("OZUSL_SERVER_URL")`





ODI MakerCode(:INTEGER) 가

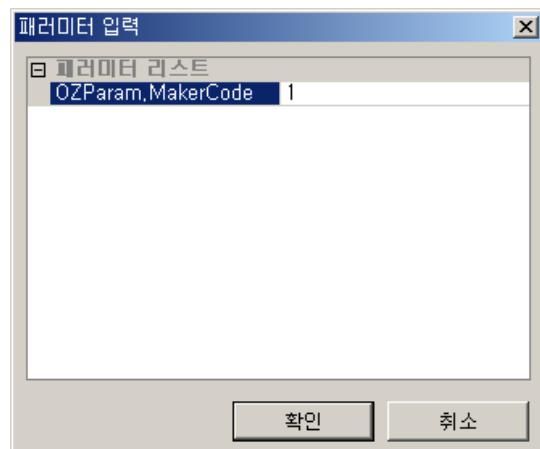
```

"           "           "
string s;
s = "select * from car";
if(#OZParam.MakerCode# == 1) {
    s = s + " where Maker = ' '";
} else if(#OZParam.MakerCode# == 2) {
    s = s + " where Maker = ' '";
} else {
    s = s + " where Maker = ' '";
}
setQueryString(s);

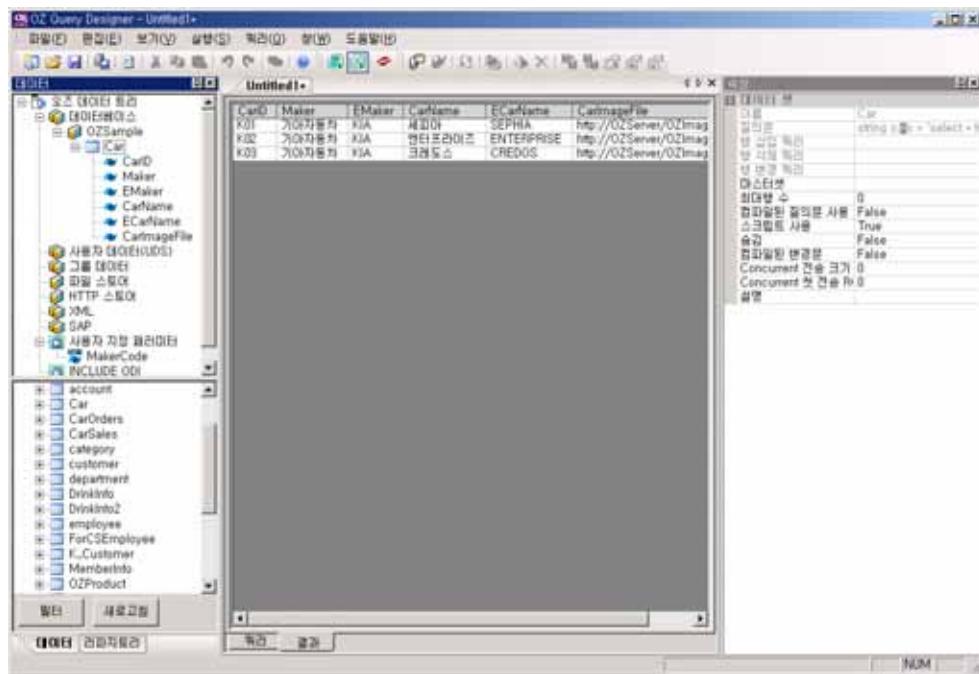
```



ODI



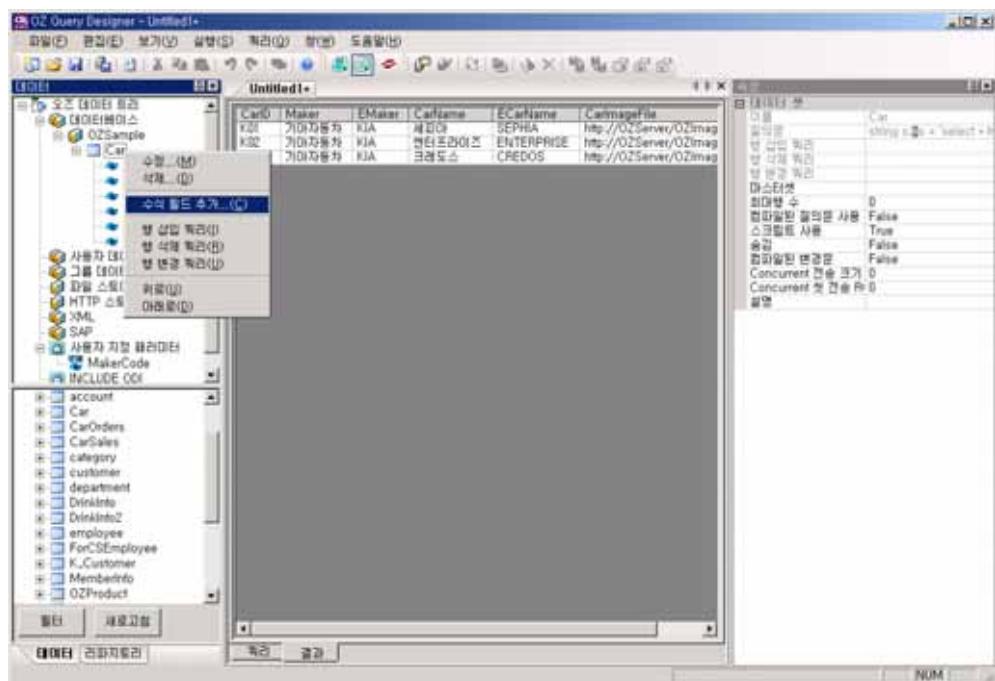
[]



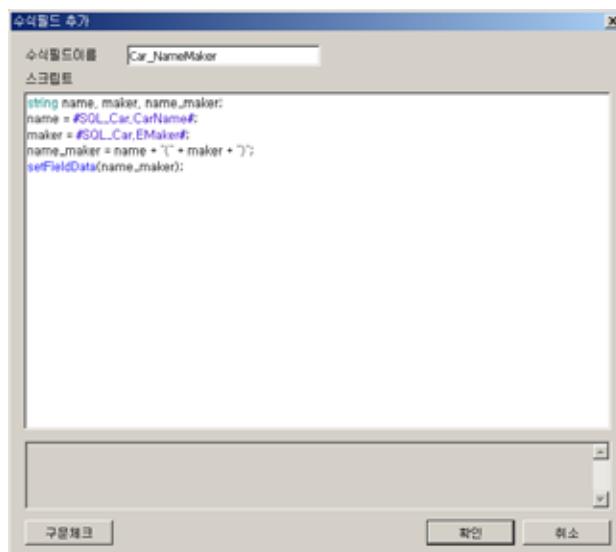
```

    가           가
setFieldData(<data>)
    가
[      가]

```

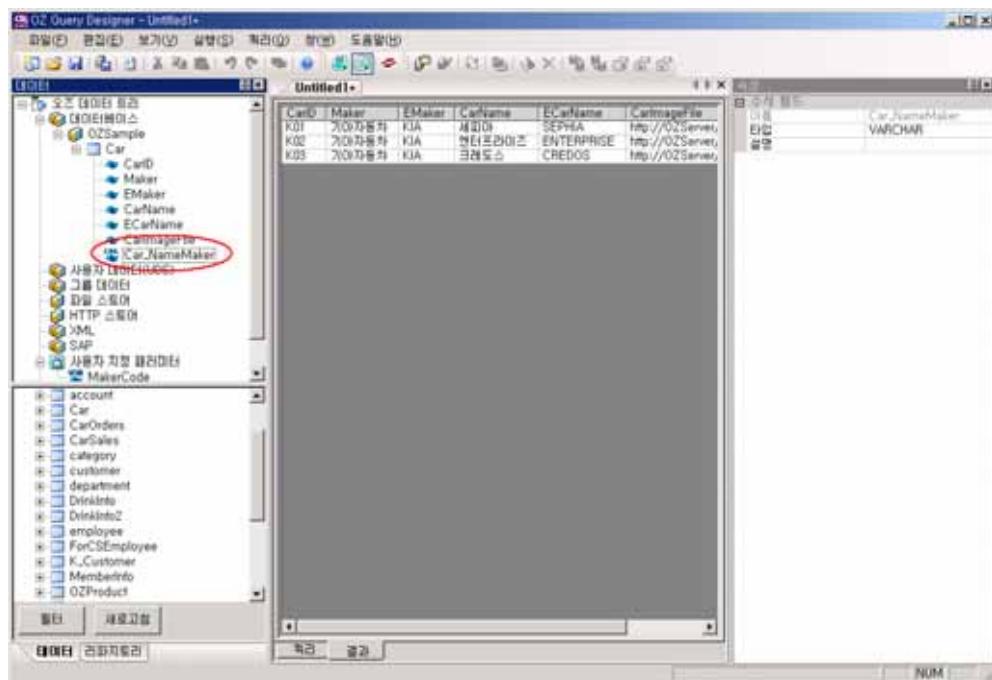


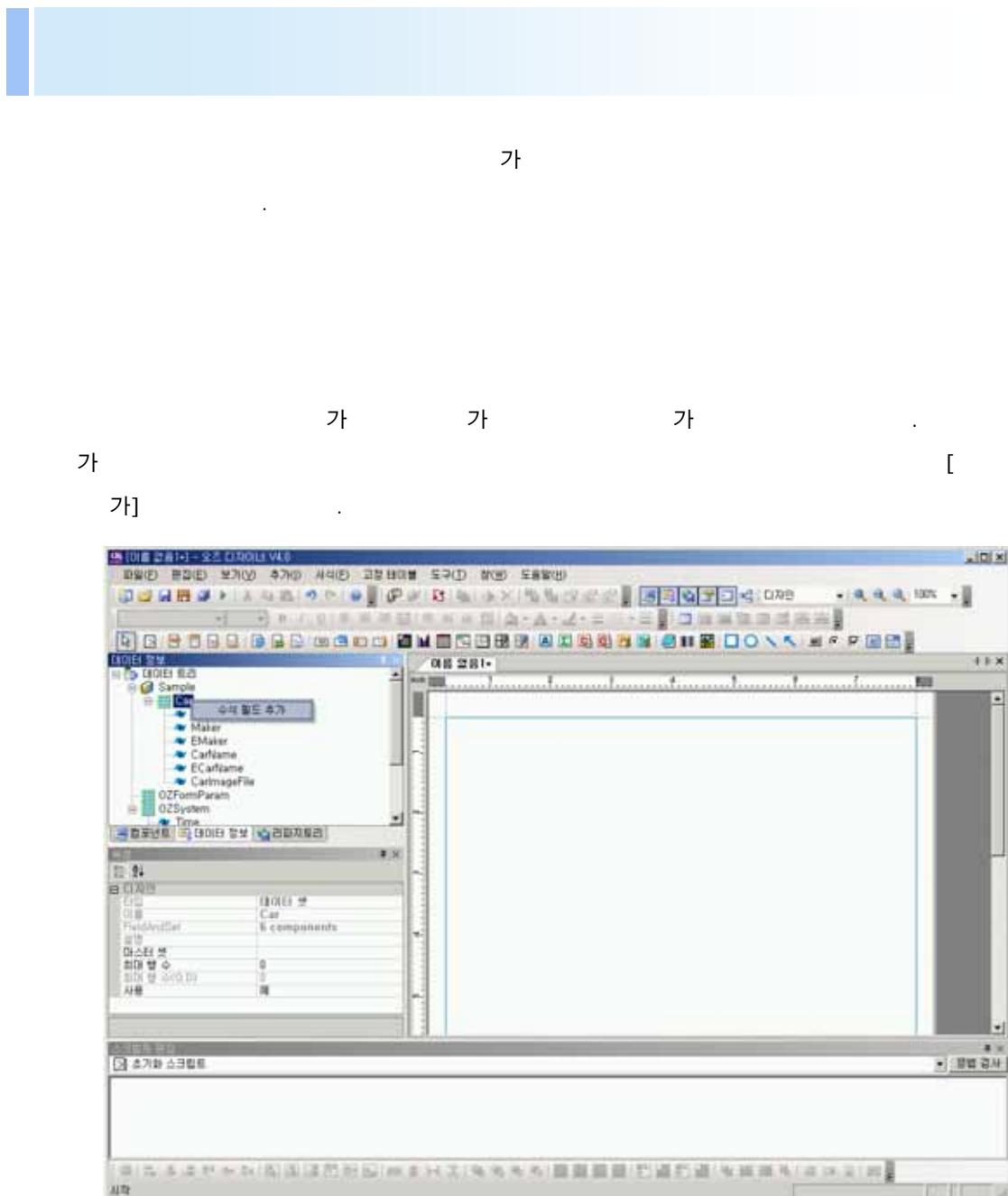
가



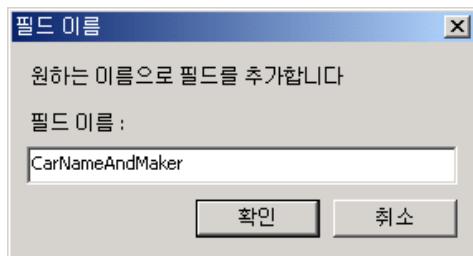
```
string name, maker, name_maker;
name = #SQL_Car.CarName#;
maker = #SQL_Car.EMaker#;
name_maker = name + "(" + maker + ")";
setFieldData(name_maker);
```

[] 가 가 .



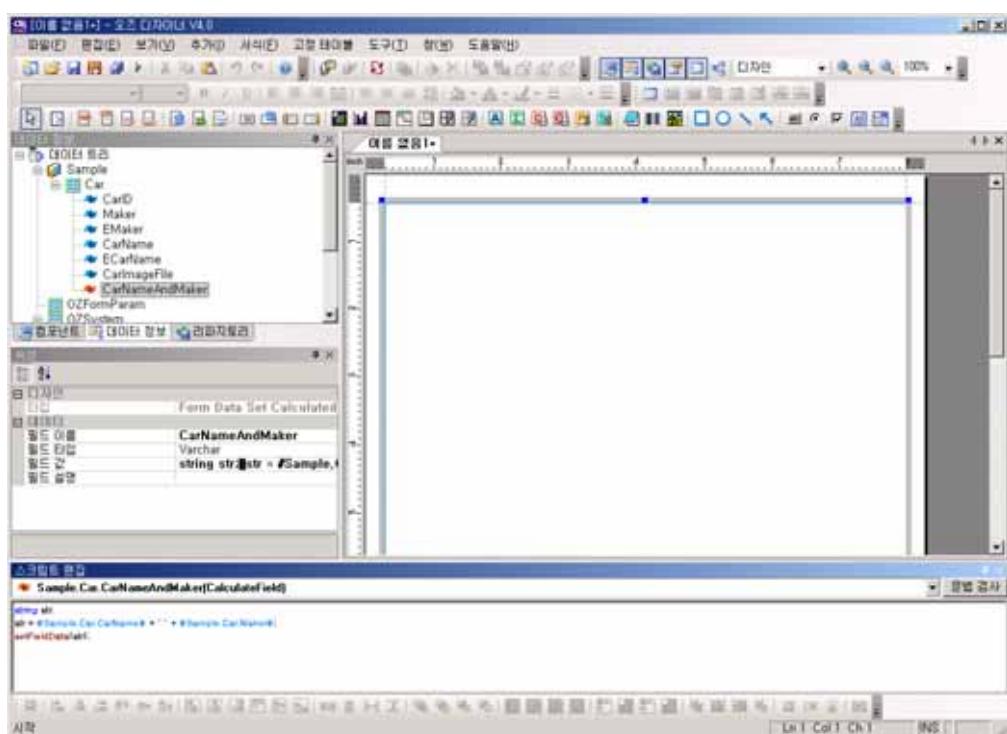


가 []



가

[]

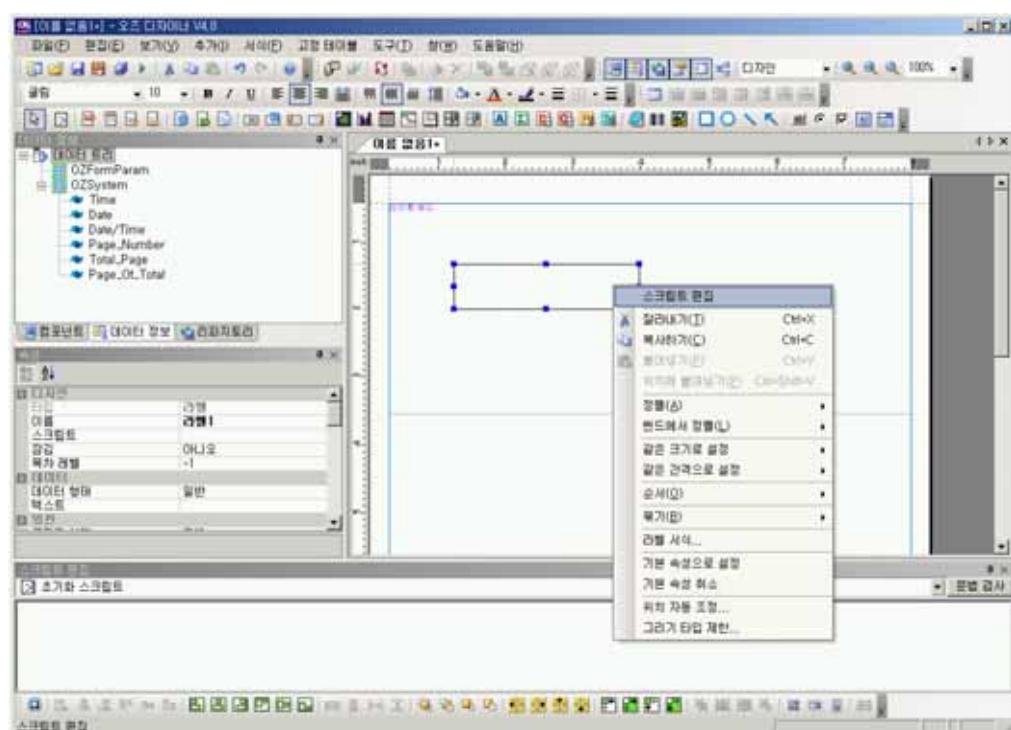


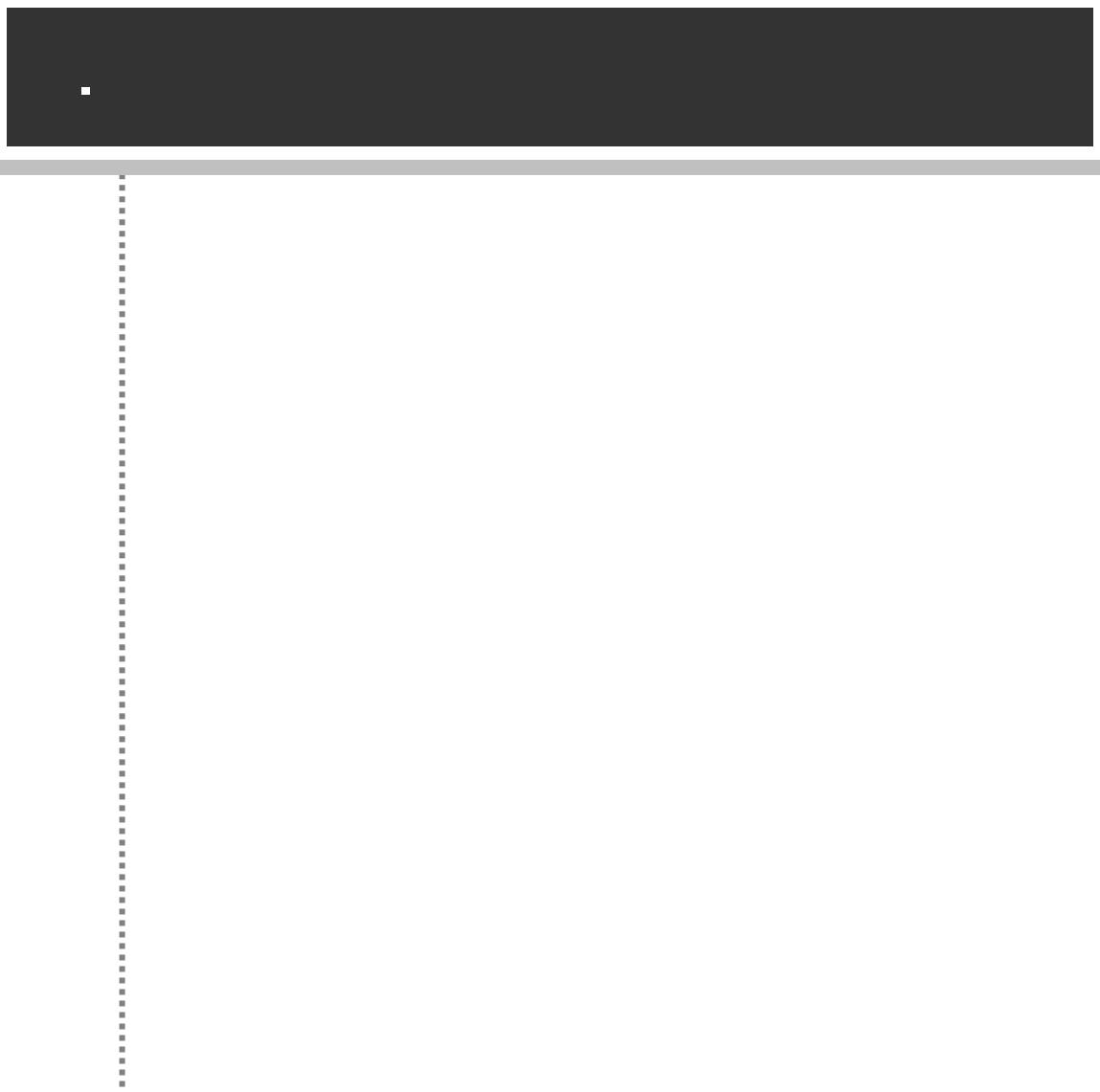
```
string str;
str = #Sample.Car.CarName# + " " + #Sample.Car.Maker#;
setFieldData(str);
```

[]

가

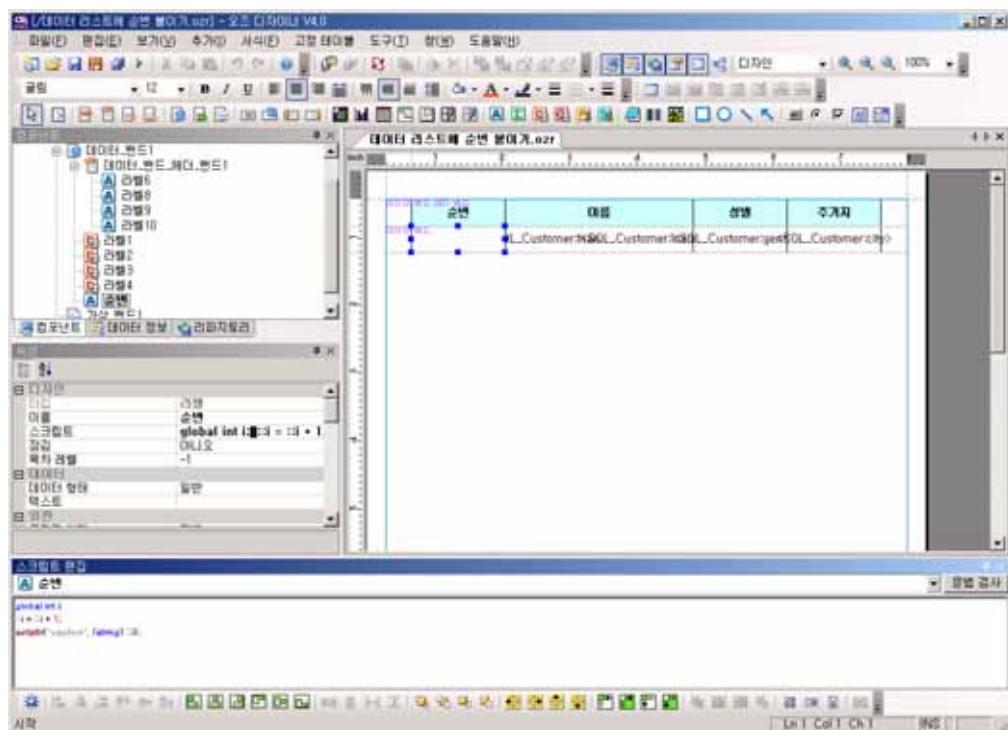
가
[
]





가 SQL 가

가



```
global int i;
::i = ::i + 1;
setattr("caption", (string) ::i);
```



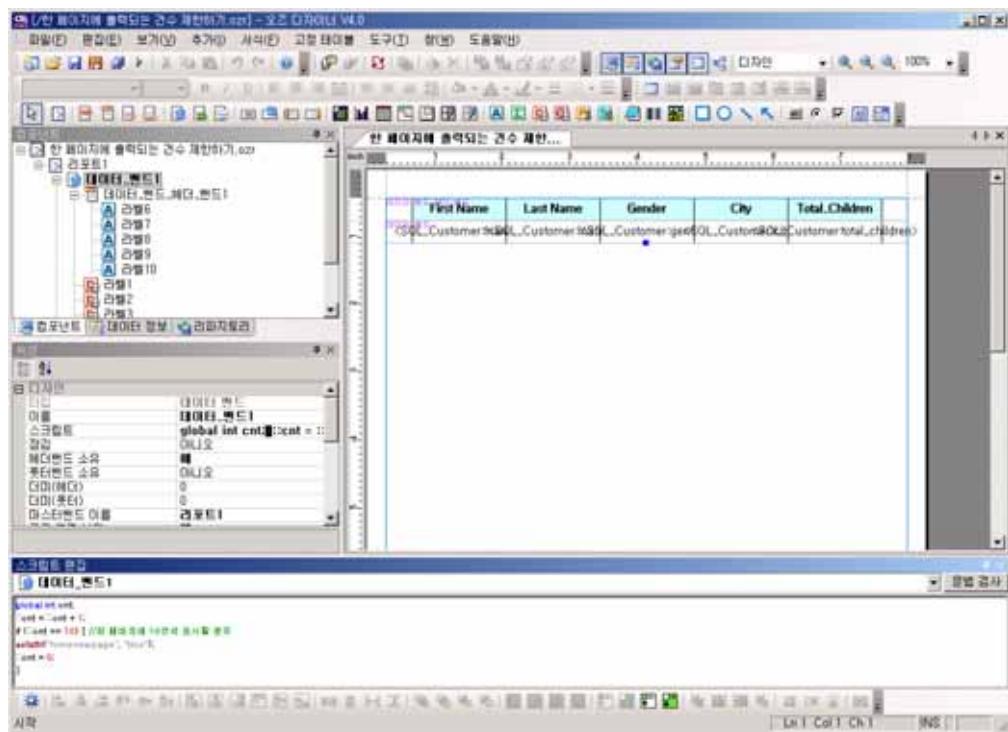
02.04

파일(으) 보기 도움말(으)

1 Zach Lovell M San Andres
 2 Mary Borden M Santa Monica
 3 Louis Gomez F Yakima
 4 Gordon Kirschner F Arcadia
 5 Lana Blau M Novato
 6 Patricia Goldberg M Woodburn
 7 Paula Duran M Richmond
 8 Angela Bowers M Acapulco
 9 Sylvester Valdez M National City
 10 Steve Berger F Bellingham
 11 Rachel Minarick F Woodburn
 12 Christine Sandy Kurtz M Vancouver
 13 Darwin Malaby M W. Linn
 14 Ralph Mccoy F Camacho
 15 John Baker F Los Angeles

가

가

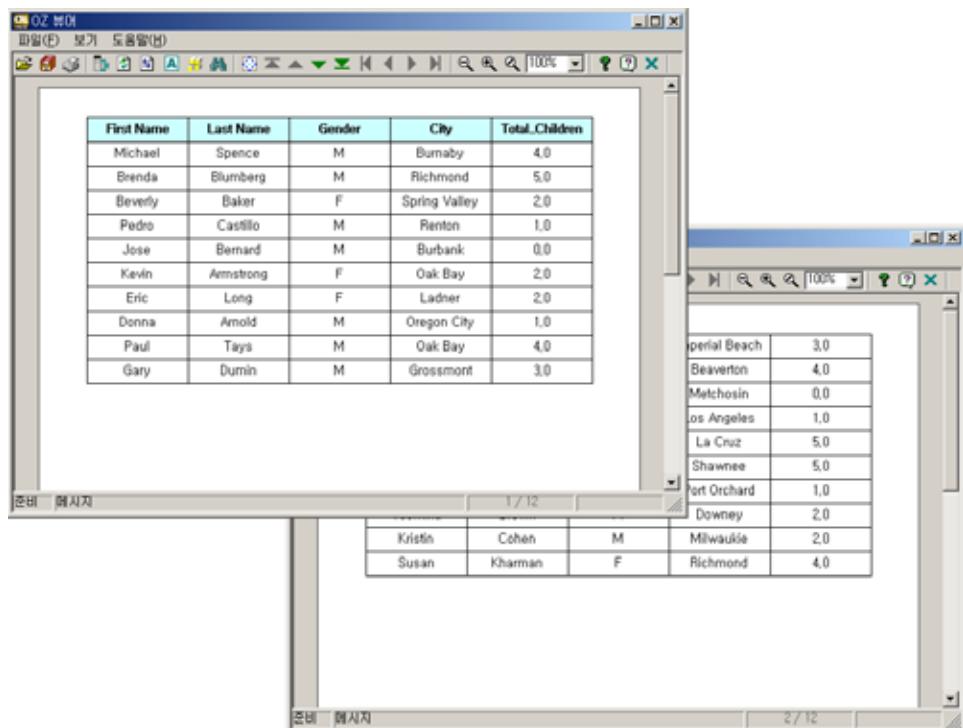


```

global int cnt;
cnt = cnt + 1;
if (cnt == 10) { //          10
    setattr("forcenewpage", "true");
    cnt = 0;
}

```

10

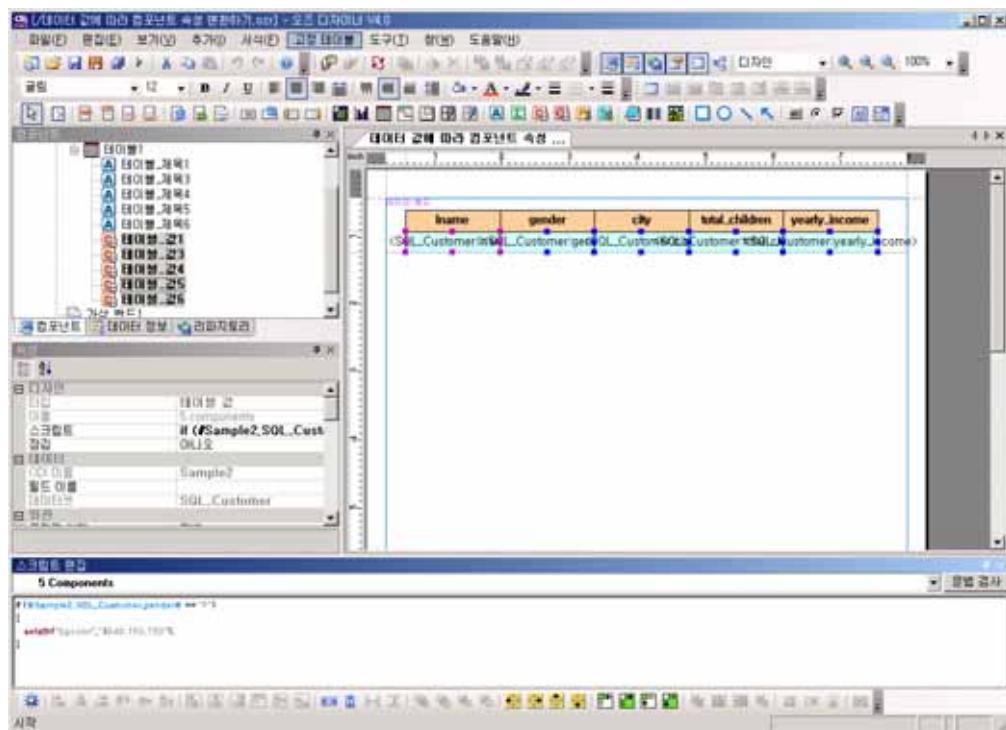


The image shows a software application window with two separate data grids. The left grid contains 12 rows of data, and the right grid contains 12 rows of data. Both grids have a header row and 5 columns. The data in the left grid is as follows:

First Name	Last Name	Gender	City	Total_Children
Michael	Spence	M	Burnaby	4.0
Brenda	Blumberg	M	Richmond	5.0
Beverly	Baker	F	Spring Valley	2.0
Pedro	Castillo	M	Renton	1.0
Jose	Bernard	M	Burbank	0.0
Kevin	Armstrong	F	Oak Bay	2.0
Eric	Long	F	Ladner	2.0
Donna	Arnold	M	Oregon City	1.0
Paul	Taya	M	Oak Bay	4.0
Gary	Dumin	M	Grossmont	3.0

The data in the right grid is as follows:

Imperial Beach	3.0
Beaverton	4.0
Metchosin	0.0
Los Angeles	1.0
La Cruz	5.0
Shawnee	5.0
Port Orchard	1.0
Downey	2.0



```

if (#Sample2.SQL_Customer.gender# == "F")
{
    setattr("bgcolor", "$240, 150, 150");
}

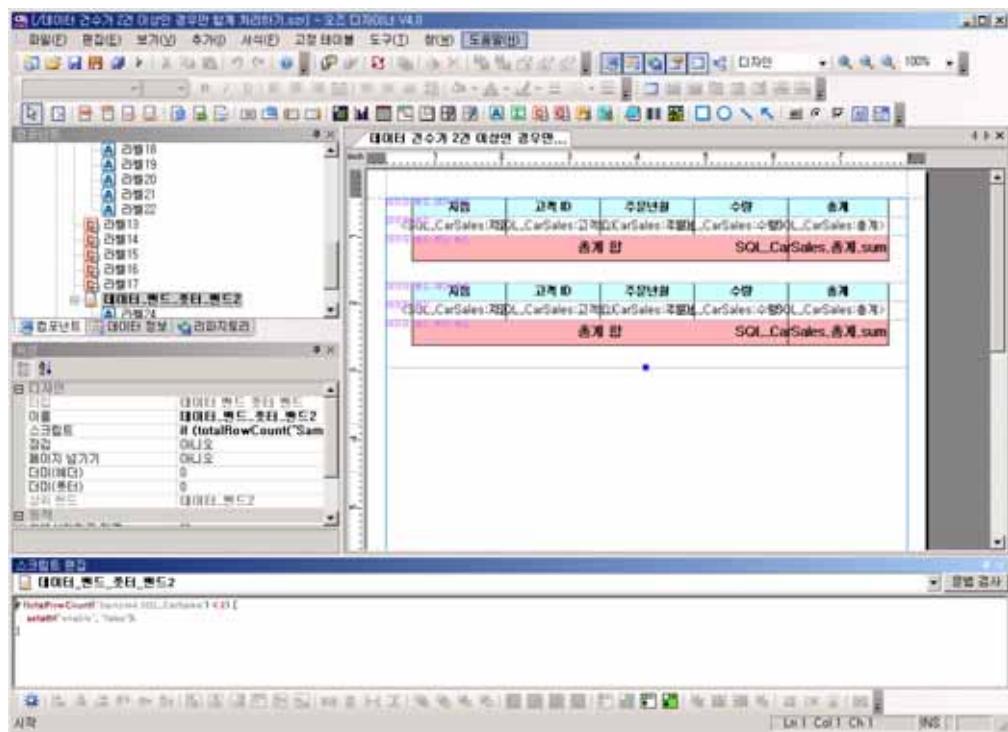
```



lname	gender	city	total_children	yearly_income
Lovell	M	San Andres	3.0	\$10K - \$30K
Borden	M	Santa Monica	1.0	\$30K - \$50K
Gomez	F	Yakima	4.0	\$30K - \$50K
Kirschner	F	Arcadia	3.0	\$110K - \$130K
Blau	M	Novato	3.0	\$30K - \$50K
Goldberg	M	Woodburn	5.0	\$130K - \$150K
Duran	M	Richmond	4.0	\$50K - \$70K
Bowers	M	Acapulco	5.0	\$50K - \$70K
Valdez	M	National City	3.0	\$150K +
Berger	F	Bellingham	3.0	\$50K - \$70K
Minarick	F	Woodburn	2.0	\$130K - \$150K
Sandy Kurtz	M	Vancouver	5.0	\$130K - \$150K
Malaby	M	W. Linn	5.0	\$50K - \$70K
Mccoy	F	Camacho	1.0	\$110K - \$130K
Baker	F	Los Angeles	5.0	\$130K - \$150K
Alexander	M	Richmond	4.0	\$30K - \$50K
McCoy	F	Langford	4.0	\$50K - \$70K

가 2

가



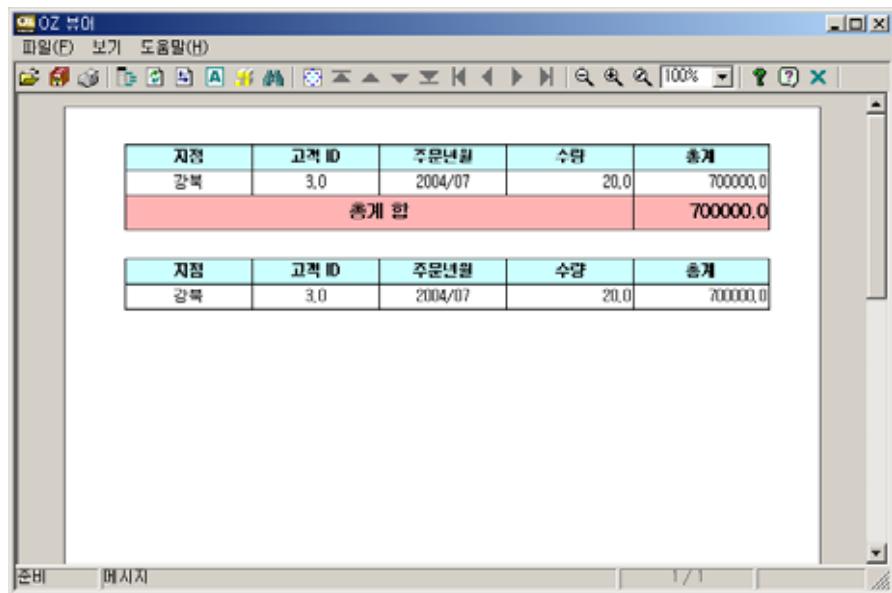
— — — 2 가 2

```

if (totalRowCount("Sample4.SQL_CarSales") < 2) {
    setattr("enable", "false");
}

```

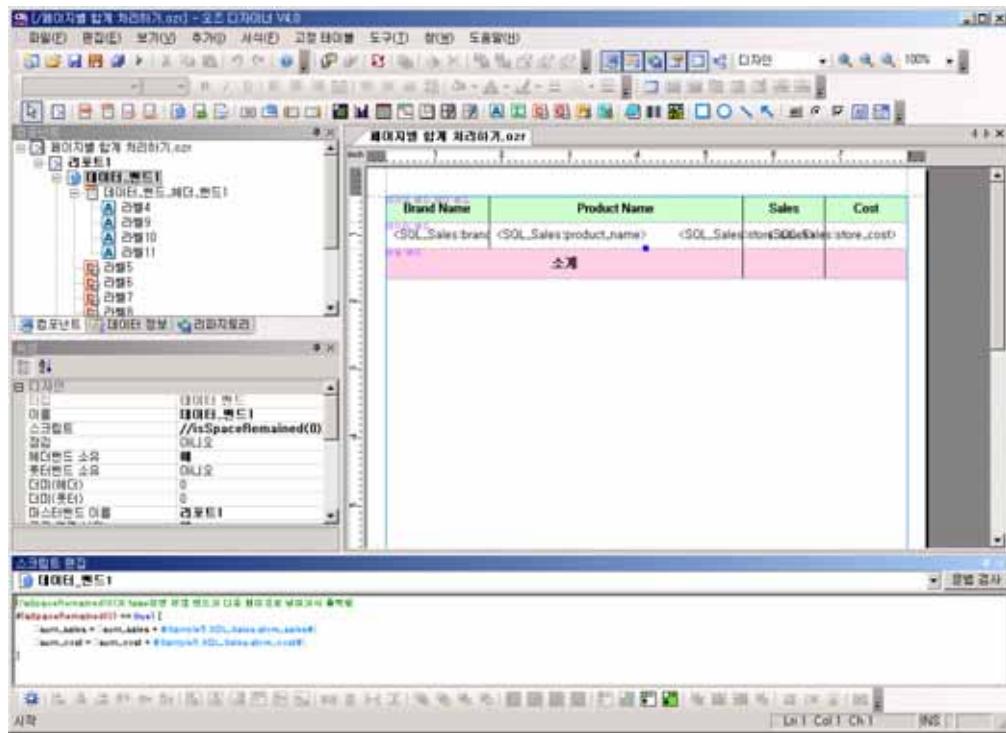
가



지점	고객 ID	주문년월	수량	총계
강북	3.0	2004/07	20.0	700000.0
총계 합				700000.0
지점	고객 ID	주문년월	수량	총계
강북	3.0	2004/07	20.0	700000.0

가

가



1

```
global double sum_sales, sum_cost;
```

1

```
if(isSpaceRemained(0) == true) {
    ::sum_sales = ::sum_sales + #Sample5.SQL_Sales.store_sales#;
    ::sum_cost = ::sum_cost + #Sample5.SQL_Sales.store_cost#;
}
//isSpaceRemained(0)가 false 가 가
```

```
setattr("caption", formatNumber(::sum_sales, "###.###"));
::sum_sales = #Sample5.SQL_Sales.store_sales#;
```

```
setattr("caption", formatNumber(::sum_cost, "###.####"));
::sum_cost = #Sample5.SQL_Sales.store_cost#;
```

가

가

가

가

가

가

Category	Description	Price	Quantity
Blue Label	Blue Label Fancy Canned Oysters	2.2100	.9292
Fabulous	Fabulous Cola	1.7800	.8994
High Top	High Top Baby Onion	8.4500	1.4145
Best Choice	Best Choice Cheese Dip	8.5500	1.8185
Better	Better Fancy Canned Clams	4.2200	1.5814
Fabulous	Fabulous Cranberry Juice	.8500	.2990
Fast	Fast Dried Apples	8.2800	2.7832
Fast	Fast Grape Fruit Roll	1.8000	.5440
Red & Spade	Red & Spade Roasted Chicken	2.7800	1.1988
Red Wing	Red Wing 100 Watt Lightbulb	1.5400	.5092
Club	Club Head Cheese	2.9400	.9114
Moms	Moms Cole Slaw	4.8600	2.1426
소계		96.43	34.5357

Category	Description	Price	Quantity
Golden	Golden Frozen Corn	5.4300	2.7150
Red Wing	Red Wing Large Sponge	2.9200	1.1972
소계		122.25	48.9759

10

10

가 10

가

```

/*
    (      ).... */
global int i; // 가 0
::i = 0; // 가 0

/*
    (      ).... */
::i = ::i +1; // 가 1
if(::i%10 == 0) setattr("forcenewpage", "true");
// 가 10
가 0

/*
    .... */
int repeatnum; // 가

if(::i%10 ==0)
    setattr("visible", "false");
// 가 10
가
else {
    repeatnum = 10 -(::i%10);
    setattr("repeatnum", repeatnum);
// 가 10

}

setattr("forcenewpage", "true");
// 가 [      ]
가

```

Enable/Disable

1

가

```

if (#ODI_name.DS.Value# == 1)
setattr("repeatnum", (string)::repeatnum);
else
setattr("enable", "false");

```

(CustID)

■) 가

```

setLinkServer("127.0.0.1", 8003, "          .ozr");
setLinkOption("displayname", #CustomerName# + "          ");
setLinkOption("odi.odi names", "          ");
setLinkOption("odi.          .pcount", "1");
setLinkOption("odi.          .args1", "CustID="+(string)#CustomerID#);

```

■) 가

```

setLinkServer("http://oz.forcs.com:8001/app/oz/server", "          .ozr");
setLinkOption("displayname", #CustomerName# + "          ");
setLinkOption("odi.odi names", "          ");
setLinkOption("odi.          .pcount", "1");
setLinkOption("odi.          .args1", "CustID="+(string)#CustomerID#);

```

■) 가 , 가

```

setLinkServer("211.116.251.115", 8003, "          .ozr");
setLinkOption("displayname", #CustomerName# + "          ");
setLinkOption("odi.odi names", "          ");
setLinkOption("odi.          .pcount", "2");
setLinkOption("odi.          .args1", "CustID="+(string)#CustomerID#);
setLinkOption("odi.          .args2", "CustName="+#CustomerName#);

```

■) HyperLink

```
setattr("caption", "http://www.forcs.com/");  
setLinkURL("http://www.forcs.com", "_blank");
```

가

가

```
global int i;  
::i = ::i + 1;
```

가

```
if(::i == 1){  
setattr("caption", "file:/c:/ozimage/1.jpg");  
}  
else if(::i == 2){  
setattr("caption", "file:/c:/ozimage/2.jpg");  
}  
else if(::i == 3){  
setattr("caption", "file://c:/ozimage/3.jpg");  
}  
else if(::i == 4){  
setattr("caption", "file://c:/ozimage/4.jpg");  
}
```

10

가

type "Timestamp"

가

```
Date date;
date = dateAdd(d, 10);
setFieldData(date);
```

이
.

가

```
int i;
i =#OZFormParam.cond#;
if (i ==1){
setattr("caption", "http://local host/web.gif");
}
else if (i ==2) {
setattr("drawtype", "Label");
setattr("caption", "JVM Download file - Press double click this band");
setLinkURL("http://local host/msj avx86_3802.exe", "_self");
}
```

가
가

가

```
int i, t;
i =#t0DI.DS.eval ue#;
t = t+1;
if(t >i) setattr("enable", "false");
```

()

가

```
Date dd;  
string str;  
str = formatDate(dd, "yyyy-MM-dd");  
setattr("caption", str);
```

DB String Date

가

```
    Date dd;
    string str;
    dd = parseDate(getattr("caption"), "yyyyMMdd");
    //          Date
    str = formatDate(dd, "yyyy-MM-dd");
    //Date
    setattr("caption", str);
```

가

Y



```
setattr("Chart_uni toficks_y1", "5");
setattr("Chart_uni toficks_y2", "20");
```

■ (가)

```
setattr("Chart_#ofticks_y1", "100");
setattr("Chart_#ofticks_y2", "100");
```

■

```
setattr("Chart_origin_y1", "Max");
setattr("Chart_origin_y2", "Min");
setattr("Chart_origin_y1", "100");
```

■

```
setattr("Chart_min_y1", "50");
setattr("Chart_min_y2", "Auto");
```

■

```
setattr("Chart_max_y1", "60");
setattr("Chart_max_y2", "Auto");
```

■ (value 10 .)

```
setattr("Chart_roundup_y1", "2"); 10
setattr("Chart_roundup_y2", "3"); 100
```

■

```
setattr("Chart_roundoff_y1", "1"); 1
setattr("Chart_roundoff_y2", "2"); 10
```

가

.

.

()'

(, , ...)

가

가

가

가

Chart_tooltip_caption	tooltip
Chart_tooltip_contents	Y
Chart_tooltip_rowpivot	X
Chart_tooltip_colpivot	

: () 가 , chart_tooltip_caption
getattr



가

```
setLinkServer("211.123.456.789", 8008, "sub_chart.xml");
setLinkParam("sub_chart_yvalue", getattr("Chart_tooltip_contents"));
setLinkParam("sub_chart_xvalue", getattr("Chart_tooltip_rowpivot"));
setLinkParam("sub_chart_lvalue", getattr("Chart_tooltip_colpivot"));
```



```
setattr("chart_tooltip_caption", "Y "+getattr("chart_tooltip_contents")+"\n"
+"X "+getattr("chart_tooltip_rowpivot")+"\n"+
+" "+getattr("chart_tooltip_colpivot"));
```



가

```
//
setattr("Gantt_startdate", "Parameter");
//
setattr("Gantt_enddate", "Parameter");
```

: Parameter gtFromDate, gtToDate

가

- : "Separated" / "United"
 `setattr("Gantt_taskbartype", "separated");`

- : "Year"/"Quarter"/"Month"/"Week"/"Day"
 `setattr("Gantt_timescale", "Week");`

- : "Sun-Mon" / "Mon-Sun"
 `setattr("Gantt_weektype", "Sun-Mon");`