

Dynamic Internal table

1.

SAP Release 640

RTTS 가

. : -> -> -> 
 . [1] SAP_BASIS 640 RTTS



소프트웨어 구성요소	릴리스	레벨	최상위 지원 패키지	소프트웨어 구성요소의 간단한 내역
SAP_BASIS	640	00 2	SAPKB64012	SAP Basis Component
SAP_ABA	640	0012	SAPKA64012	Cross-Application 구성요소
ST-PI	2005_1_640	0000	-	SAP Solution Tools Plug-In
PI_BASIS	2004_1_640	0007	SAPKIPY167	Basis Plug-In (PI_BASIS) 2004_1_640
SAP_BW	350	0012	SAPKW35012	Business Information Warehouse
SAP_APPL	500	0008	SAPKH50008	물류 및 회계
SAP_HR	500	0010	SAPKE50010	인사 관리
PI	2004_1_500	0006	SAPKIPZ166	PI 2004_1_500 : Add-On Delta Upgrade

[1]

RTTS

가

[1]

```
REPORT z_dynamic_01.

PARAMETER p_type(20) TYPE c.

DATA: dref1 TYPE REF TO data.

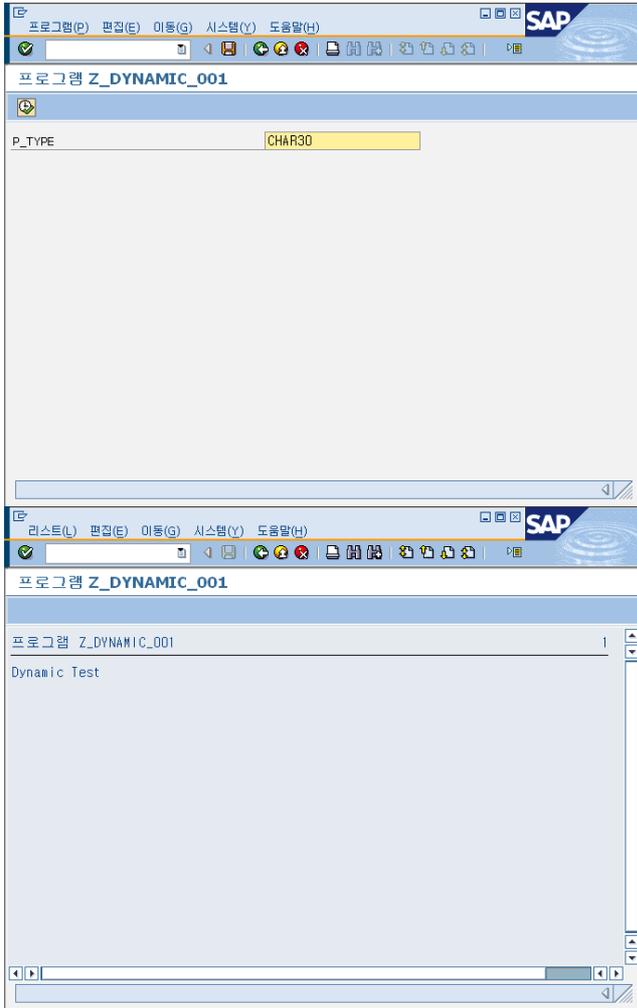
FIELD-SYMBOLS: <fs1> TYPE ANY.

CREATE DATA dref1 TYPE (p_type).

ASSIGN dref1->* TO <fs1>.
```

```
<fs1> = 'Dynamic Test'.
WRITE / <fs1>.
```

```
[ 1]
[ 1]          CHAR30          'Dynamic Test'
[ 1]
```

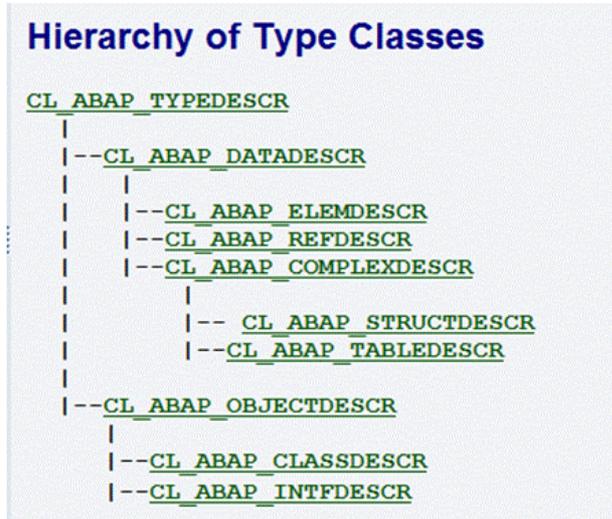


, CREATE DATA dref1TYPE (p_type)
(Dereference)
가 가
가 가 Dereference
, ASSIGN dref1->* TO <fs1>. Assign

Dereference(=Assign)가 SY-SUBRC 0 , 4 ' -
>*' Dereferencing Operator . easy abap 13 Field
Symbol & Data Reference .

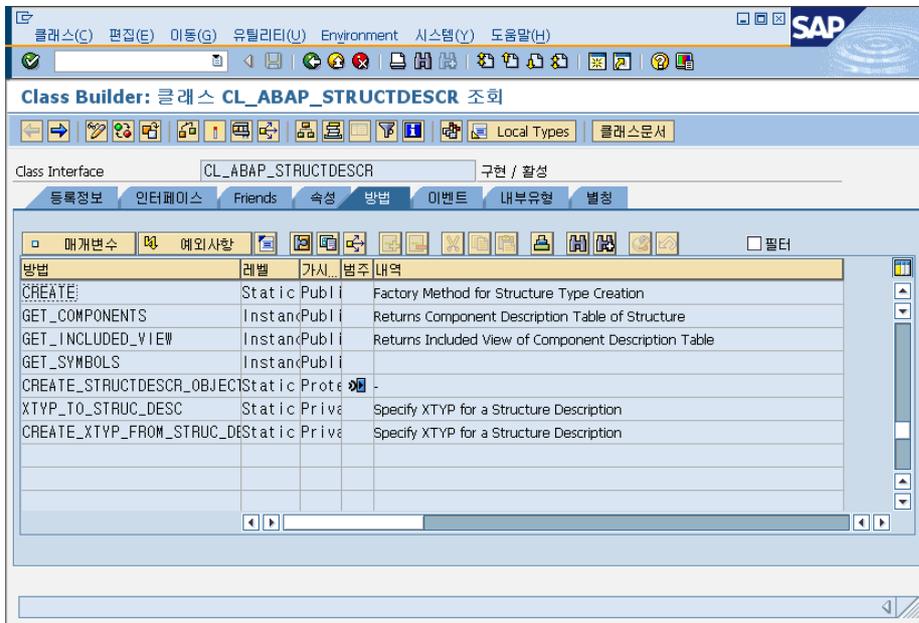
2.

RTTS
CL_ABAP_STRUCTDESCR CREATE
[2] TYPE



[2 TYPE]

T-CODE:SE24(Class Builder) CL_ABAP_STRUCTDESCR ()
CREATE



[3 CREATE]

□ 매개변수

, 3 가

P_COMPONENTS

매개변수	유형	값	선	타자	참조유형	기본값
P_COMPONENTS	Importing	<input type="checkbox"/>	<input type="checkbox"/>	Type	COMPONENT_TABLE	
P_RESULT	Returning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Type Ref	CL_ABAP_STRUCTDESCR	
P_STRICT	Importing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Type	ABAP_BOOL	TRUE
		<input type="checkbox"/>	<input type="checkbox"/>	Type		

[4 CREATE]

ABAP CREATE

```
CALL METHOD cl_abap_structdescr=>create
EXPORTING
  p_components = ' '
RECEIVING
  p_result = ' '
ENDMETHOD.
```

```
' '
= cl_abap_structdescr=>create( p_components = ' ' ).
```

P_components 4 가

length	I	TYPE C, P, N
decimals	I	TYPE P
type_kind	ABAP_TYPEKIND (TYPE C LENGTH 1)	
name	ABAP_COMPNAME (TYPE C LENGTH 30)	

[1 CREATE P_componets]

[1] 10 TYPE C
CL_ABAP_ELEMDSCR GET_C
가 'GET_' + ABAP
, TYPE I GET_I, TYPE P GET_P

```
CALL METHOD cl_abap_elemdscr=>get_c
EXPORTING
  p_length = 10
RECEIVING
  p_result = ' '
ENDMETHOD.
```

CL_ABAP_STRUCTDESCR

. HANDLE

RTTS 가

```
CREATE DATA lr_wa TYPE HANDLE lr_structdescr.
```

ASSIGN RTTS

가

```
ASSIGN lr_wa->* TO <fs_wa>.
```

write

. [

2]

column_1 ,

column_2

[2]

```
REPORT z_dynamic_02.
```

```
TYPE-POOLS: abap.
```

```
DATA: lr_structdescr TYPE REF TO cl_abap_structdescr,  
      lr_datadescr   TYPE REF TO cl_abap_datadescr,  
      lt_comp        TYPE abap_component_tab,  
      ls_comp        TYPE abap_componentdescr,  
      lr_wa          TYPE REF TO data.
```

```
DATA : lv_idx TYPE n LENGTH 2.
```

```
FIELD-SYMBOLS: <fs_field> TYPE ANY.
```

```
FIELD-SYMBOLS: <fs_wa> TYPE ANY.
```

```
PARAMETER p_cnt TYPE i.
```

```
START-OF-SELECTION.
```

- 1 DO p_cnt TIMES.
 lv_idx = lv_idx + 1.
- 2 CONCATENATE 'column' lv_idx INTO ls_comp-name
 SEPARATED BY '_'.
 |
- 3 CALL METHOD cl_abap_elemdescr=>get_i
 RECEIVING
 p_result = ls_comp-type.
- 4 INSERT ls_comp INTO TABLE lt_comp.
 ENDDO.
- 5 CALL METHOD cl_abap_structdescr=>create
 EXPORTING
 p_components = lt_comp
 RECEIVING
 p_result = lr_structdescr.
- 6 CREATE DATA lr_wa TYPE HANDLE lr_structdescr.

7

ASSIGN lr_wa->* TO <fs_wa>.

DO p_cnt TIMES.

DO.

8

ASSIGN COMPONENT sy-index
OF STRUCTURE <fs_wa> TO <fs_field>.
IF sy-subrc NE 0. EXIT. ENDIF.
<fs_field> = sy-index.

ENDDO.

ENDDO.

DO.

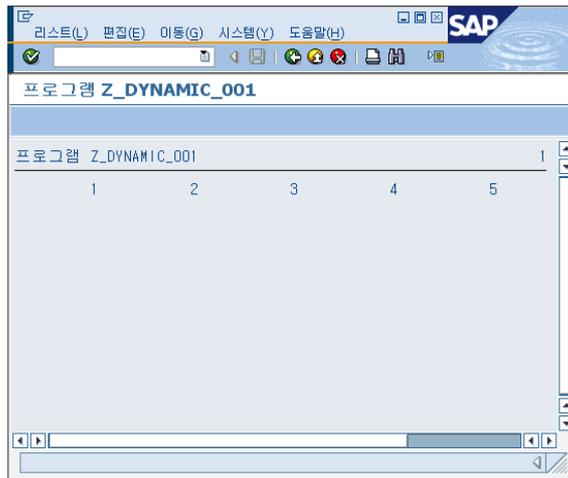
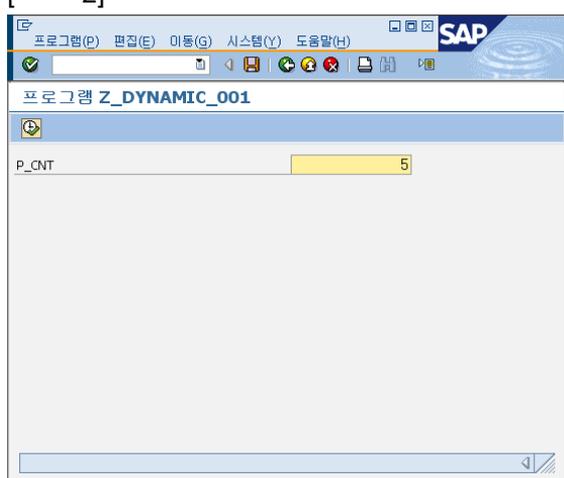
9

ASSIGN COMPONENT sy-index
OF STRUCTURE <fs_wa> TO <fs_field>.

IF sy-subrc IS NOT INITIAL. EXIT. ENDIF.
WRITE <fs_field>.

ENDDO.

[2]



1. 가 DO .
2. CONCATENATE COLUMN_1 .
3. sy-index DO 가 .
4. GET_I I .
5. CREATE lt_comp .
6. 가 .
7. lr_wa .
8. ASSIGN COMPONENT .
9. .

ASSIGN COMPONENT

ASSIGN

comp line

ASSIGN COMPONENT comp OF STRUCTURE struc TO <fs>.

3.

RTTS

CREATE **CL_ABAP_TABLEDESCR** [2] RTTS

```
lr_datadescr = lr_structdescr.  
  
CALL METHOD cl_abap_tabledescr=>create  
  EXPORTING  
    p_line_type = lr_datadescr  
  RECEIVING  
    p_result = lr_tabledescr .
```

[2] , Z_DYNAMIC_02 Z_DYNAMIC_03
BOLD 가

[3]

```
REPORT z_dynamic_03.  
  
TYPE-POOLS: abap.  
  
DATA: lr_structdescr TYPE REF TO cl_abap_structdescr,  
      lr_tabledescr  TYPE REF TO cl_abap_tabledescr,  
      lr_datadescr   TYPE REF TO cl_abap_datadescr,  
      lt_comp        TYPE abap_component_tab,  
      ls_comp        TYPE abap_componentdescr,  
      lr_wa          TYPE REF TO data,  
      lr_tab         TYPE REF TO data.  
  
DATA : lv_idx TYPE n LENGTH 2.  
  
FIELD-SYMBOLS: <fs_field> TYPE ANY.  
FIELD-SYMBOLS: <fs_wa>    TYPE ANY.  
FIELD-SYMBOLS: <fs_tab>   TYPE table.  
  
PARAMETER p_cnt TYPE i.  
  
START-OF-SELECTION.  
  
DO p_cnt TIMES.  
  lv_idx = lv_idx + 1.  
  CONCATENATE 'column' lv_idx INTO ls_comp-name  
  SEPARATED BY '_'.  
  
  CALL METHOD cl_abap_elemdescr=>get_i  
    RECEIVING
```

```

        p_result = ls_comp-type.

    INSERT ls_comp INTO TABLE lt_comp.
ENDDO.

CALL METHOD cl_abap_structdescr=>create
    EXPORTING
        p_components = lt_comp
    RECEIVING
        p_result      = lr_structdescr.

CREATE DATA lr_wa TYPE HANDLE lr_structdescr.
ASSIGN lr_wa->* TO <fs_wa>.

    lr_datadescr = lr_structdescr.

CALL METHOD cl_abap_tabledescr=>create
    EXPORTING
        p_line_type = lr_datadescr
    RECEIVING
        p_result     = lr_tabledescr .

CREATE DATA lr_tab TYPE HANDLE lr_tabledescr.
ASSIGN lr_tab->* TO <fs_tab>.

DO p_cnt TIMES.
    DO.
        ASSIGN COMPONENT sy-index OF STRUCTURE <fs_wa> TO <fs_field>.
        IF sy-subrc NE 0.           EXIT.           ENDIF.
        <fs_field> = sy-index.
    ENDDO.
    APPEND <fs_wa> TO <fs_tab>.
ENDDO.

LOOP AT <fs_tab> INTO <fs_wa>.
    DO.
        ASSIGN COMPONENT sy-index OF STRUCTURE <fs_wa>
            TO <fs_field>.

        IF sy-subrc IS NOT INITIAL. EXIT. ENDIF.
        WRITE <fs_field>.

    ENDDO.

    WRITE / .
ENDLOOP.

```

[3]

