



SAP NEWS

Change Variant Content Dynamically

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How program demonstrate how to change the content of variant at run time.



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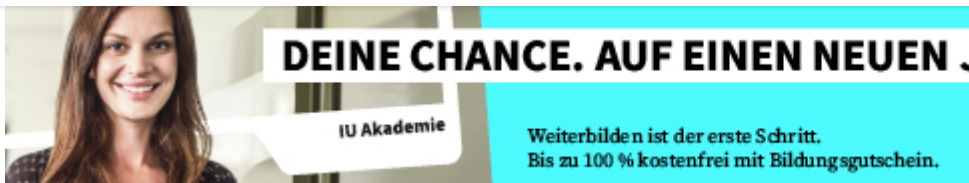
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```

5  *& This demo program shows how to dynamically populate the data in a *&
6  *& variant.                                                         *&
7  *&                                                                    *&
8  *& Author:  ABAPCOOKBOOK                                           *&
9  *& Website: www.abapcookbook.com                                    *&
10 *****
11
12 *****
13 * DATA DECLARATIONS                                              *
14 *****
15 *Tables:
16 TABLES:
17     vbap.
18
19 *Internal tables:
20 DATA:
21     gt_vbap                TYPE STANDARD TABLE OF vbap,
22     gt_vari                TYPE STANDARD TABLE OF rsparams.
23
24 *Field Symbols:
25 FIELD-SYMBOLS:
26     <fs_vbap>              TYPE vbap.
27
28 *Structures:
29 DATA:
30     gst_vari               TYPE rsparams,
31     gst_varidesc           TYPE variid.
32
33 *Variables:
34 DATA:
35     gv_subrc               TYPE sy-subrc.
36
37 *Constants:
38 CONSTANTS:
39     gc_write               TYPE c                VALUE 'W',
40     gc_selmat              TYPE rsparams-selname  VALUE 'S_MATNR',
41     gc_kind                TYPE rsparams-kind     VALUE 'S',
42     gc_sign                TYPE rsparams-sign     VALUE 'I',
43     gc_option              TYPE rsparams-low      VALUE 'EQ'.
44
45 *****
46 * SELECTION SCREEN                                              *
47 *****

```



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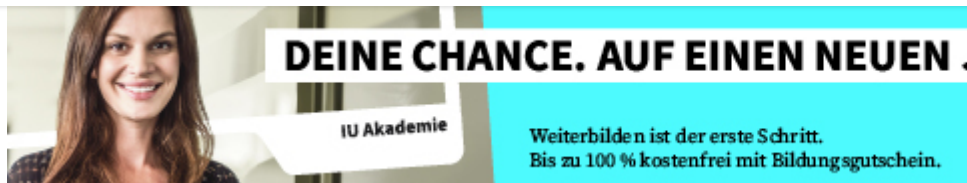
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```

54 *****
55 *Check if the variant used to run the program exists.
56 CALL FUNCTION 'RS_VARIANT_EXISTS'
57   EXPORTING
58     report           = sy-repid  "Program Name
59     variant          = sy-slset  "Variant Name
60   IMPORTING
61     r_c              = gv_subrc
62   EXCEPTIONS
63     not_authorized   = 01
64     no_report        = 02
65     report_not_existent = 03
66     report_not_supplied = 04.
67
68 IF gv_subrc EQ 0.
69
70 * Select sales order data from table VBAP.
71 SELECT * UP TO 10 ROWS
72   FROM vbap
73   INTO TABLE gt_vbap.
74
75 IF sy-subrc EQ 0.
76
77 * Retrieve the contents of the variant to the internal table 'GT_VARI'.
78 CALL FUNCTION 'RS_VARIANT_CONTENTS'
79   EXPORTING
80     report           = sy-repid  "Program Name
81     variant          = sy-slset  "Variant Name
82     move_or_write    = gc_write
83   TABLES
84     valutab          = gt_vari   "Variant Contents
85   EXCEPTIONS
86     variant_non_existent = 1
87     variant_obsolete    = 2
88     OTHERS              = 3.
89
90 IF sy-subrc EQ 0.
91
92 * Delete the current content of select option 'S_MATNR' from the variant. This is
93 * done by deleting all 'S_MATNR' selname entries from material select option(GT_VARI).
94 * We will then populate it with fresh new data later on.
95 DELETE gt_vari WHERE selname EQ gc_selmat.
96 ✓

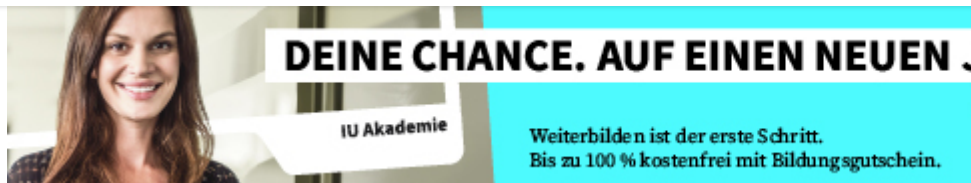
```



```

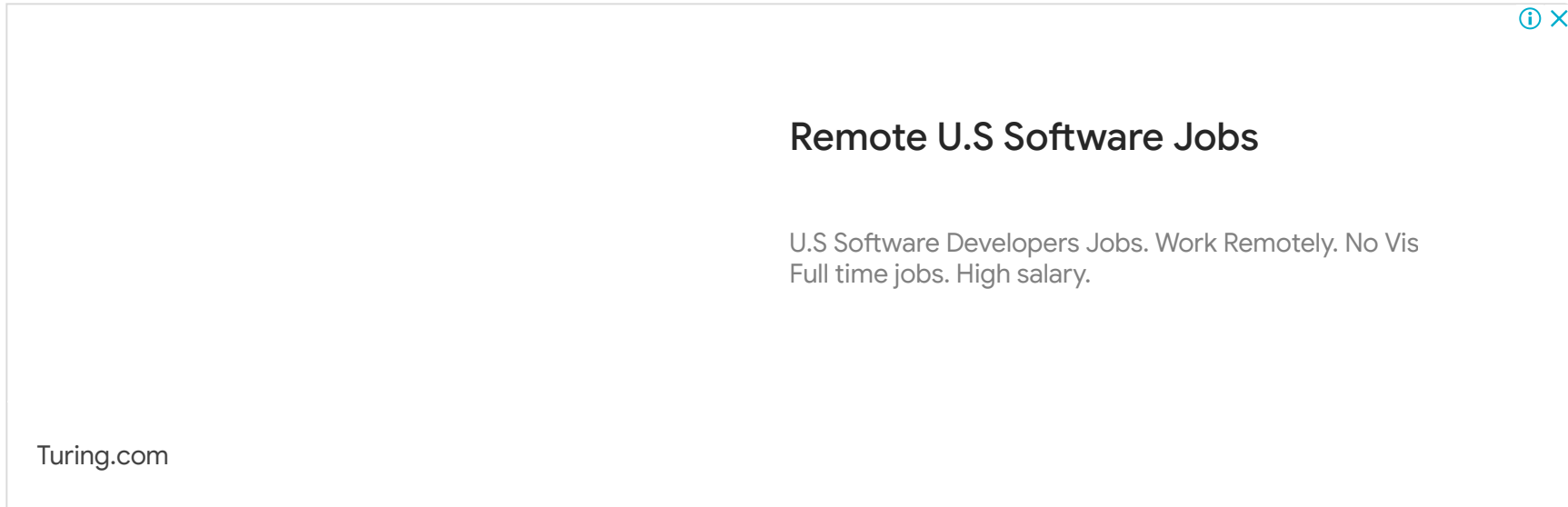
103     gst_vari-selname = gc_selmat.
104     gst_vari-kind    = gc_kind.
105     gst_vari-option  = gc_option.
106     gst_vari-sign    = gc_sign.
107     gst_vari-low     = <fs_vbap>-matnr.
108
109 *     Appending the material number to the select option.
110     APPEND gst_vari TO gt_vari.
111
112 ENDLOOP.
113
114 *     Re-populating the variant description.
115     gst_varidesc-mandt = sy-mandt.
116     gst_varidesc-aename = sy-uname.
117     gst_varidesc-aedat  = sy-datum.
118     gst_varidesc-aetime = sy-uzeit.
119
120 *     Creating a new variant with the new values.
121     CALL FUNCTION 'RS_CHANGE_CREATED_VARIANT'
122     EXPORTING
123         curr_report      = sy-repid      "Program Name
124         curr_variant     = sy-slset      "Variant Name
125         vari_desc        = gst_varidesc  "Variant Description
126     TABLES
127         vari_contents    = gt_vari      "Variant Contents
128     EXCEPTIONS
129         illegal_report_or_variant = 1
130         illegal_variantname      = 2
131         not_authorized           = 3
132         not_executed            = 4
133         report_not_existent      = 5
134         report_not_supplied      = 6
135         variant_doesnt_exist     = 7
136         variant_locked           = 8
137         selections_no_match      = 9
138     OTHERS                    = 10.
139
140 IF sy-subrc EQ 0.
141
142 *     Variant has been populated with new data successfully.
143
144 ENDIF.
145 ✓

```



Please note that to test the above program, create a variant with dummy data.

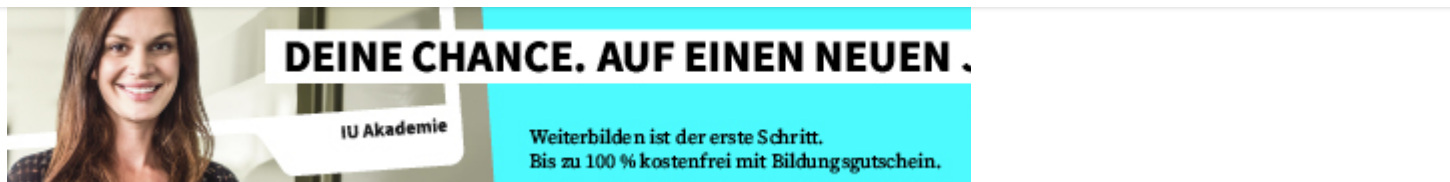
Then, just select the variant, the program will automatically change the content of the select option 'S_MATNR' based on the data retrieved from VBAP-MATNR.



Categories: ABAP, Code Sample, Tutorial By ABAPCOOKBOOK EDITOR March 13, 2017

Tags: change content of select option change content of variant populate variant with new data sample program code sap abap variant

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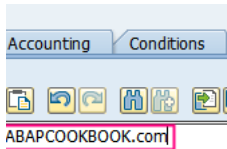
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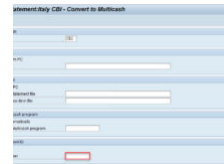
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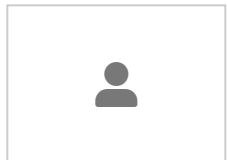
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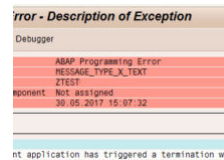
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