HOW TO IMPLEMENT EVENTS IN TABLE MAINTENANCE

Summary

This document gives a detailed description on how to implement the table maintenance events which is very helpful while creating new entries in a table. Many validations and checks can be performed while creating or saving entries in a table.

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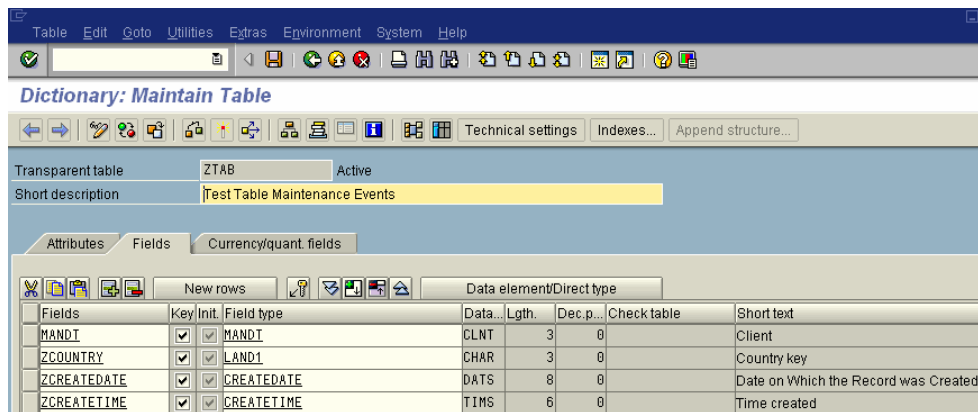
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Let us consider a scenario, where a custom table has to be updated with the created/modified date and time.

The steps for implementing the same are given below:

Step1: Create a table ZTAB with the following fields:

field	key	key	key	key	Dec	text
MANDT	X	MANDT	CLNT	3	0	Client
ZCTRY	X	LAND1	Char	3		Country Key
ZCREAETDATE	X	CREATEDATE	Dats	8		Creation/Change Date
ZCREATETIME	X	CREATETIME	Tims	6		Creation/Change Time

Step 2: Create a TABLE MAINTENANCE GENERATOR FOR THE TABLE

Utilities-> Table Maintenance Generator.

Authorization Group: &NC&

Function group: Any suitable FC Eg: ZBC420XX

Maintenance type: Two Step

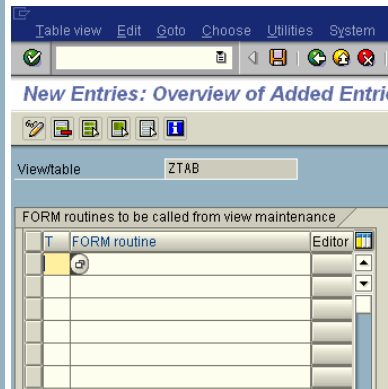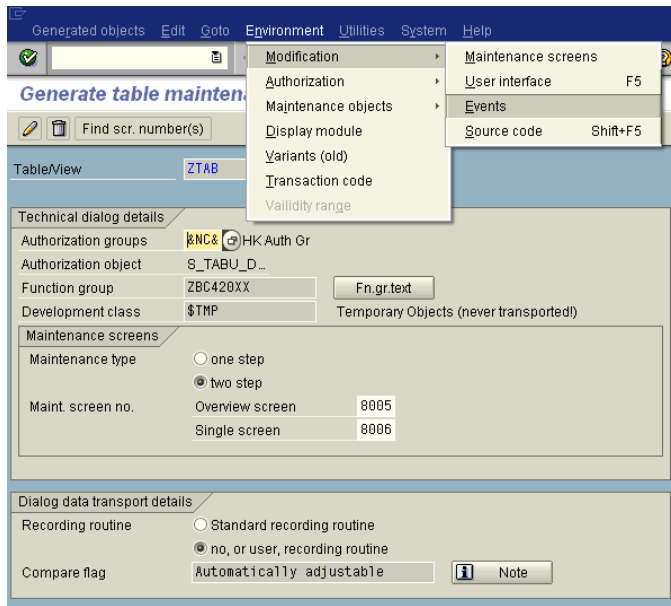Maint. screen no: Overview screen   8005

                       Single screen   8006

Create.

Step 3: Create table Maintenance Events

Table Maintenance Environment->Modification->Events-> New Entries

List of events available:

Maint. event	Short text
01	Before saving the data in the database
02	After saving the data in the database
03	Before deleting the data displayed
04	After deleting the data displayed
05	Creating a new entry
06	After completely performing the function 'Get original'
07	Before correcting the contents of a selected field
08	After correcting the contents of a selected field
09	After getting the original of an entry
10	After creating the header entries for the change task (E071)
11	After changing a key entry for the change task (E071K)
12	After changing the key entries for the change task (E071K)
13	Exit editing (exit main function module)
14	After lock/unlock in the main function module
15	Before retrieving deleted entries
16	After retrieving deleted entries
17	Do not use. Before print: Event 26
18	After checking whether the data has changed
19	After initializing global variables, field symbols, etc.
20	after input in date subscreen (time-dep. tab./views)
21	Fill hidden fields
22	Go to long text maintenance for other languages
23	Before calling address maintenence screen
24	After restricting an entry (time-dep. tab./views)
25	Individual authorization checks

26	Before creating a list
AA	Instead of the standard data read routine
AB	Instead of the standard database change routine
AC	Instead of the standard 'Get original' routine
AD	Instead of the standard RO field read routine
AE	Instead of standard positioning coding
AF	Instead of reading texts in other languages
AG	Instead of 'Get original' for texts in other languages
AH	Instead of DB change for texts in other languages
ST	GUI menu main program name
AI	Internal use only

36 Entries found

Select **05** for an event for "Creating a new entry".

This event will be triggered while creating a new entry in SM30 or using the TCODE.

Form Name: AT_NEWENTRY (Enter key)

Double Click on the **editor.**

```
form at_newentry.

    Ztab-ZCOUNTRY     = 'India'.

    Ztab-ZCREATEDATE  = sy-datum.

    Ztab-ZCREATETIME  = sy-uzeit.
```

```
endform.
```

Create another event: 02 for "After Save"

FORM after_save.

    Ztab-mandt   = extract+0(3).

    Ztab-ZCOUNTRY   = extract+3(3)..

    Ztab-ZCREATEDATE = sy-datum.

    Ztab-ZCREATETIME = sy-uzeit.

  MODIFY ztab.

ENDFORM.   "after_save

Step 4:   **Create Transaction Code.**

Go to SE93.

Transcation code:	ZTAB
Transaction text	Test Table Maintenance Events
Transaction:	SM30, Skip first Screen
Default Values:	
VIEWNAME	ZTAB
UPDATE	X

After this when you execute the tcode ZTAB, and create a new entry, it will update the system date and time in the tabel ZTAB.

Moreover if any of the data entries are changed, it will update with the new entries.

All sorts of validations of the entries is also possible through this event creation.

Related Content

Please include at least three references to SDN documents or web pages.

Reference 1- A weblog on Extracting data in Table maintenance

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