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> Update and Create Events in Table Maintenance Gene...

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Update and Create Events in Table Maintenance Generator



former_member610990

Explorer



09-26-2019 8:54 AM



39 Kudos

INTRODUCTION:

I got the requirement to capture the Created by Created on and Updated by Updated on logs for the custom table using Table Maintenance Generator events.

Here is the step by step process to capture the table change logs.

Step 1:

Create a custom table.

Dictionary: Change Table

Transparent Table: ZTEMP_DTLS Active

Short Description: Employee Details

Attributes Delivery and Maintenance Fields Input Help/Check Currency/Quantity Fields

1 / 9

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client
EMP_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZEMP_ID	NUMC	5	0	Employee ID
EMP_NAME	<input type="checkbox"/>	<input type="checkbox"/>	ZEMP_NAME	CHAR	20	0	Name of the Employee
GENDER	<input type="checkbox"/>	<input type="checkbox"/>	YGENDER	CHAR	1	0	Gender
EMP_ADRS	<input type="checkbox"/>	<input type="checkbox"/>	ZEMP_ADRS	CHAR	35	0	Employee Address
CRID_BY	<input type="checkbox"/>	<input type="checkbox"/>	ZCRID_BY	CHAR	35	0	Created by
CRID_ON	<input type="checkbox"/>	<input type="checkbox"/>	ZCRID_ON	DEC	15	0	Created on
UPDTD_BY	<input type="checkbox"/>	<input type="checkbox"/>	ZUPDTD_BY	CHAR	35	0	Updated By
UPDTD_ON	<input type="checkbox"/>	<input type="checkbox"/>	ZUPDTD_ON	DEC	15	0	Updated on

Step 2:

Click on utilities, go to table maintenance generator.

Table Edit Goto Utilities Extras Environment System Help

Dictionary: Chan

Transparent Table: ZTE

Short Description: Em

Attributes Delivery

Field Key Ke

MANDT EMP_ID EMP_NAME GENDER EMP_ADRS CRID_BY CRID_ON UPDTD_BY UPDTD_ON

ZEMP_ID ZEMP_NAME YGENDER ZEMP_ADRS ZCRID_BY ZCRID_ON ZUPDTD_BY ZUPDTD_ON

CLNT NUMC CHAR CHAR CHAR DEC CHAR DEC

3 5 20 1 35 35 15 35 15

0 0 0 0 0 0 0 0 0

Client Employee ID Name of the Employee Gender Employee Address Created by Created on Updated By Updated on

Utilities

- Settings...
- Display Object List Ctrl+Shift+F5
- Worklist
- Add to Pool of Inactive Objects
- Display Navigation Window Ctrl+Shift+F4
- Activation Log
- Database Object
- Runtime Object
- Assign Authorization Group
- Table Maintenance Generator**
- Table Contents
- Where-Used List Ctrl+Shift+F3
- Versions

Step 3:

Enter the details of the function group, propose screen numbers and click on save, we will provide the package name.

There are two different maintenance screen types

1. one step and

2. Two step

one step

- In one step we will have only overview screen.
- Will able to see and maintain only through the overview screen.

Two step

- We will have two screens. overview screen and Single/Detail screen.
- overview screen will contain key fields and Single screen will contain all the other fields.

Generate Table Maintenance Dialog: Generation Environment

Find Scr. Number(s)

Table/View:

Technical Dialog Details

Authorization Group: w/o auth. group

Authorization object:

Function group:

Package: package

Maintenance Screens

Maintenance type: ☒ one step ☐ two step

Maint. Screen No.

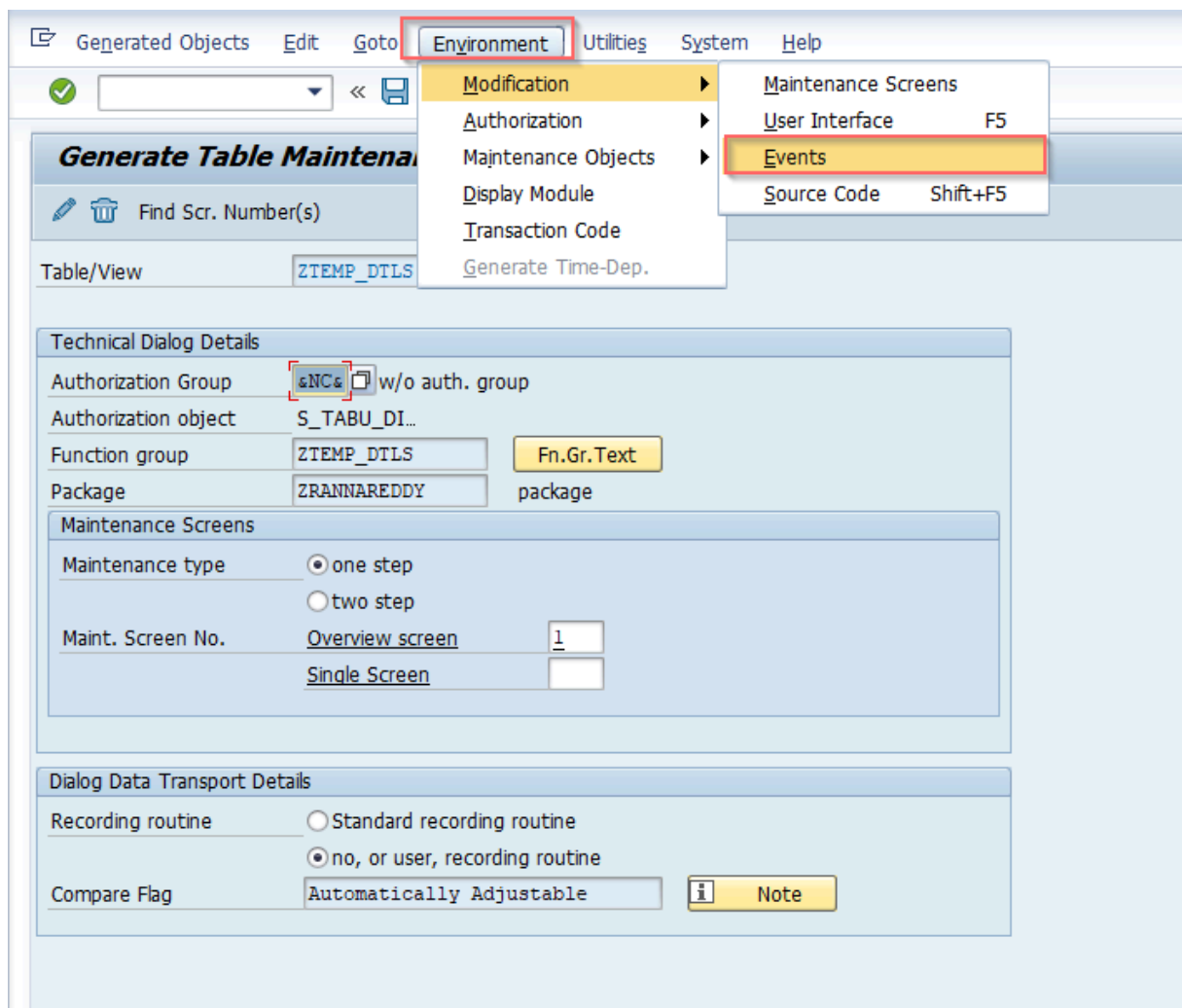
Dialog Data Transport Details

Recording routine: ☐ Standard recording routine ☒ no, or user, recording routine

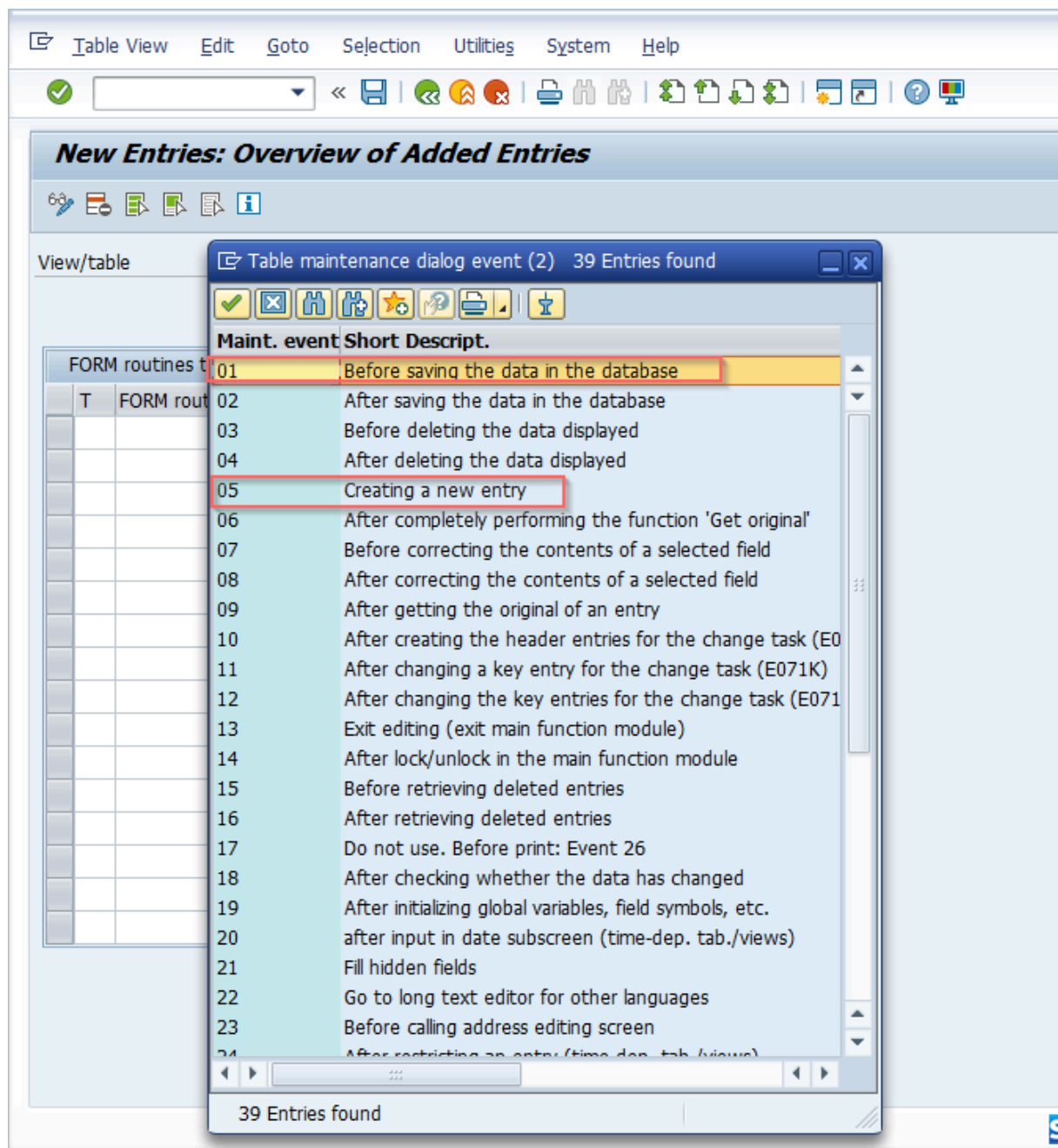
Compare Flag:

Step 4:

For TMG events, In menu Click on Environment-->Modifications-->Events

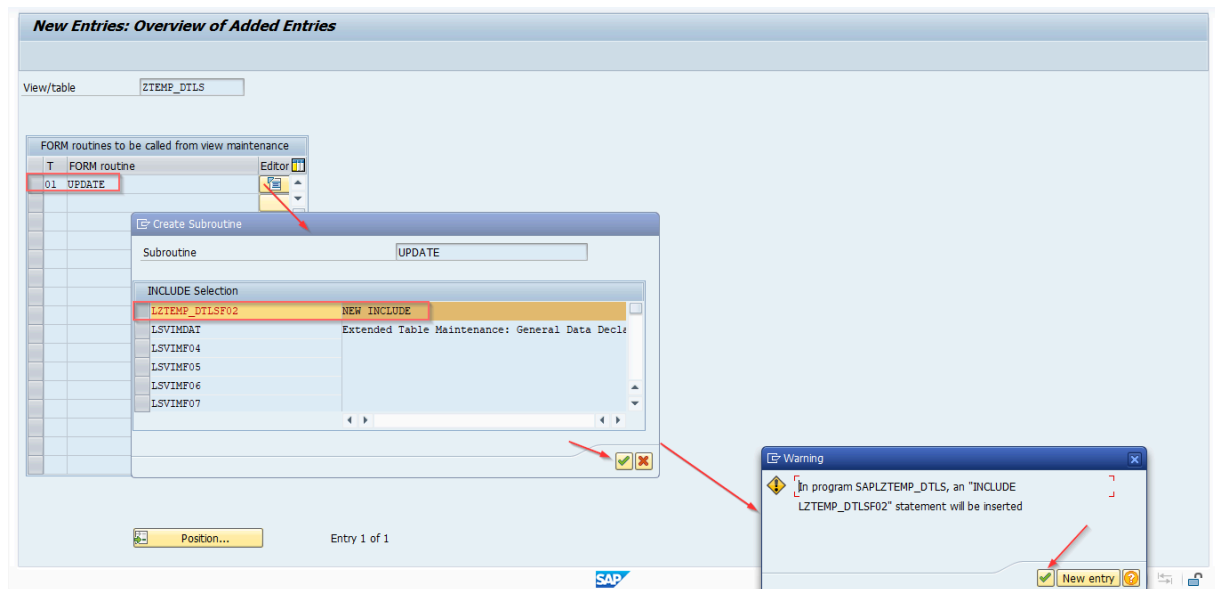


Following screen will be displayed. From the below list i have used Update and Create Events.



Update Event

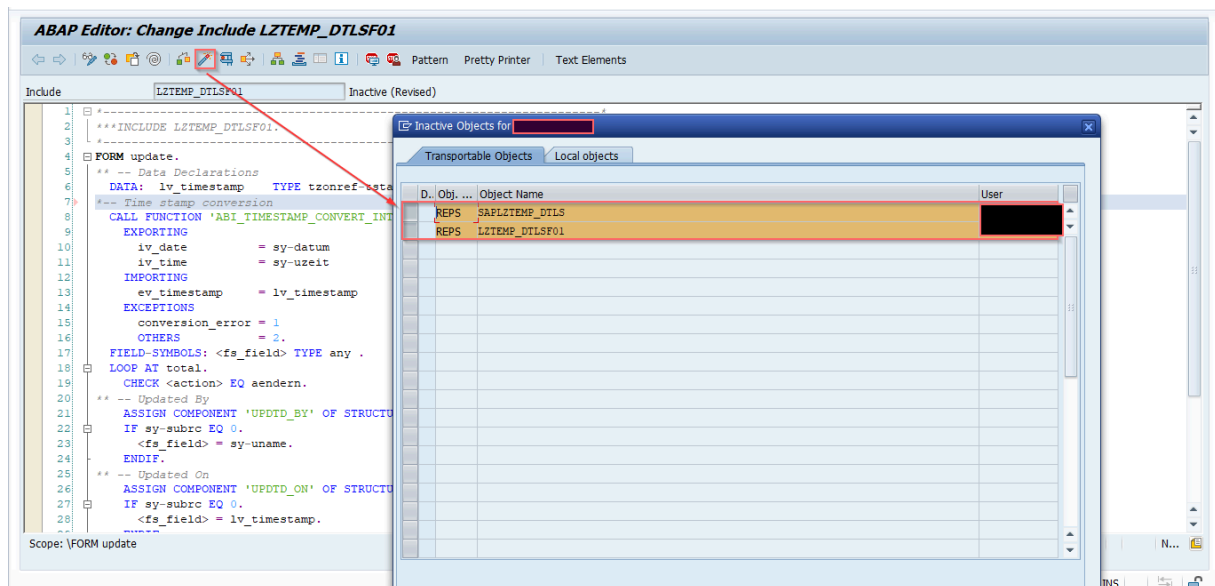
Select the Update event and press enter, the following screen will appear.



Source Code

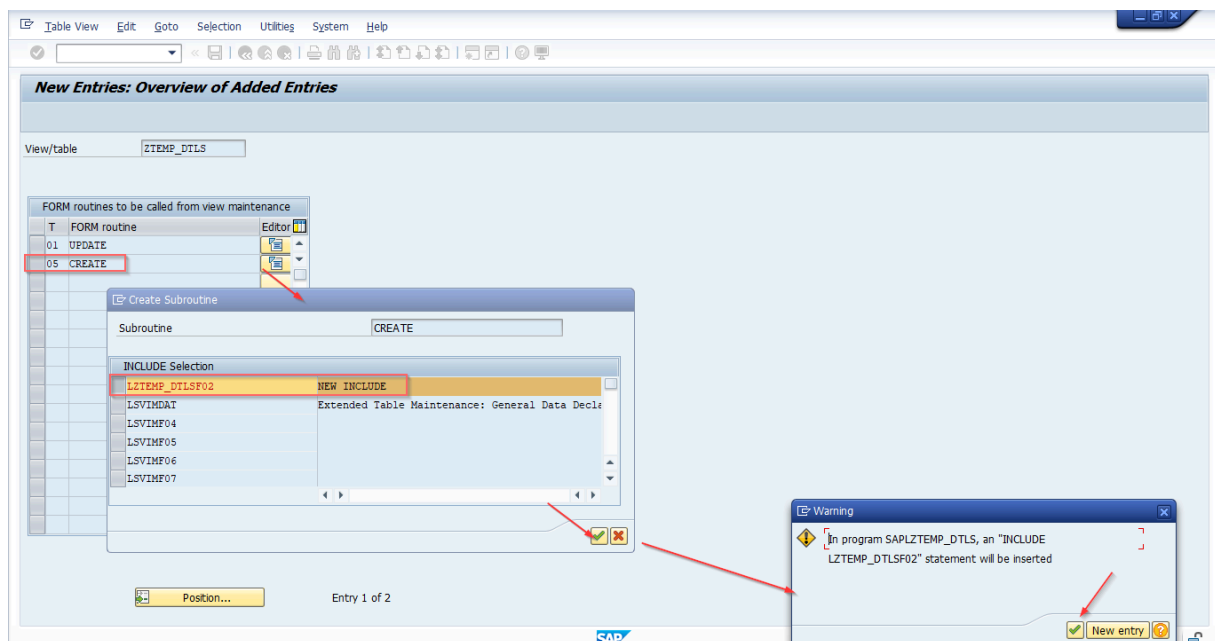
```
1  -----
2  ***INCLUDE LZTEMP_DTLSF01.
3  -----
4  FORM update.
5  ** -- Data Declarations
6  DATA: lv_timestamp TYPE tzonref-tstamps.
7  *-- Time stamp conversion
8  CALL FUNCTION 'ABI_TIMESTAMP_CONVERT_INTO'
9  EXPORTING
10 iv_date = sy-datum
11 iv_time = sy-uzeit
12 IMPORTING
13 ev_timestamp = lv_timestamp
14 EXCEPTIONS
15 conversion_error = 1
16 OTHERS = 2.
17 FIELD-SYMBOLS: <fs_field> TYPE any .
18 LOOP AT total.
19 CHECK <action> EQ aendern.
20 ** -- Updated By
21 ASSIGN COMPONENT 'UPDTD_BY' OF STRUCTURE <vim_total_struc> TO <fs_field>
22 IF sy-subrc EQ 0.
23 <fs_field> = sy-uname.
24 ENDIF.
25 ** -- Updated On
26 ASSIGN COMPONENT 'UPDTD_ON' OF STRUCTURE <vim_total_struc> TO <fs_field>
27 IF sy-subrc EQ 0.
28 <fs_field> = lv_timestamp.
29 ENDIF.
30 READ TABLE extract WITH KEY <vim_xtotal_key>.
31 IF sy-subrc EQ 0.
32 extract = total.
33 MODIFY extract INDEX sy-tabix.
34 ENDIF.
35 IF total IS NOT INITIAL.
36 MODIFY total.
37 ENDIF.
38 ENDLOOP.
39 ENDFORM.
```

Once the code is completed then we need check and activate the include. Here we need to activate the below two objects.



Create Event

Select the Create event and press enter, the following screen will appear.



Same process we have to go for the Create event.

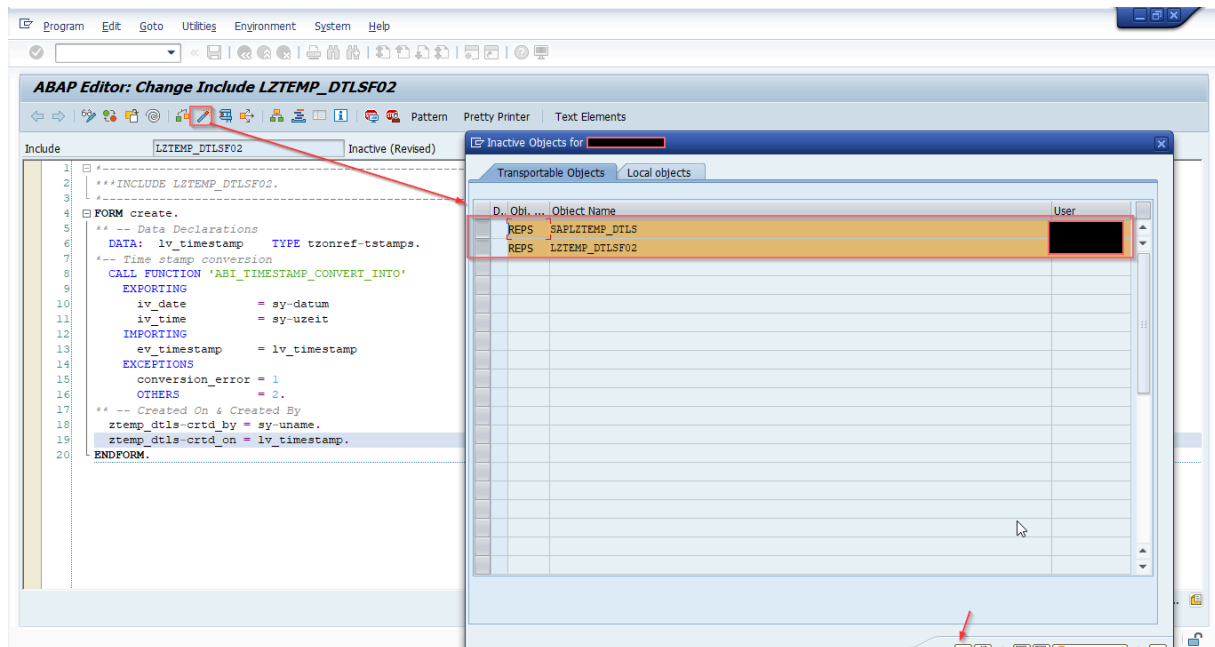
Source Code

```

1  -----
2  ***INCLUDE LZTEMP_DTLSF02.
3  -----
4  FORM create.
5  ** -- Data Declarations
6  DATA: lv_timestamp TYPE tzonref-tstamps.
7  *-- Time stamp conversion
8  CALL FUNCTION 'ABI_TIMESTAMP_CONVERT_INT0'
9  EXPORTING
10 iv_date = sy-datum
11 iv_time = sy-uzeit
12 IMPORTING
13 ev_timestamp = lv_timestamp
14 EXCEPTIONS
15 conversion_error = 1
16 OTHERS = 2.
17 ** -- Created On & Created By
18 ztemp_dtls-crtd_by = sy-uname.
19 ztemp_dtls-crtd_on = lv_timestamp.
20 ENDFORM.

```

Check and activate it.



Step 5:

Now To test the Update and Create events Go to Table maintenance generator (SM30 Tcode) and Click on maintain button as per shown below.

Table Edit Goto System Help

Find Maintenance Dialog **SM30 T Code**

Table/View ZTEMP_DTLS

Restrict Data Range

☒ No Restrictions
☐ Enter conditions
☐ Variant

Display Maintain Transport Customizing

Next, Create the data by clicking on new entries and click on save then we will able to see the Create logs.

[illegible]

[illegible]

Update the existing data then click on save, then we will be able to see the Update logs.

[illegible]

Conclusion:

By following the above steps, we are able to see the table create and update logs for a custom table, which contains the fields "Date on which record was created" and "Name of the person who created the object".

ZTEMP_DTLS: Display of Entries Found

Search in Table: ZTEMP_DTLS Employee Details

Number of hits: 3

Runtime: 0 Maximum no. of hits: 500

Details

Employee	Name of th	Gender	Emp Adrs	Created by	Created on	Updated By	Updated on
1000	TEST	X	Hyderabad	RANNAREDDY	20.190.923.150.051	RANNAREDDY	20.190.923.150.247
1001	HANA		Bangalore	RANNAREDDY	20.190.923.150.206		0
1002	SAP ABAP		Chennai	RANNAREDDY	20.190.923.150.220	RANNAREDDY	20.190.923.150.310

Thanks for reading.

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ABAP Development

Tags:

TMG Events

Update and Create events in TMG

Update Event in TMG

10 Comments



Sandra_Rossi

Active Contributor



09-26-2019 9:41 AM



2 Kudos