# Spider's web

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## Events in database table maintenance view

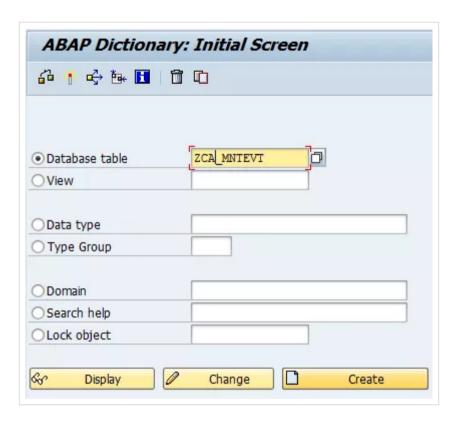
Posted on **2013-04-12** 



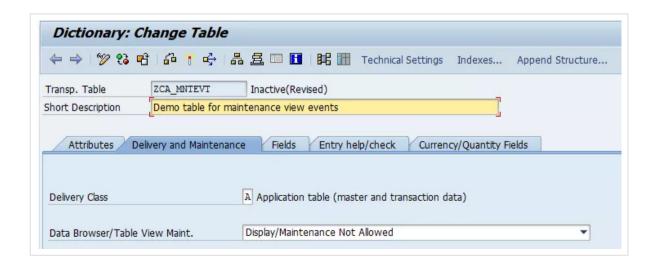
I needed to create a database table where there will be no key fields (all fields to be editable during table maintenance) but at the same time I needed some easy way how to identify each table row with unique key. And I found a solution using automatically generated GUID during row addition handled by maintenance view events.

#### Create table

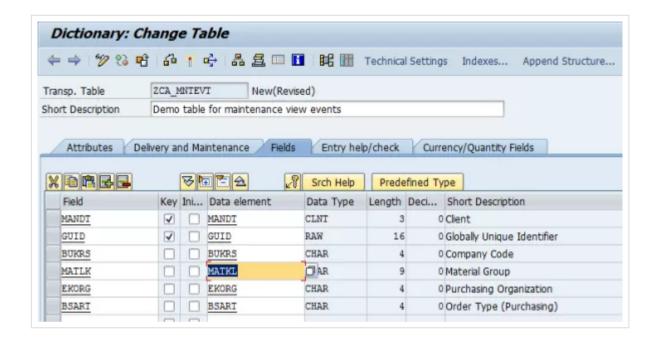
We will start from scratch so we'll design and create our database table called in our case ZCA\_MNTEVT.



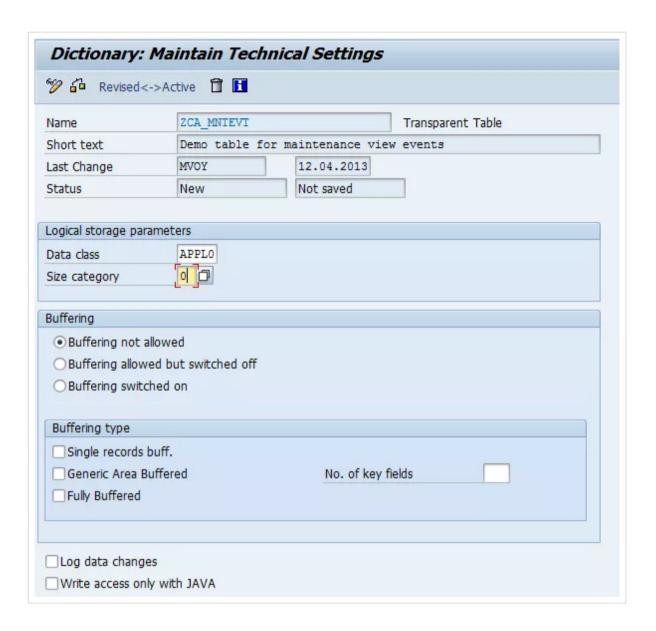
We will disallow it's display and maintenance because these actions will be performed by it's maintenance view only.



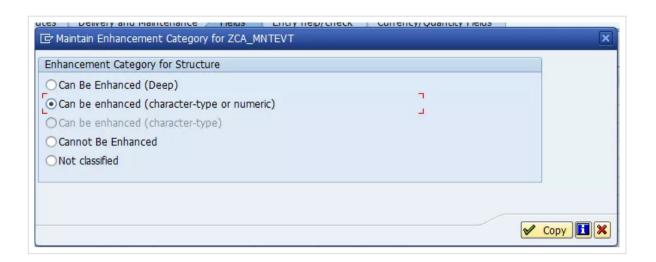
Now we add the necessary fields



... set technical settings

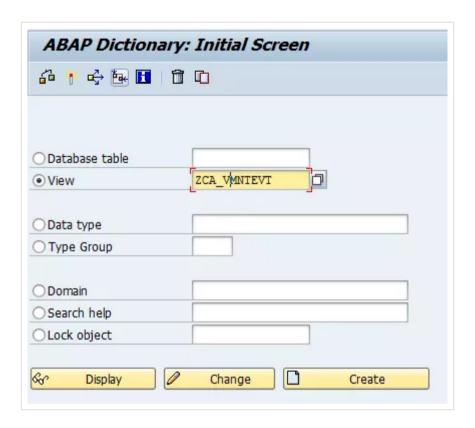


... and set enhancement category (in top menu – Extras – Enhancement category)

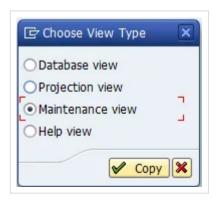


### Create table view on top of our table

We will name the view similarly to the database table, ie ZCA\_VMNTEVT.



... and create it as maintenance view

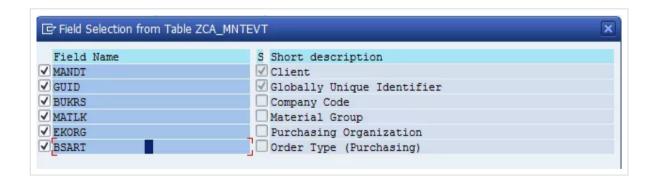


In tab *Table/Join* conditions we enter the name of our database table.

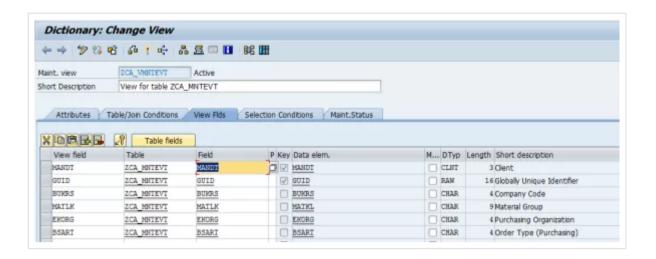


Now click on the *View Flds* tab, click on *Table fields* button and select the necessary fields (fileds you want to have in the maintenance view available to be edited)

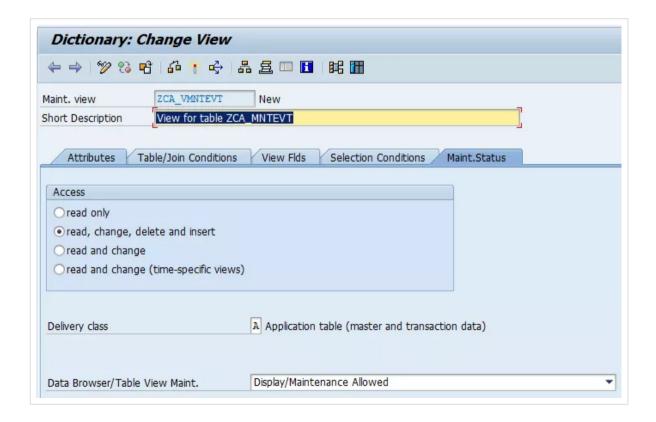
Note: We don't want the MANDT and GUID to be displayed because they will be automatically assigned/generated but we need to have them in the view so we can manipulate with data in the fields in the code.



The final look of available fields will be as on the following picture



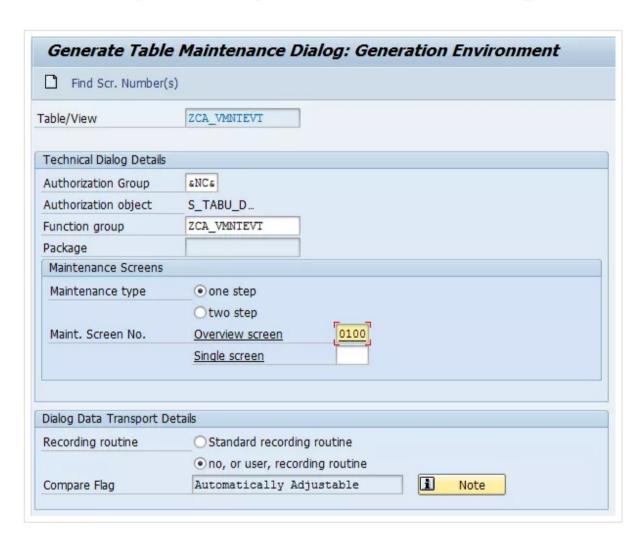
Now switch to tab Maint. Status where we'll set the required access level.



At this moment we're done with the view and we can save&activate it.

#### Create maintenance view for table view

Stay in the maintenance view screen and go to top menu – *Utilities* – *Table Maintenance Generator* where we will create *One step* maintenance type in new function group named with the same as the view: *ZCA VMNTEVT*.

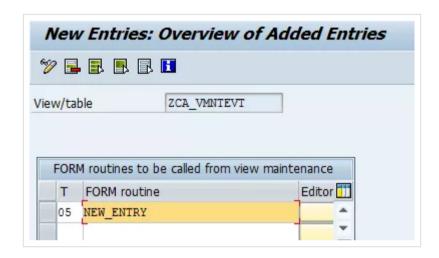


Press F6 (create) to generate code of function group *ZCA\_VMNTEVT* for the maintenance view.

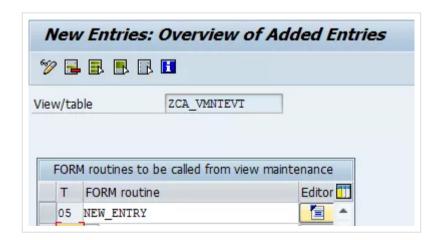
#### Add events

When the generation is completed go to top menu – *Environment* – *Modification* – *Events*, create new entry for event of row creation/addition (event #05) and assign a form name where our code will be placed.

Note: On this picture you can see all available events you can use in case you need them.



Click on the SAVE button and then on the button in the *Editor* column.



You will be asked for a new include name where the code will be placed. Enter your desired name or just confirm the suggested one.



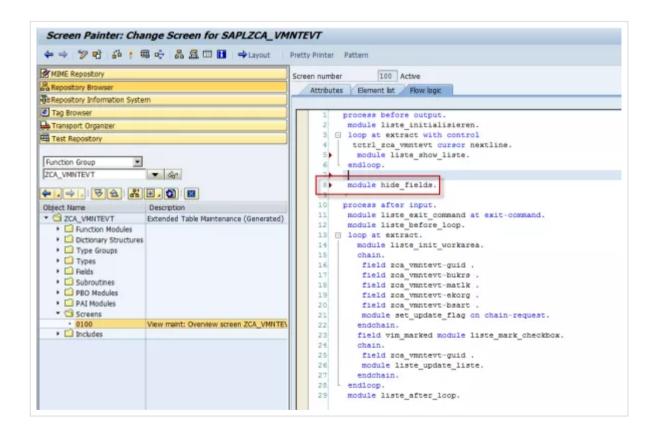
When the code editor is displayed enter the following piece of code.

Save and activate all your changes

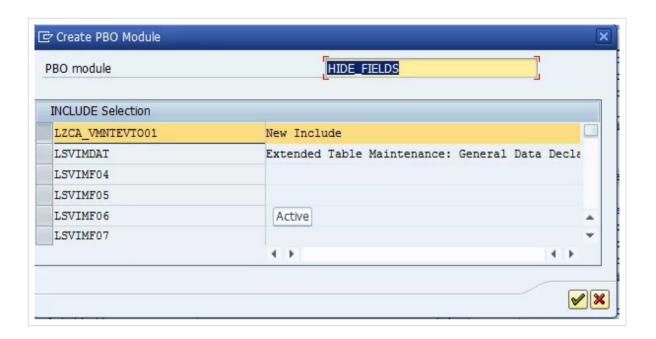
#### Modify the maintenance view

Now if you run transaction SM30 and maintain ZCA\_VMNTEVT you will see the GUID column is visible and editable. This is not what we've originally wanted. So we have to edit the maintenance view accordingly:

Run transaction SE80 and open function group ZCA\_VMNTEVT, expand the *Screens* folder, open screen *0100* and add the highlighted line into the code



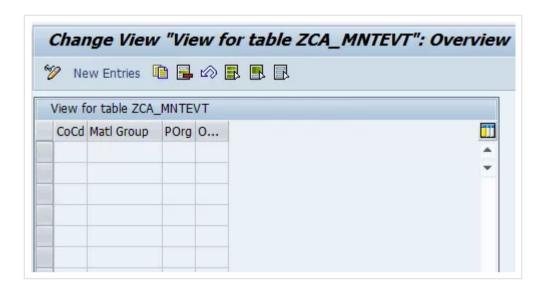
Double click on the module and you'll be prompted for another include name. Enter desired name or just confirm.



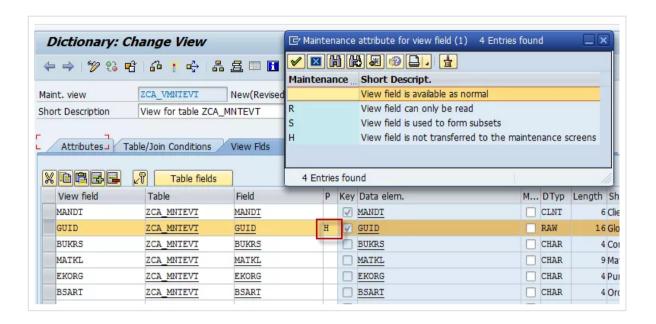
When code editor is displayed enter the following piece of code.

```
Include
          LZCA VMNTEVTO01
                                    Inactive (Revised)
            Module HIDE FIELDS OUTPUT
    □ module HIDE FIELDS output.
      field-symbols: <ls_col> type scxtab_column.
 10
 11
12 | loop at <vim_tctrl>-cols assigning <ls_col>.
if <ls_col>-screen-name eq 'ZCA VMNTEVT-GUID'.
 14
        <ls col>-invisible = '1'.
         endif.
 15
      endloop.
 16
 17
      endmodule.
                               " HIDE FIELDS OUTPUT
 18
```

Now save and activate all the changes, go to transaction *SM30* and maintain *ZCA\_VMNTEVT*. Now you can see the GUID column is not visible.



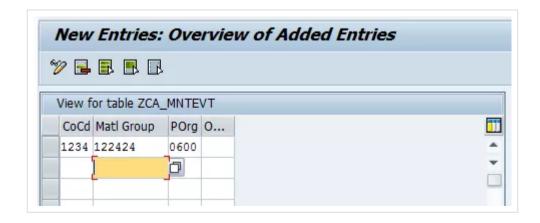
The above (hiding a column) was just to show you how you can manipulate data and look&feel of the screen programatically. The same (hiding a column of a view) can be achieved much simpler way – setting it's visibility directly in the Maintenance view:



If you now regenerate the view using Maintenance view generator, you'll achieve the same result as previously with typing the code manually.

In this specific case the second approach (setting the field attribute in the view directly) is definitely better because all manual code you put in the auto-genereated code will be removed when maintenance generator is executed again.

Now try to enter some values and save the changes.



Go to transaction SE16, open table ZCA\_MNTEVT and verify the GUID has been generated for all new rows.



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