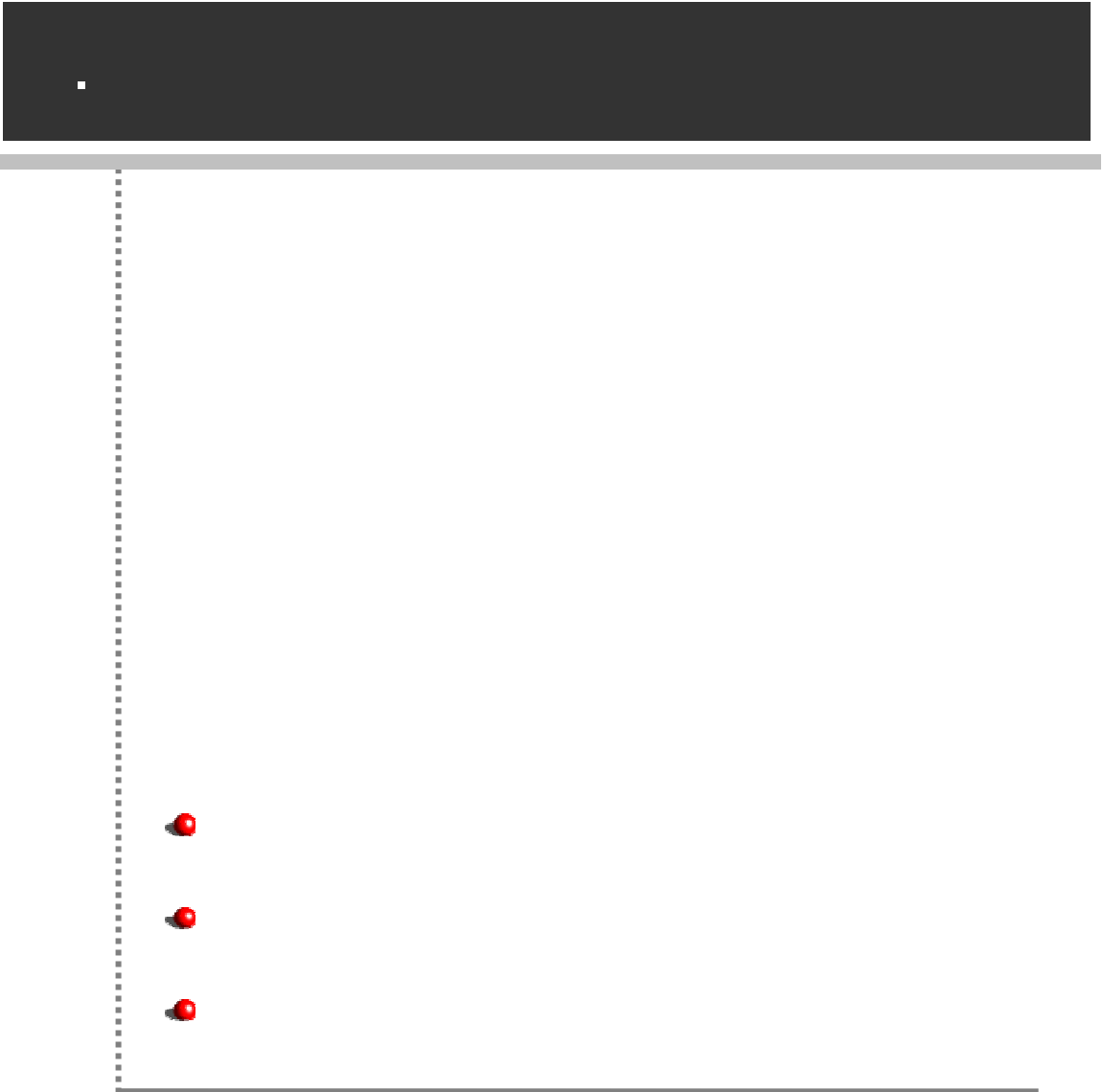
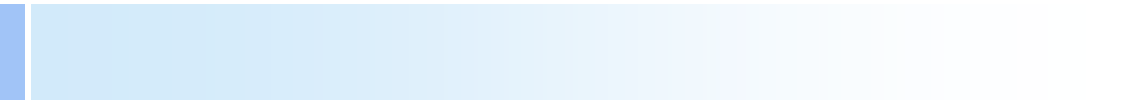
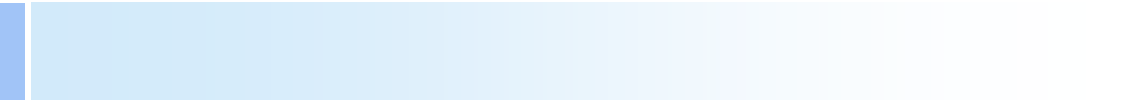


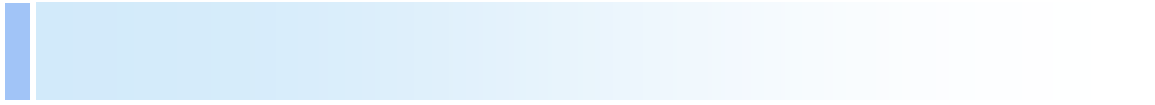
•	.....	3
	.....	4
	.....	4
	.....	5
•	.....	7
	.....	8
	.....	8
	.....	10
•	.....	17
	.....	18
	.....	26
	.....	27
	.....	28
	.....	31
	.....	32
	.....	33
	.....	33
	.....	35
SQL	.....	35
	.....	36
	.....	55
	.....	57
	.....	58

	.....	62
USL	.....	63
	.....	65
	.....	66
	.....	71
	.....	75



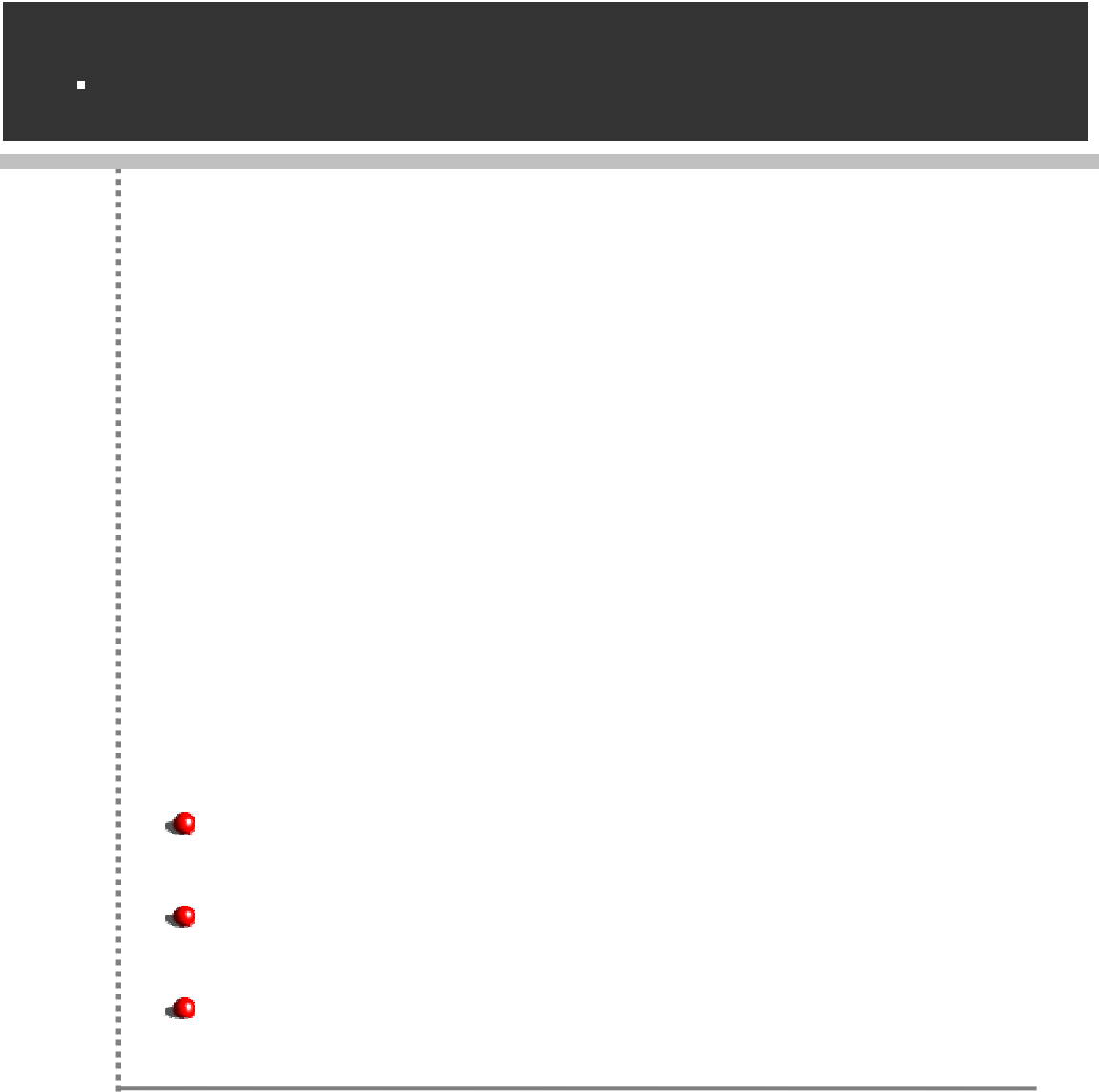


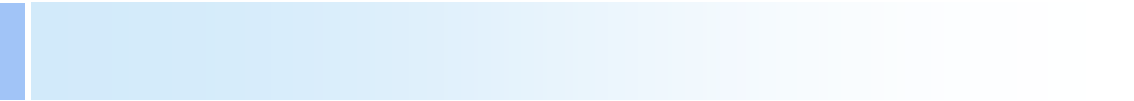
가



, 가

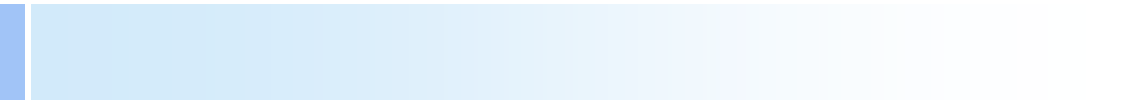
Manual	Description
Getting Started	.
가	.
	.
가	.
가	가
	.





‘ ‘ ‘

.



가 .

(Scripted Query)

,

.

.

가 가
가 가
가

,

.



-

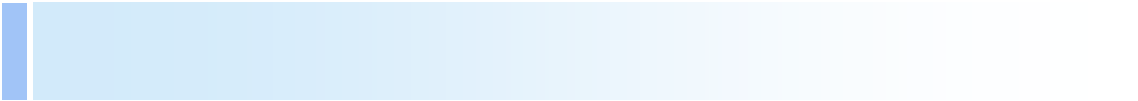
-

-

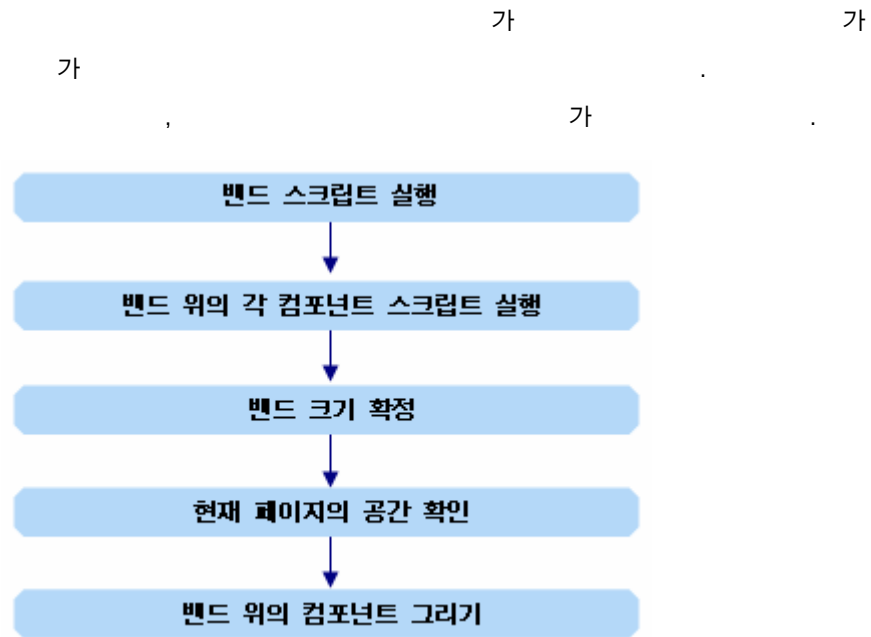
가

-

(),



■



/

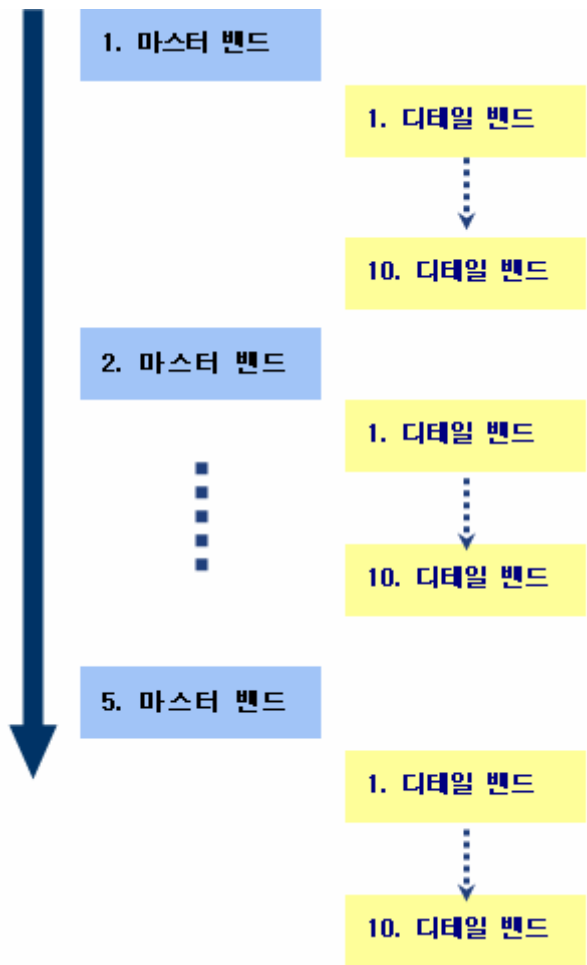
가

■

-

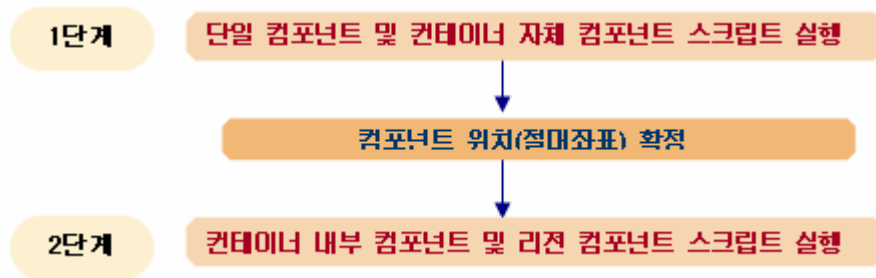
가 5

가 10



가 ,
.
[
]
[]

2



■

가
) : 1 → 2 → 1
 : [1] 1 → 2 → 1

■

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

■

()

가 가
 가 , 가 2
 1) : 1 → 2
 : 1 → 1 → 2 → 2

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

■

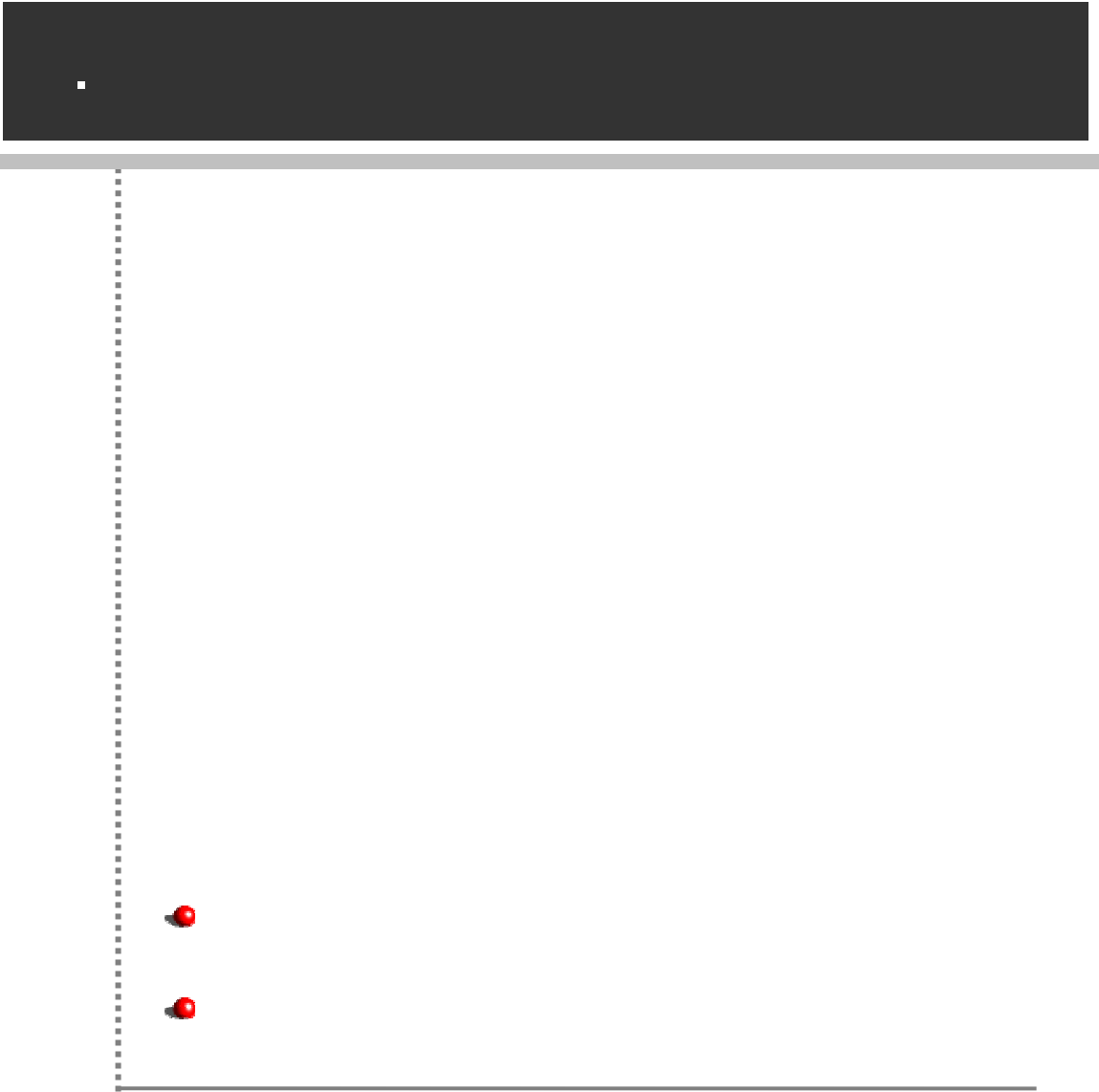
18		16		17 ()
		14	15 ()	
12	10	1	2	3
	11 ()	4	5	6
13 ()		7	8	9

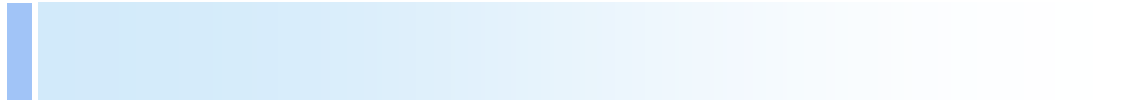
■

(Toppose, Leftpose)

() 1 가

()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"

: " \n"

: " \r"

: "\" \\""

: \+8 : "\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)

■

가

- : ;
- : global ;
- (Underline)
-
- ,
-
- ()
- ()

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 가 + , - 가 가
- boolean .

가

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

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

- 가 , double
- 가 .

- ```
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) .

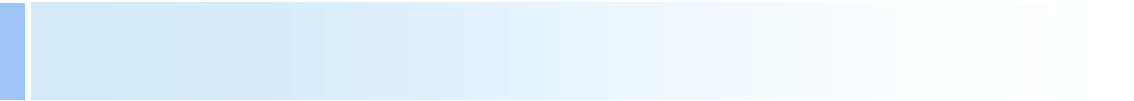
■ if-else

Statement가

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

■ while

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



|     | ( , , , ) |
|-----|-----------|
|     | ( , , , ) |
|     | ( , , , ) |
|     | ( , , , ) |
|     |           |
|     | /         |
|     |           |
| 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 ~ n

- **double sin(double n)**

n sin

- **double sqrt(double n)**

n square root ( , n>0)

- **double tan(double n)**

n tangent

1 0 .  
2 byte . , strlenb(), substrb() .

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

src n+1

ex) getchar("abcdef", 2) → "c"

ex) getchar("가 ", 2) → " "

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

src n+1 dst

dst 가 2 byte .

ex) setchar("abcdef",2, "1") → "ab1def"

ex) setchar("가 ",2, " ") → "가 "

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

src dst가 true, false

■ **boolean stricmp(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 src가 len 가 ,

ex) strshift("abcdefg",3) → "abcd"

ex) strshift("abcdefg",-3) → "defg"

### ■ string strtodouble(double value, int option)

double option scientific notation

, option 0 , 1

double 0.0001 "1E-4"

ex) strtodouble(0.0001,0) → "1E-4"

ex) strtodouble(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("&#112; &#108; &#97; &#110;") → 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 | value / , |         |   |
|           | 1,        | 2, ..., | 7 |
| 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")

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

from to

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

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

```

year month day day_amount
 flag , flag getDate

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

```

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

string

"

"

■ void setglobal("flag\_name", "value")

가

global

가

value

■ 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("odi\_name.dataset\_name.field\_name")

■ getdata("OZFormParam.param\_name")

■ getdata("odi\_name.OZParam.param\_name")

■ getdata("OZSystem.sys\_field\_name")

/ /

double, int, string

''' '#'



#### ■ **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 SQL . SQL  
 #table.field# getdata(...) 가 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"

■ **setcompattr("name", "attr", "value")**

"name" ( ) (attr)  
"value"

■ **getcompattr("name", "attr")**

"name" ( ) (attr)

■ **setuserattr("attr", "value")**

(attr) "value"

■ **getuserattr("attr")**

(attr)

■ **setusercompattr("name", "attr", "value")**

"name" (attr) "value"

■ **getusercompattr("name", "attr")**

"name" (attr)

■      /      /      /      /

|                        |                                                                                                                |                          |
|------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|
| strech / textdirection | Vertical / Horizontal /<br>Vertical_2BYTE / Clockwise<br>CounterClockwise /<br>Horizontal_2BYTE                |                          |
| wirtedirection         | LeftToRight_TopToBottom /<br>LeftToRight_BottomToTop /<br>RightToLeft_TopToBottom /<br>RightToLeft_BottomToTop |                          |
| autofontsize           | true / false /<br>largeronly / smalleronly                                                                     |                          |
| autosize               | true / false                                                                                                   |                          |
| wordwrap               | true / false                                                                                                   |                          |
| wordwraptype           | default / ignorespace                                                                                          |                          |
| caption                |                                                                                                                |                          |
| clip                   | true / false                                                                                                   | (     가<br>)             |
| effect                 | Basic / Shadow / Engrave /<br>Outline / Hollow / Segments /<br>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 /<br>DoubleStrikeOut                                                              |                          |
| shrink                 | true / false                                                                                                   |                          |
| noborder               | true / false                                                                                                   |                          |
| FrameDrawingMode       | Inside / Center/ Outside                                                                                       |                          |
| visible                | true / false                                                                                                   |                          |
| printable              | true / false                                                                                                   |                          |

|                               |              |                                                                                                                    |
|-------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------|
| format                        |              |                                                                                                                    |
| <b>Export</b>                 |              |                                                                                                                    |
| Export_All                    | true / false | :<br>Export_All true<br>false<br>.<br>ex)<br>setattr("Export_All","true");<br>setattr("Export_txt","false");       |
| Export_Nothing                | true / false | :<br>Export_Nothing true<br>true<br>.<br>ex)<br>setattr("Export_Nothing","true");<br>setattr("Export_txt","true"); |
| 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                                                                                                                |
| <b>Customizable On Viewer</b> |              |                                                                                                                    |
| movable                       | true / false | 가                                                                                                                  |
| editable                      | true / false | / 가                                                                                                                |

|                   |              |   |
|-------------------|--------------|---|
| changeable        | true / false | 가 |
| <b>Auto Shift</b> |              |   |
| downrelated       | ex) 1, 2,... |   |
| rightrelated      | ex) 1, 2,... |   |

■

|           |  |  |
|-----------|--|--|
|           |  |  |
| fieldname |  |  |

■

|            |  |  |
|------------|--|--|
|            |  |  |
| expression |  |  |

: caption 가 .

■

|            |                                                                                                                                                                             |  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|            |                                                                                                                                                                             |  |
| imagestyle | Normal / Center / Fit / Tile /<br>FitByWidth / FitByHeight / Isotropic /<br>TopCenter / TopRight / MiddleLeft /<br>MiddleRight / BottomLeft /<br>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 /<br>CODE11 / CODE11_MOD11 /<br>CODE11_MOD11_MOD11 /<br>CODE39 / CODE39_MOD43" /<br>CODE39EXTENDED /<br>CODE39EXTENDED_MOD43 /<br>CODE93 / CODE93_MOD47 /<br>CODE93FULL /<br>CODE93FULL_MOD47 /<br>EAN8 / EAN8PLUS2 / EAN8PLUS5 /<br>EAN13 / EAN13PLUS2 /<br>EAN13PLUS5 / STANDARD2OF5 /<br>STANDARD2OF5_MOD10 /<br>INDUSTRIAL2OF5 /<br>INDUSTRIAL2OF5_MOD10 /<br>INTERLEAVED2OF5 /<br>INTERLEAVED2OF5_MOD10 /<br>MSI / MSI_MOD10 / MSI_MOD11 /<br>MSI_MOD10_MOD10 /<br>MSI_MOD10_MOD11 / OPC /<br>OPC_MOD10 / POSTNET / UPCA /<br>UPCAPLUS2 / UPCAPLUS5 / UPCE /<br>UPCEPLUS2 / UPCEPLUS5 /<br>CODE128A / CODE128A_MOD103 /<br>CODE128B / CODE128B_MOD103 /<br>CODE128C / CODE128C_MOD103 /<br>CODE128AUTO /<br>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_fitrightmargin | None /<br>LastHorzPage / AllPage |  |

■

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

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

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

|                                                  |                        |                                         |
|--------------------------------------------------|------------------------|-----------------------------------------|
| Chart_origin_x                                   | Min / Max / ( :DOUBLE) | X<br>X X<br>- MIN : X<br>- MAX : X<br>- |
| Chart_roundoff_x                                 | ( :INT)                | X                                       |
| Chart_roundup_x                                  |                        | X                                       |
| Chart_uniotofticks_x                             | ( :INT)                | X                                       |
| XAxisReverse                                     | true / false           | X                                       |
| <b>Y Axis</b>                                    |                        |                                         |
| Chart_#ofticks_auto_y1<br>Chart_#ofticks_auto_y2 | true / false           | Y                                       |
| Chart_#ofticks_y1<br>Chart_#ofticks_y2           | ( :INT)                | Y<br>( 가 )                              |
| Chart_baseline_y1<br>Chart_baseline_y2           | Min / Max / ( :INT)    | Y<br>- MIN : Y<br>- MAX : Y<br>-        |
| Chart_max_auto_y1<br>Chart_max_auto_y2           | true / false           | Y                                       |
| Chart_max_y1<br>Chart_max_y2                     | Auto / ( :DOUBLE)      | Y<br>Auto :                             |
| Chart_min_auto_y1<br>Chart_min_auto_y2           | true / false           | Y                                       |
| Chart_min_y1<br>Chart_min_y2                     | Auto / ( :DOUBLE)      | Y<br>Auto :                             |
| Chart_origin_y1<br>Chart_origin_y2               | Min / Max / ( :DOUBLE) | Y<br>X Y<br>- MIN : Y<br>- MAX : Y<br>- |
| Chart_period_y                                   |                        | Y                                       |

|                                                                                |              |                  |
|--------------------------------------------------------------------------------|--------------|------------------|
| Chart_roundoff_y1<br>Chart_roundoff_y2<br>Chart_roundup_y1<br>Chart_roundup_y2 | ( :INT)      | Y<br>Y           |
| Chart_sub_period_y                                                             | ( :INT)      | Y<br>1<br>1<br>1 |
| Chart_unitofticks_y1<br>Chart_unitofticks_y2                                   | ( :INT)      | Y                |
| YAxisLeftReverse                                                               | true / false | Y                |
| YaxisLeftTitle                                                                 |              | Y                |
| YaxisLeftTopTitle                                                              |              | Y                |
| YAxisRightReverse                                                              | true / false | Y                |
| YaxisRightTitle                                                                |              | Y                |
| YaxisRightTopTitle                                                             |              | Y                |
| <b>Z Axis</b>                                                                  |              |                  |
| Chart_period_z                                                                 |              | Z                |
| Chart_sub_period_z                                                             | ( :INT)      | Z<br>1<br>1<br>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              |
|  | 가           | HBar_3D_Bundle            |
|  | 가           | 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          |
|  | 가      | HCone_3D_Bundle           |
|  | 가      | 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                       | - AUTO :<br>- Parameter : gt_fromDate                               |
|-------------------|----------------------------------------|---------------------------------------------------------------------|
| Gantt_enddate     | Auto / Parameter                       | - AUTO :<br>- Parameter : gt_toDate                                 |
| Gantt_taskbartype | Separated / United                     | - Separated :                   가<br>- United :                   가 |
| Gantt_timescale   | Year / Quarter / Month /<br>Week / Day | , , , ,                                                             |
| Gantt_weektype    | Sun-Mon / Mon-Sun                      | ,                                                                   |



| autosize | true / false | : Page Header/Footer, Tail<br>Band       |
|----------|--------------|------------------------------------------|
| enable   | true / false | : "false"<br>가<br>가                      |
| visible  | true / false | : "false"                                |
| height   | ( :INT)      | : Page Footer, Tail, Side<br>Band height |

|               |              |                                                        |
|---------------|--------------|--------------------------------------------------------|
| width         | ( :INT)      | : width Expander                                       |
| forcenewpage  | true / false |                                                        |
| datasetname   |              |                                                        |
| emptydataband | ( :INT)      | : getattr, getcompattr, getuserattr, getusercompattr 가 |
| pageendstop   | true / false | 가 가<br>: Dummy 가                                       |
| repeatnum     | ( :INT)      | : Dummy 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 :<br>3 : , 4 :<br>5 : , 6 : |
| ARROWDIRECT    | 1 / 2 / 3                                 | 1 : , 2 :<br>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<br>2 | 10<br>3     | 24,0 | 6<br>5<br>3 |        | 14,0 | 38,0  |
|        | 광주 |        | 2<br>4      | 6,0  | 4<br>6      | 6<br>7 | 23,0 | 29,0  |
|        | 합계 | 11,0   | 19,0        | 30,0 | 24,0        | 13,0   | 37,0 | 67,0  |
| 충청     | 대전 | 3<br>4 | 4<br>3      | 14,0 | 1<br>8      |        | 9,0  | 23,0  |
|        | 충주 | 9      | 8<br>9<br>8 | 34,0 | 7<br>0      | 9<br>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 0 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 | 가<br>( : 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<br>URL |
| _parent | URL         | 가<br>URL |
|         | _self       | _self    |

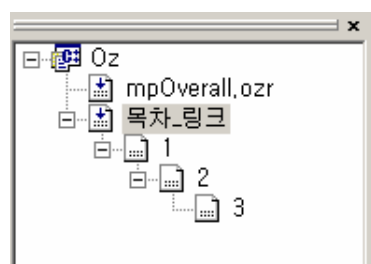
|        |   |   |
|--------|---|---|
|        |   |   |
|        | 가 | 가 |
| _top   | 가 | 가 |
|        | 가 | 가 |
| _blank | 가 | 가 |
|        | 가 | 가 |

#### ■ 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")



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

: setBrowserOption "setLinkPostURL"  
"setLinkURL" 가 .

```
)
setLinkPostURL("www.forcs.com", "_blank");
setBrowserOption("ShowToolbar","false");
```

#### ■ setReportOption("option\_tag", "value")

가  
HTML 가  
ex) setReportOption("applet.smartframesize","true")

setReportOption() 가 .

|             | 가                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| connection  | args#, clientdmttype, compresseddatamodule, displayname, fetchtype, pageque, pcount, refreshcache, refreshperiod, serverdmttype, 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, wrap space                                                                                                                                                                                     |
| odi     | odinames, odiname.args#, odiname.clientdmtype, odiname.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

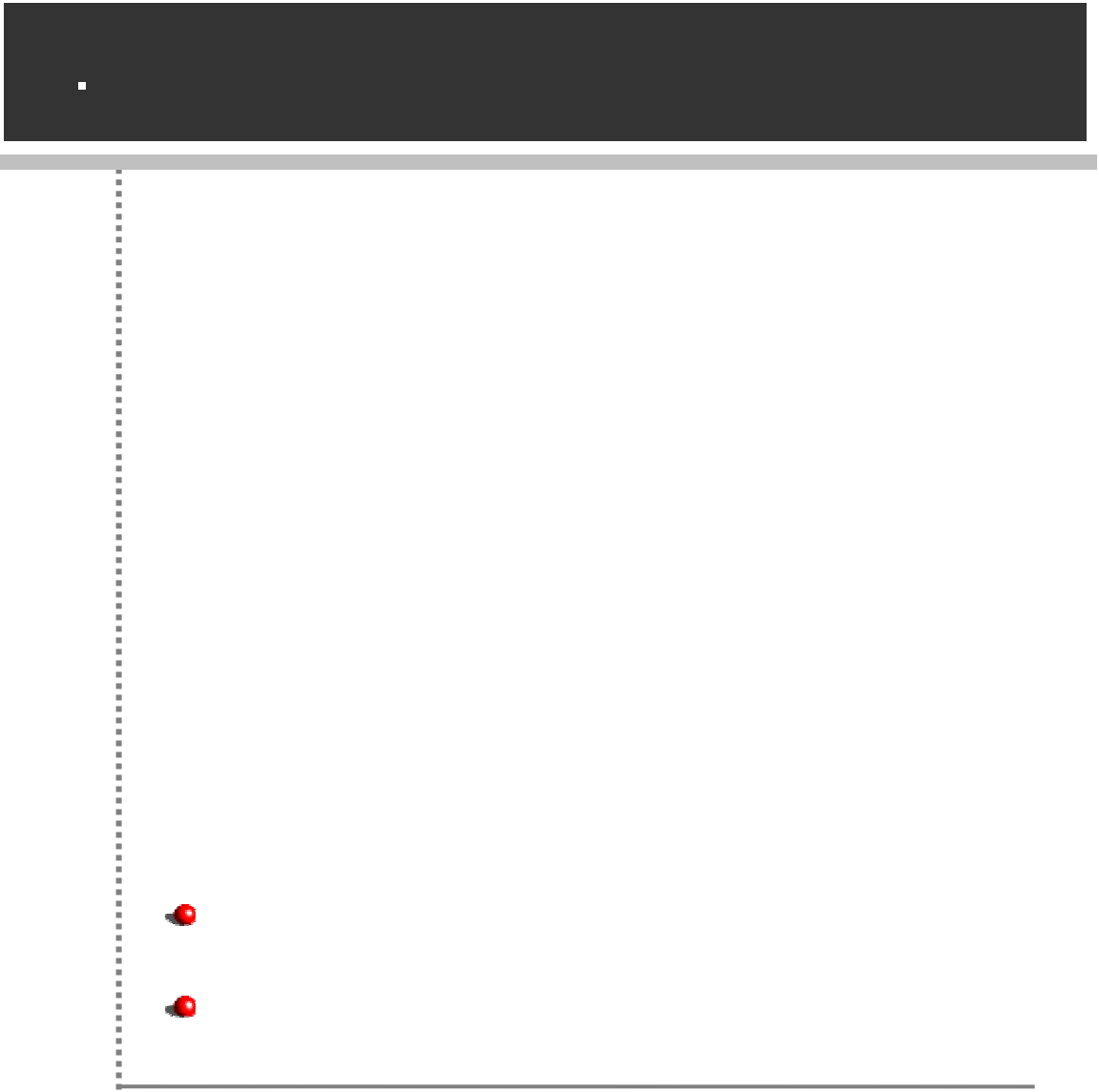
### ■ getUSLServerParam("name")

```

USL 가 . 가
 ""
) getUSLServerParam("OZUSL_SERVER_URL")

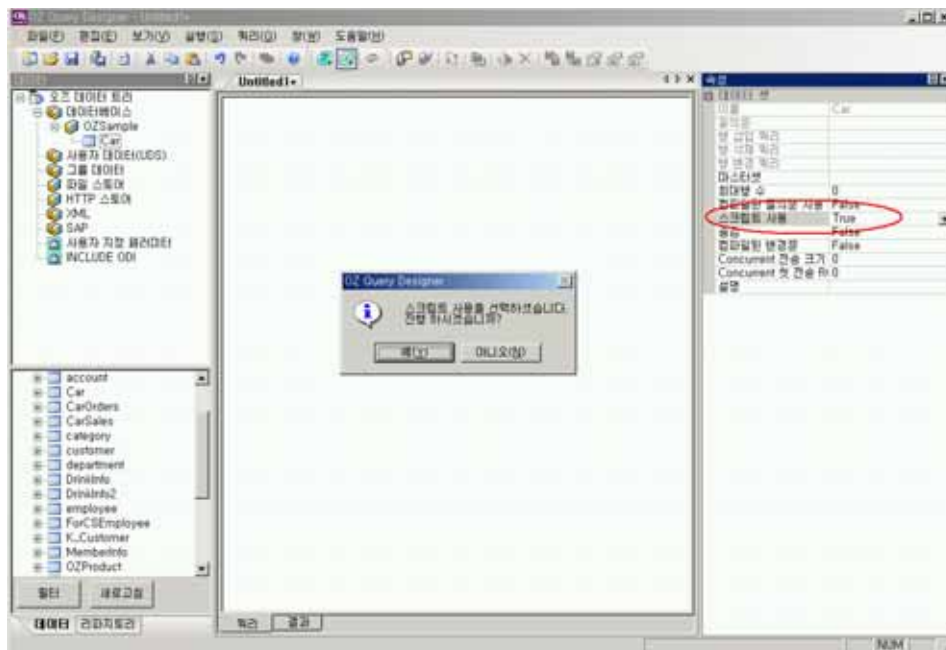
```





```
SQL setQueryString("SQL String")
```

"true"

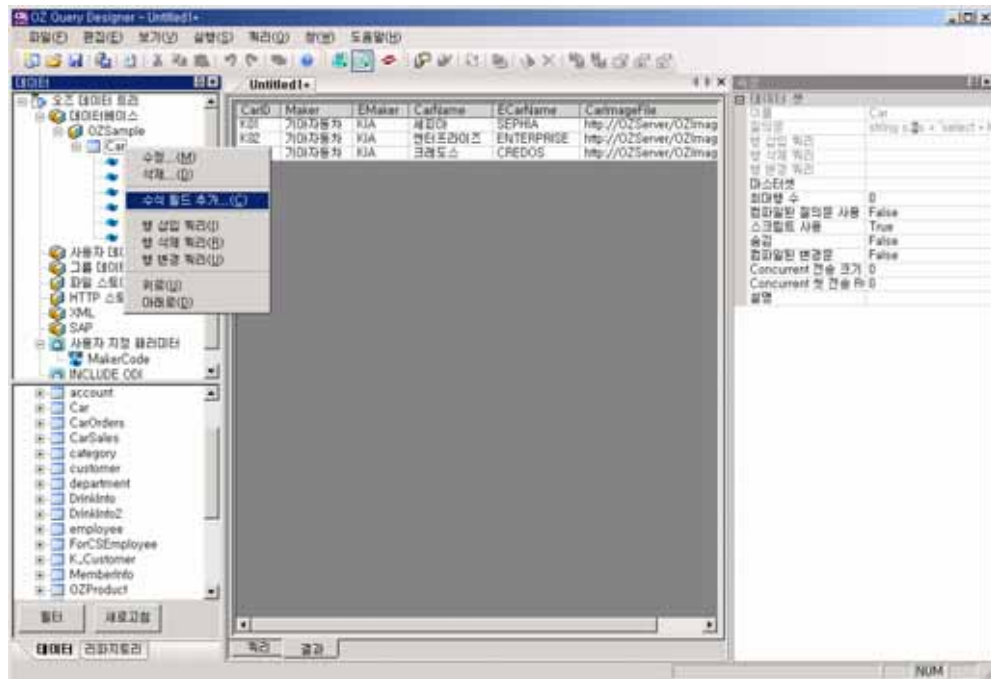


[ ]

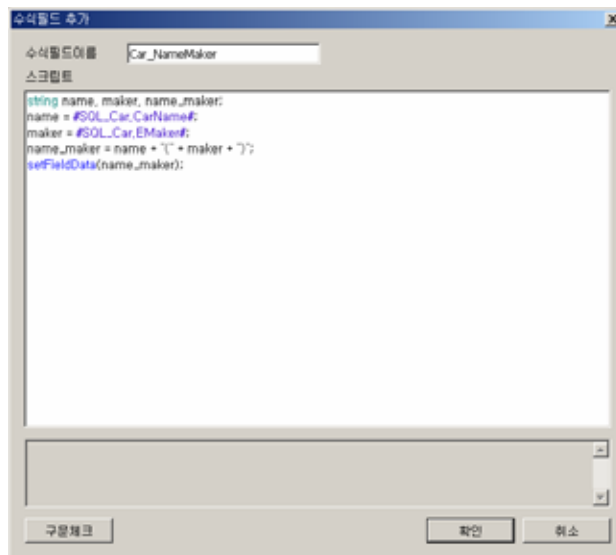
## SQL





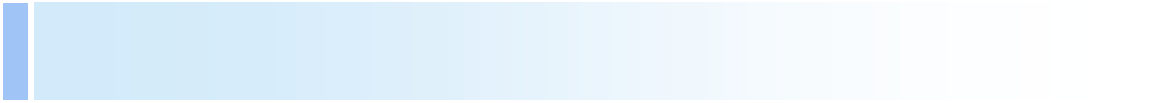


가



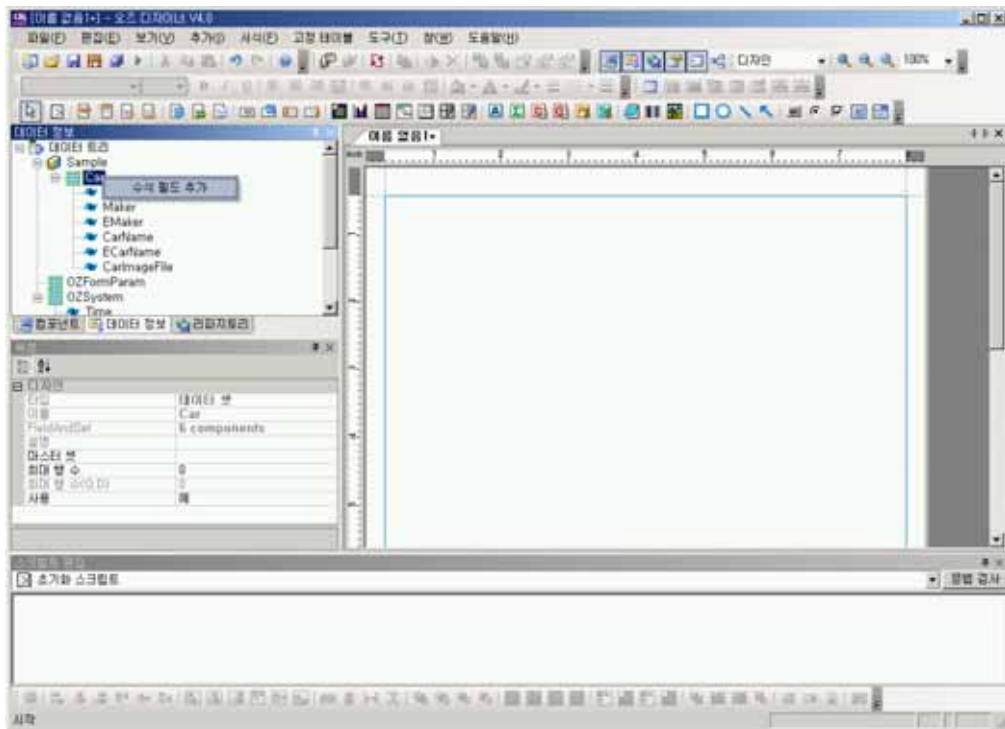
```
string name, maker, name_maker;
name = #SQL_Car.CarName#;
maker = #SQL_Car.EMaker#;
name_maker = name + "(" + maker + ")";
setFieldData(name_maker);
```



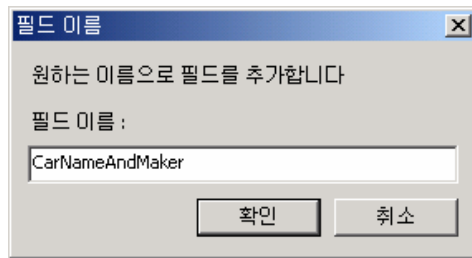


가

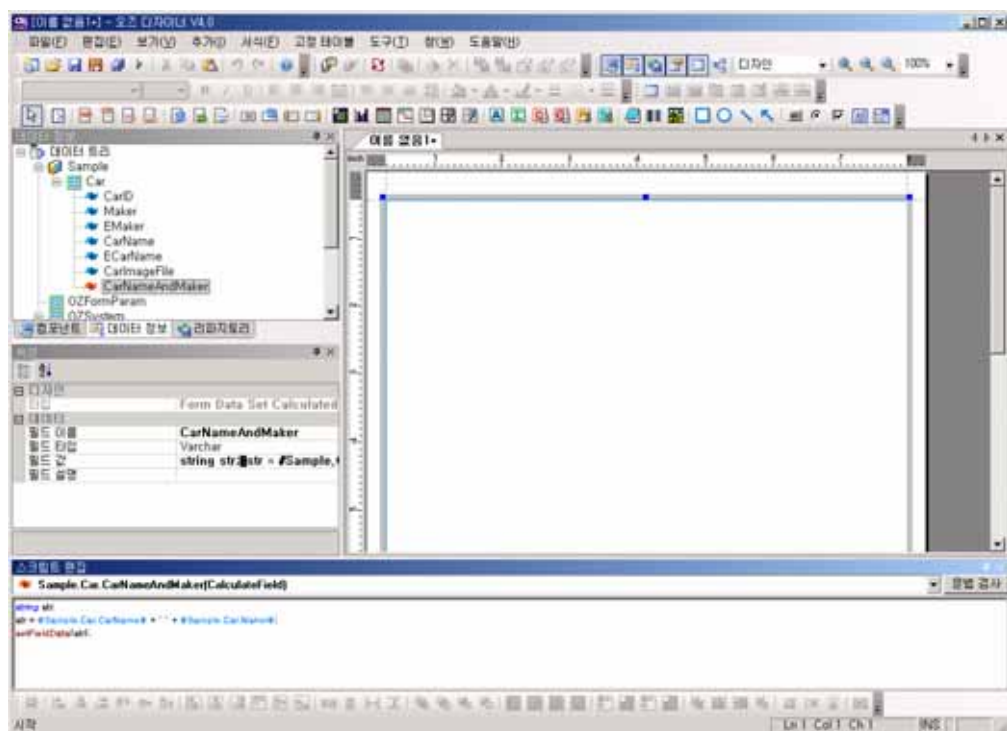
가                    가                    가                    .                    [                    가 ]



가                    [                    ]                    .



가 [ ]



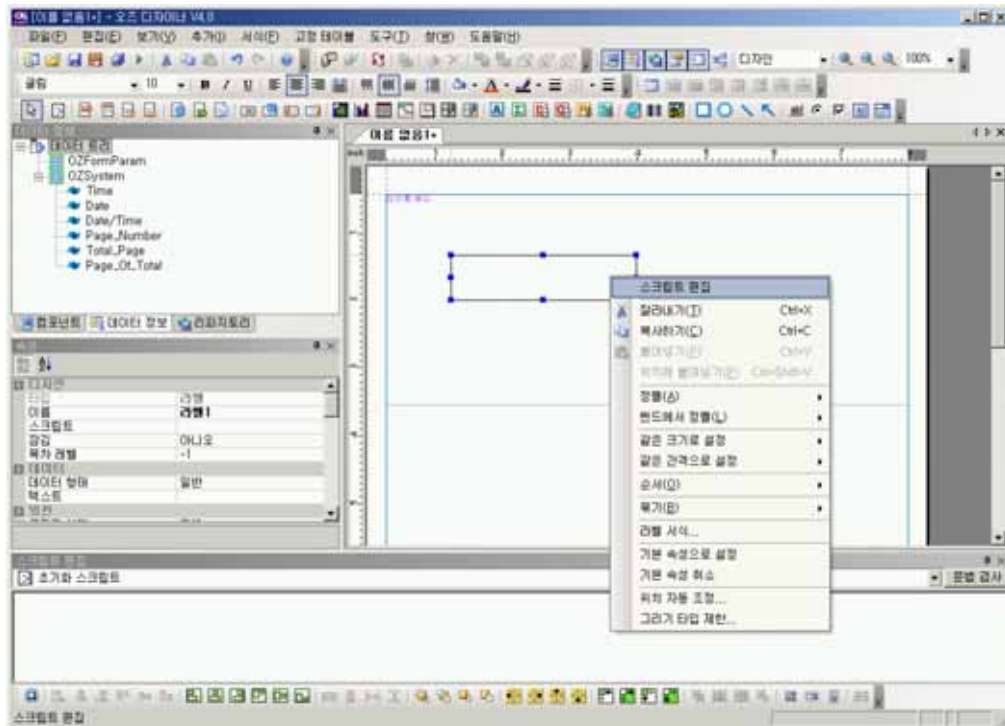
```
string str;
str = #Sample.Car.CarName# + " " + #Sample.Car.Maker#;
setFieldData(str);
```

[ ] 가

가

[

]

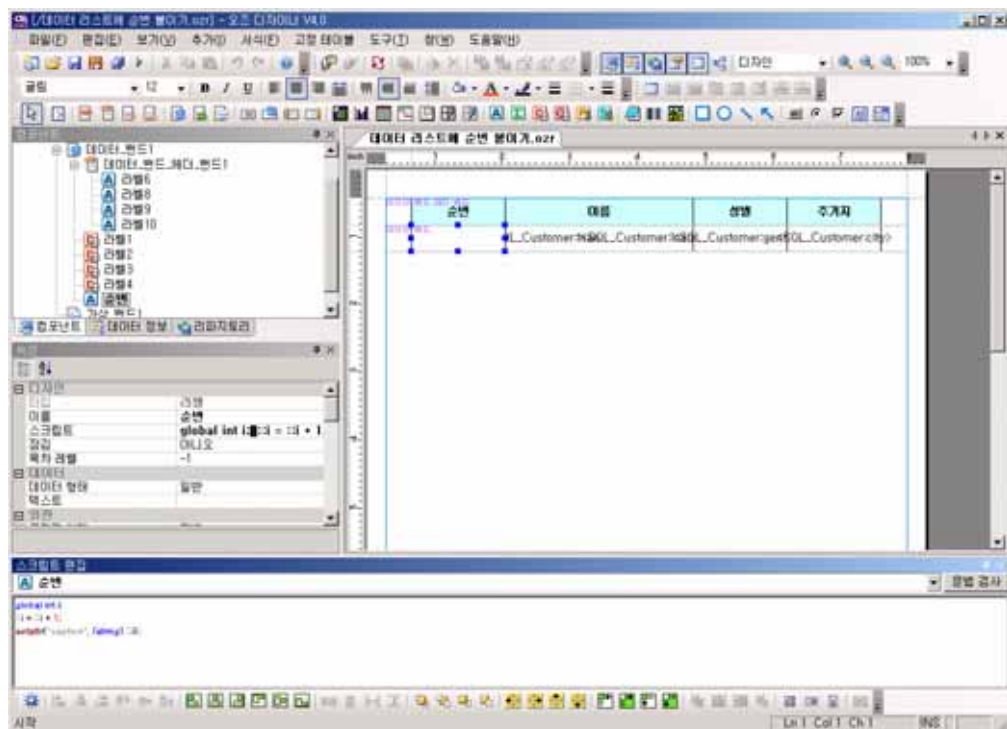






가 . SQL 가

가



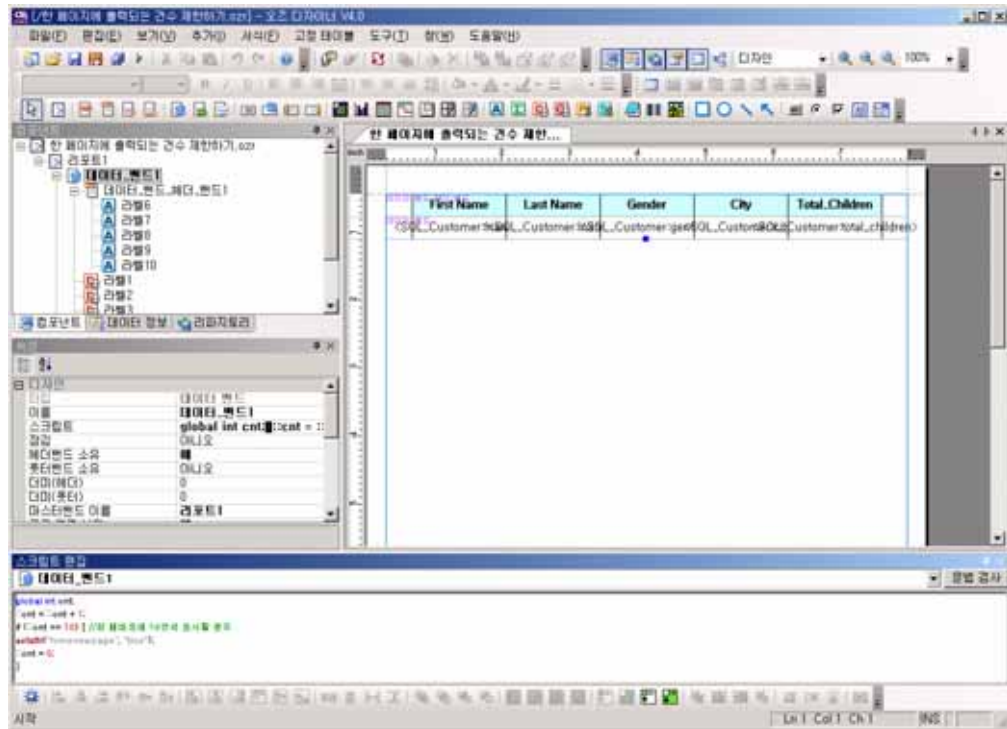
```
global int i;
::i = ::i + 1;
setattr("caption", (string) ::i);
```



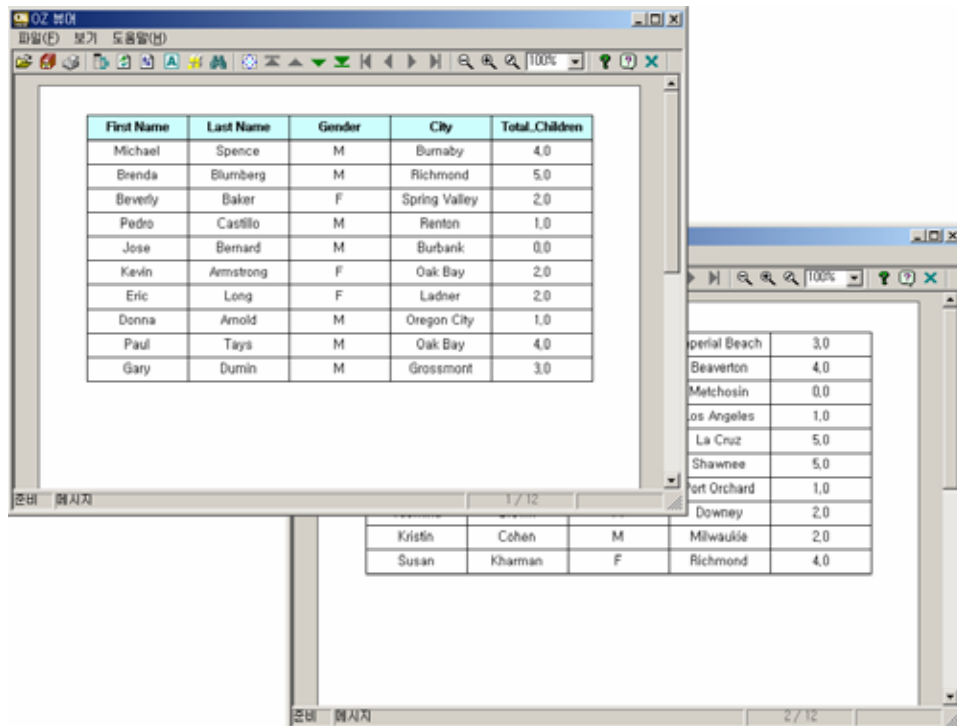
| 순번 | 이름                    | 성별 | 주거지           |
|----|-----------------------|----|---------------|
| 1  | Zach Lovell           | M  | San Andres    |
| 2  | Mary Borden           | M  | Santa Monica  |
| 3  | Louis Gomez           | F  | Yakima        |
| 4  | Gordon Kirschner      | F  | Arcadia       |
| 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;
}
```



OZ 뷰어

파일(F) 보기 도움말(H)

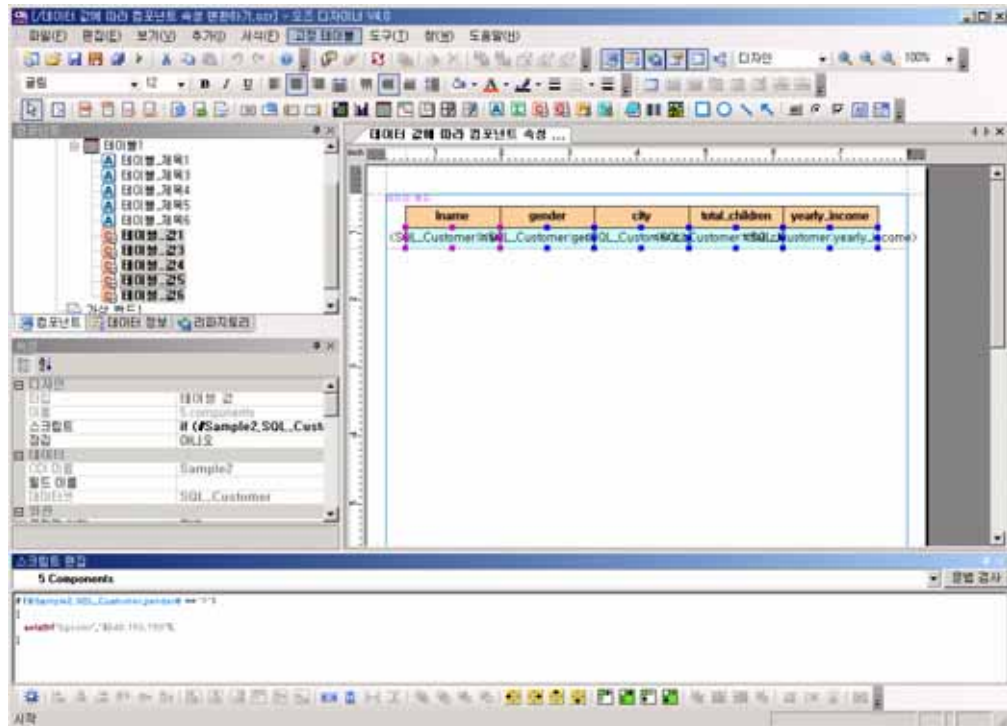
100%

| 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       | Tays      | M      | Oak Bay       | 4.0            |
| Gary       | Dumin     | M      | Grossmont     | 3.0            |

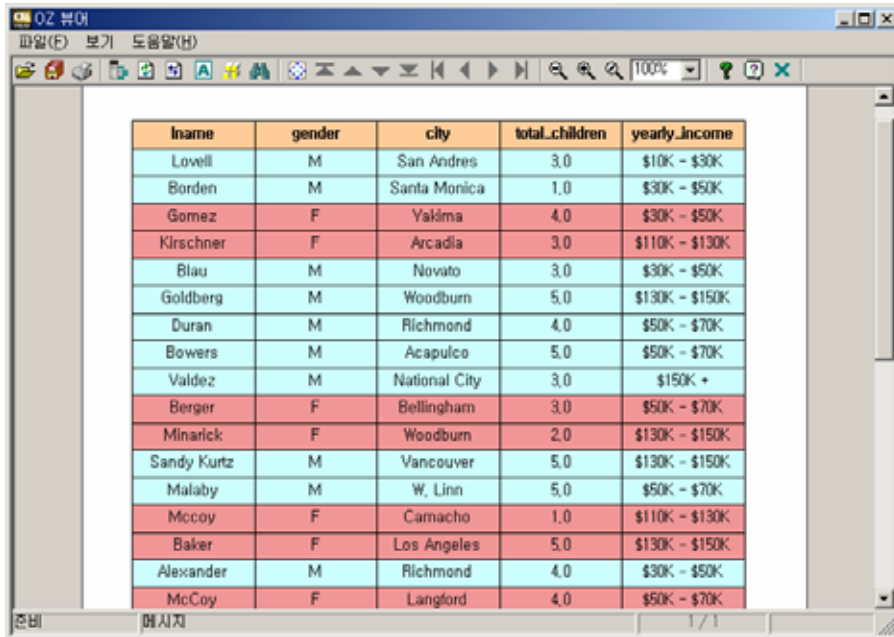
준비 메시지 1 / 12

|                |     |
|----------------|-----|
| Imperial Beach | 3.0 |
| Beaverton      | 4.0 |
| Matchosin      | 0.0 |
| Los Angeles    | 1.0 |
| La Cruz        | 5.0 |
| Shawnee        | 5.0 |
| Port Orchard   | 1.0 |
| Downey         | 2.0 |
| Milwaukee      | 2.0 |
| Richmond       | 4.0 |

준비 메시지 2 / 12



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



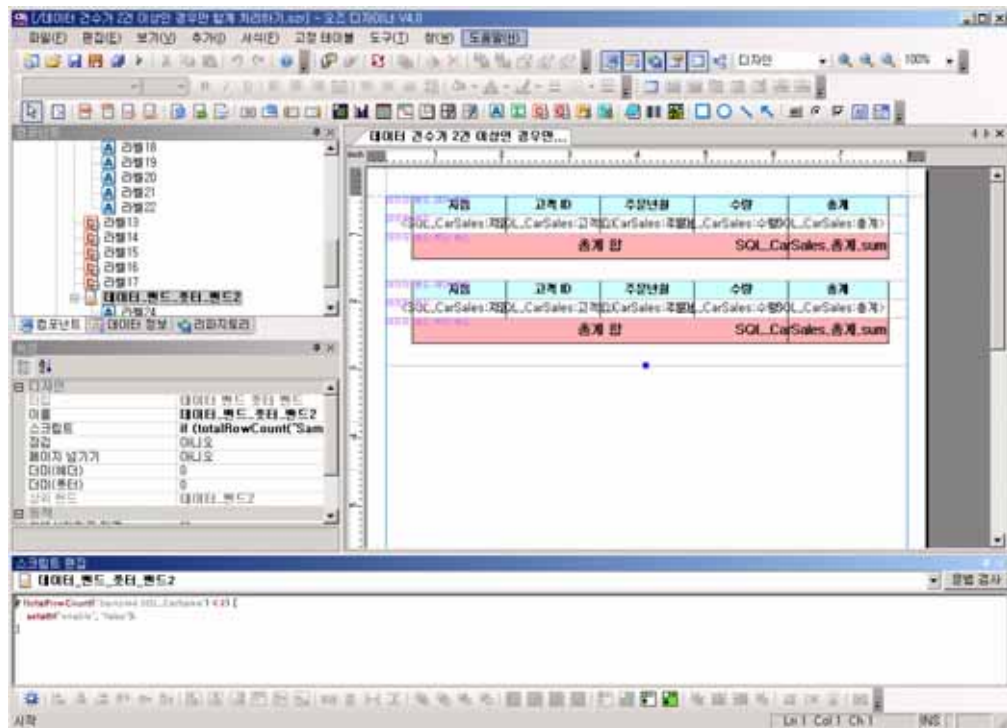
The screenshot shows a window titled "OZ 뷰어" (OZ Viewer) with a menu bar containing "파일(F)", "보기", and "도움말(H)". Below the menu is a toolbar with various icons and a search bar. The main content area displays a table with the following data:

| Iname       | gender | city          | total_children | yearly_Income   |
|-------------|--------|---------------|----------------|-----------------|
| Lowell      | 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   |

At the bottom of the window, there is a status bar with the text "준비" (Ready) on the left, "메시지" (Message) in the center, and "1 / 1" on the right.

가 2

가



— — — 2 가 2

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

가

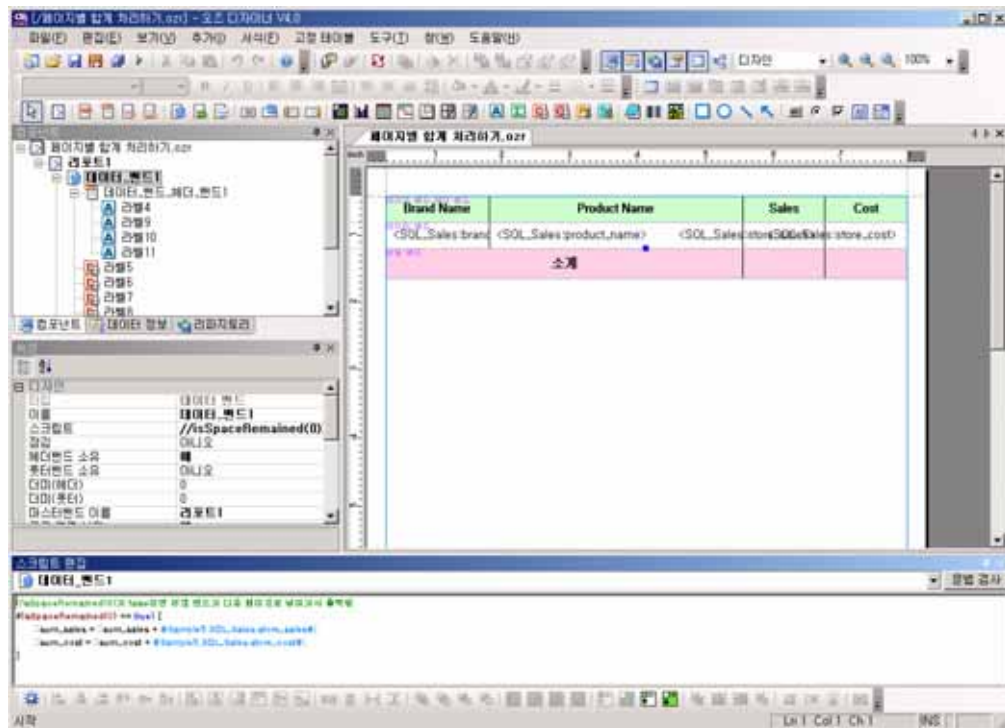
The screenshot shows a web application window titled 'OZ 뷰어' (OZ Viewer). It contains two tables of order data. The first table has a red header row and a red footer row. The second table has a blue header row and a blue footer row. Both tables show order details for '강북' (Gangbuk) with a total amount of 700,000.0.

| 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

**OZ 뷰어**

파일(F) 보기 도움말(H)

| Product     | Description                     | Cost         | Price          |
|-------------|---------------------------------|--------------|----------------|
| Blue Label  | Blue Label Fancy Canned Oysters | 2.2100       | .9232          |
| Fabulous    | Fabulous Cola                   | 1.7800       | .8934          |
| High Top    | High Top Baby Onion             | 3.4500       | 1.4145         |
| Best Choice | Best Choice Cheese Dip          | 3.5500       | 1.3135         |
| Better      | Better Fancy Canned Clams       | 4.2200       | 1.5614         |
| 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       | 1.1933         |
| Red Wing    | Red Wing 100 Watt Lightbulb     | 1.5400       | .5032          |
| Club        | Club Head Cheese                | 2.9400       | .9114          |
| Mama        | Mama Cole Slaw                  | 4.8800       | 2.1438         |
| <b>소개</b>   |                                 | <b>96.43</b> | <b>34.5357</b> |

준비 메시지

| Product   | Description           | Cost          | Price          |
|-----------|-----------------------|---------------|----------------|
| Golden    | Golden Frozen Corn    | 5.4800        | 2.7150         |
| Red Wing  | Red Wing Large Sponge | 2.9200        | 1.1972         |
| <b>소개</b> |                       | <b>122.25</b> | <b>48.8758</b> |

준비 메시지

10

10

가 10

가

```

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

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

/* */
int repeatnum; //

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 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.odinames", " ");
setLinkOption("odi. .pcount", "1");
setLinkOption("odi. .args1", "CustID="+ (string)#CustomerID#);

```

#### ■ ) 가

```

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

```

#### ■ ) 가 , 가

```

setLinkServer("211.116.251.115", 8003, " .ozr");
setLinkOption("displayname", #CustomerName# + " ");
setLinkOption("odi.odinames", " ");
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);
```

i ,  
.  
가 .

```
int i;
i=#OZFormParam.cond#;
if (i==1){
setattr("caption","http://localhost/web.gif");
}
else if (i==2) {
setattr("drawtype","Label");
setattr("caption","JVM Download file - Press double click this band");
setLinkURL("http://localhost/msjavx86_3802.exe","_self");
}
```

가 가  
.  
가 .

```
int i,t;
i=#tODI.DS.evaluate#;
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**

String

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_unitofticks_y1", "5");
setattr("Chart_unitofticks_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 gt\_fromDate, gt\_toDate  
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");
```