


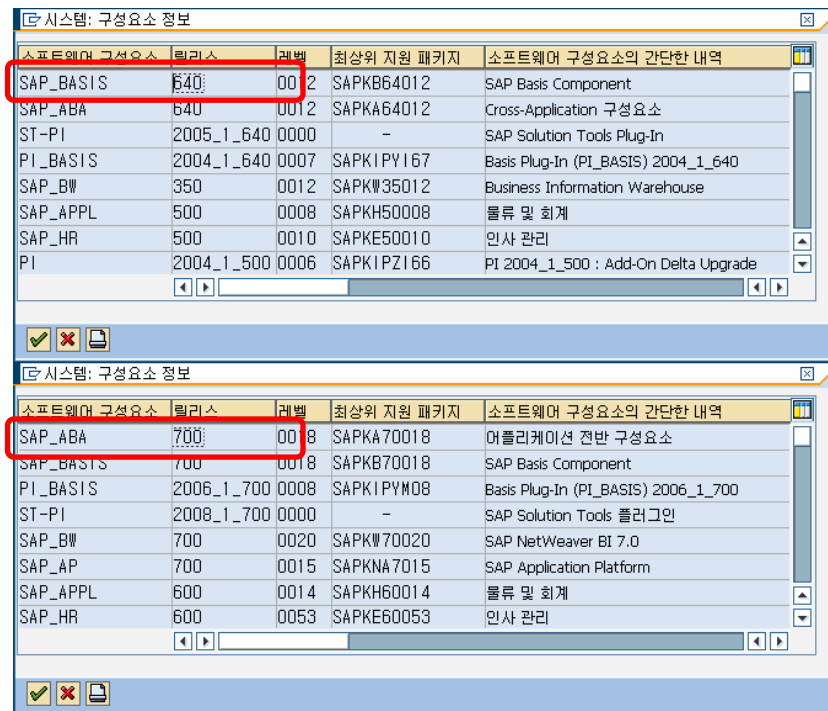
Dynamic Internal table

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 |

| 소프트웨어 구성요소 | 릴리스 | 레벨 | 최상위 지원 패키지 | 소프트웨어 구성요소의 간단한 내역 |
|------------|------------|------|------------|-------------------------------------|
| SAP_ABA | 700 | 00 8 | SAPKA70018 | 어플리케이션 전반 구성요소 |
| SAP_BASIS | 700 | 0018 | SAPKB70018 | SAP Basis Component |
| PI_BASIS | 2006_1_700 | 0008 | SAPKIPYM08 | Basis Plug-In (PI_BASIS) 2006_1_700 |
| ST-PI | 2008_1_700 | 0000 | - | SAP Solution Tools 플러그인 |
| SAP_BW | 700 | 0020 | SAPKW70020 | SAP NetWeaver BI 7.0 |
| SAP_AP | 700 | 0015 | SAPKNA7015 | SAP Application Platform |
| SAP_APPL | 600 | 0014 | SAPKH60014 | 물류 및 회계 |
| SAP_HR | 600 | 0053 | SAPKE60053 | 인사 관리 |

[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.

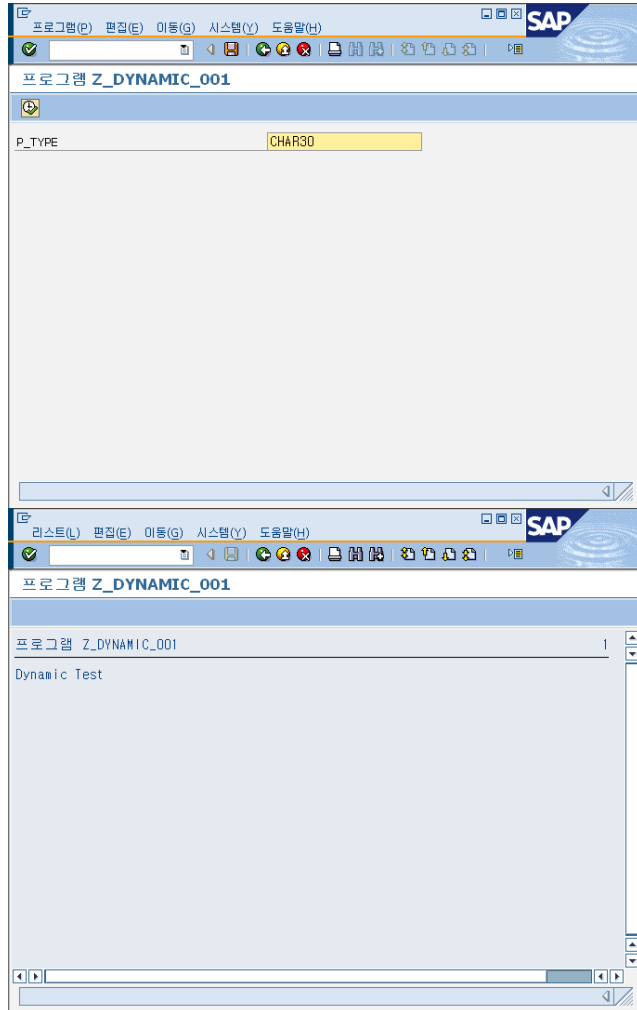
CREATE DATA dref1 TYPE (p_type).

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

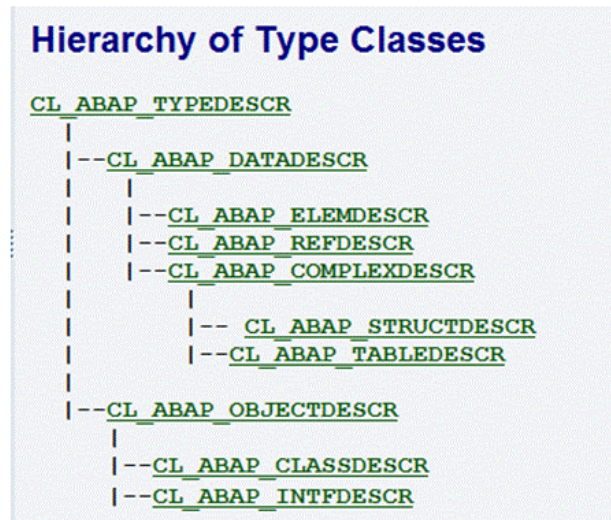
```
, ASSIGN dref1->* TO <fs1>.
```

Assign

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

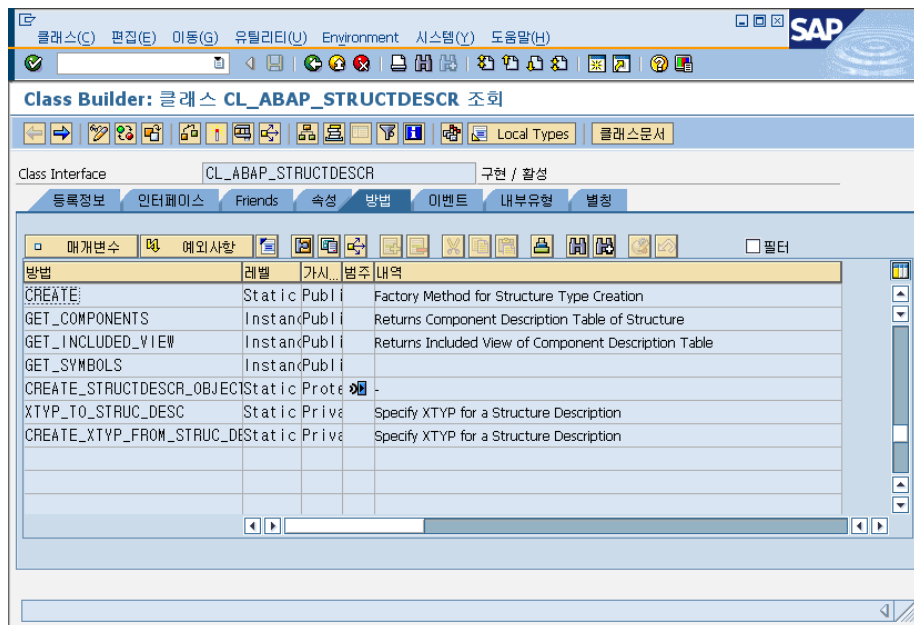
2.

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

| Class Interface | | CL_ABAP_STRUCTDESCR | | 구현 / 활성 | |
|-----------------|-----------|-------------------------------------|-------------------------------------|----------|---------------------|
| 등록정보 | 인터페이스 | Friends | 속성 | 방법 | 이벤트 |
| 방법매개변수 | CREATE | | | | |
| ← 방법 | 예외사항 | | | | |
| 매개변수 | 유형 | 값... | 선... | 타자 | 참조유형 |
| 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 |
| | | <input type="checkbox"/> | <input type="checkbox"/> | Type | TRUE |

[4 CREATE]

ABAP CREATE

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

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

P_componets 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_ELEMDESCR GET_C
가 'GET_' + ABAP
, TYPE I GET_I, TYPE P GET_P

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

```

CL_ABAP_STRUCTDESCR
RTTS
가
. HANDLE

```

```

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.
2   lv_idx = lv_idx + 1.
3   CONCATENATE 'column' lv_idx INTO ls_comp-name
   SEPARATED BY '_'.
4   CALL METHOD cl_abap_elemdescr=>get_i
   RECEIVING
     p_result = ls_comp-type.
5   INSERT ls_comp INTO TABLE lt_comp.
   ENDDO.
6   CALL METHOD cl_abap_structdescr=>create
   EXPORTING
     p_components = lt_comp
   RECEIVING
     p_result     = lr_structdescr.
7   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.
```

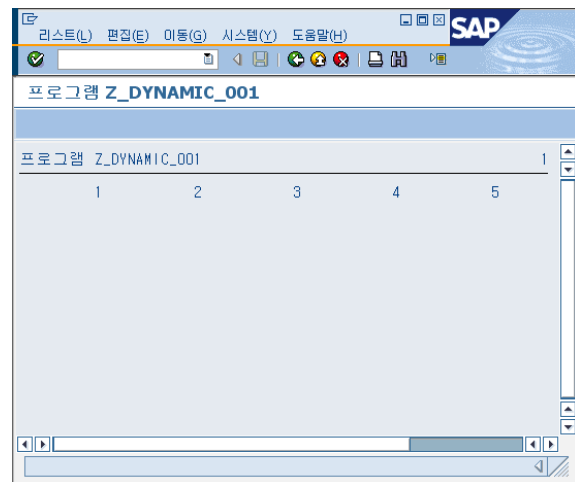
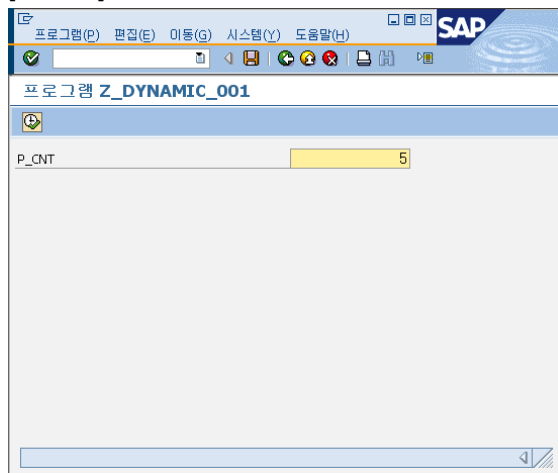
9

```
    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

2. CONCATENATE

```
sy-index DO
```

3. GET_I

4. CREATE

가 .

5. .

6. RTTS lr_wa .

7. .

8. ASSIGN COMPONENT

9. .

DO

COLUMN_1

가 .

I .

lt_comp

ASSIGN COMPONENT

ASSIGN

comp

line

ASSIGN COMPONENT comp OF STRUCTURE struc TO <fs>.

3.

RTTS

CL_ABAP_TABLEDESCR

CREATE

[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]

