



SAP Validation

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1. Validation Configuration

Let us understand how Validation is set up in SAP FI component.

Scenario:-

You are an SAP FICO Consultant on a project. The project client requires you to configure a validation in transaction code FB60, so that the text field is mandatory on the basic screen.

Let us check in detail below:-

In transaction code FB60

Your project client wants the text field as mandatory (Circled below):-

The screenshot displays the SAP 'Enter Vendor Invoice' (FB60) interface for Company Code 9101. The 'Basic data' tab is active, showing the following fields:

- Vendor: 68
- Invoice date: 25.06.2014
- Posting Date: 25.06.2014
- Amount: 1,000,000
- Text: (This field is circled in red)
- Paymt terms: Due on Base Date

The Vendor address window is also visible, showing:

- Address: Axion Ltd., 32 60 feet road, 400070 MUMBAI, INDIEN
- Bank data: not available

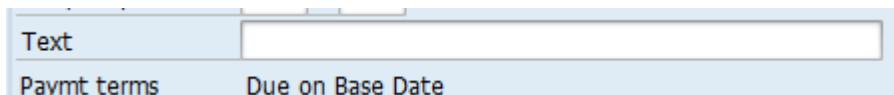
At the bottom, there is a table with 0 items (No entry variant selected):

S...	G/L acct	Short Text	D/C	Amount in doc.curr.	Loc.curr.amount	T.	Tax jurisdictn code	V	Assignment
			Debit		0,000				
			Debit		0,000				
			Debit		0.000				

This field is not the same a header text.

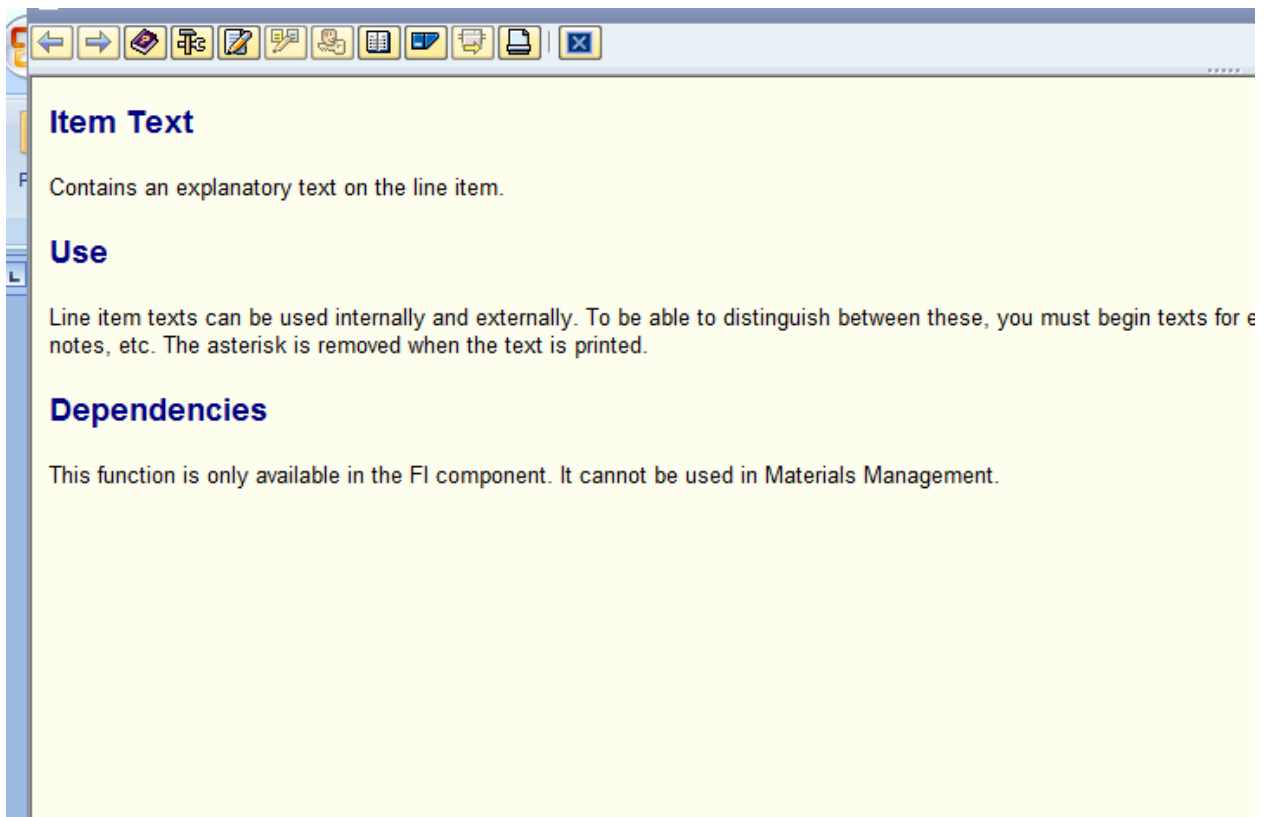
Let us check that....

Position the cursor on the field text



A screenshot of a SAP field. The field is labeled 'Text' and is currently empty. Below the field, there are two labels: 'Paymt terms' and 'Due on Base Date'. The field is highlighted with a blue border.

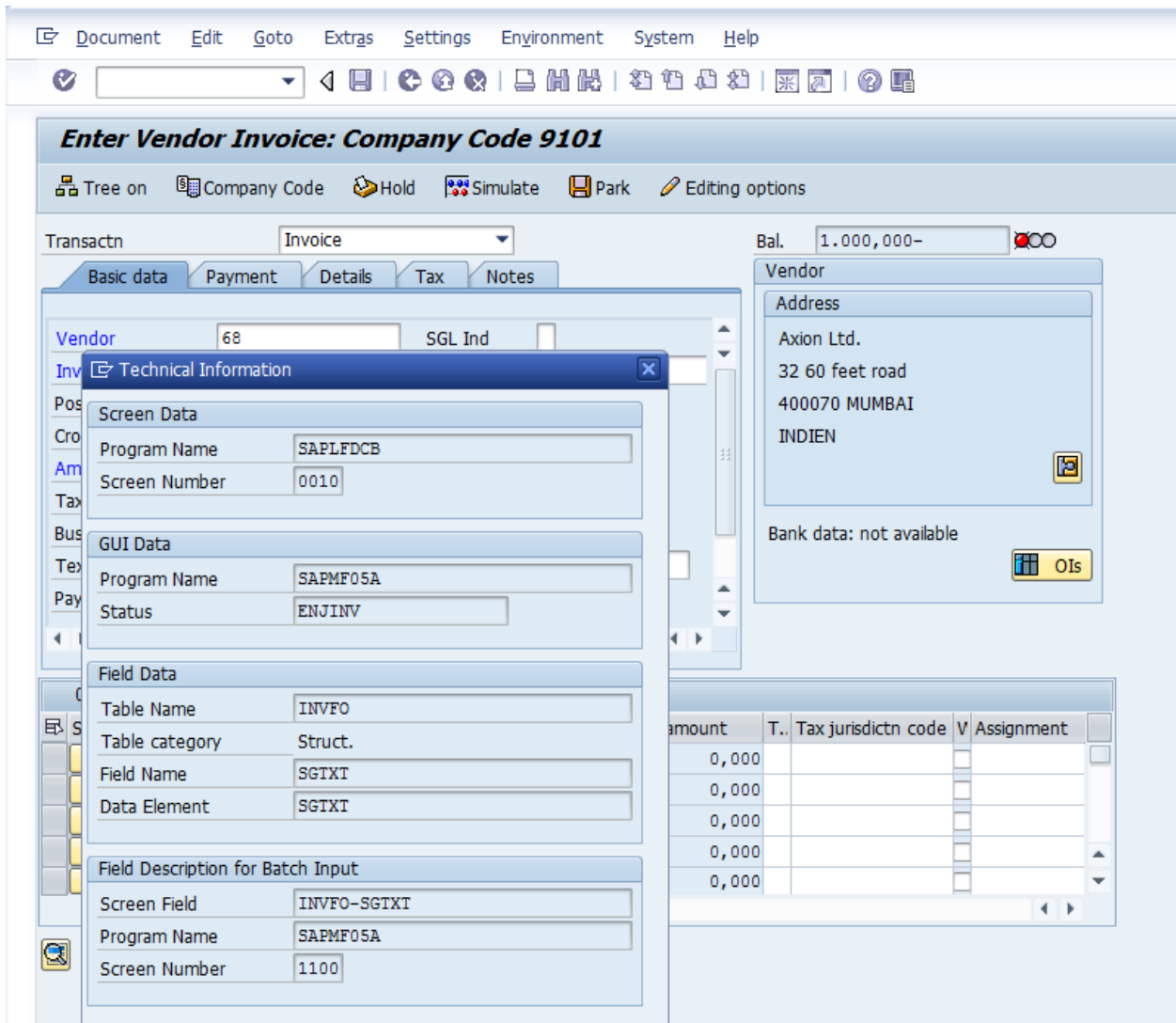
Click on function key F1



A screenshot of the SAP help text for the 'Item Text' field. The text is displayed in a yellow background with a blue border. The text is organized into sections: 'Item Text', 'Use', and 'Dependencies'. The 'Item Text' section contains the text 'Contains an explanatory text on the line item.' The 'Use' section contains the text 'Line item texts can be used internally and externally. To be able to distinguish between these, you must begin texts for e notes, etc. The asterisk is removed when the text is printed.' The 'Dependencies' section contains the text 'This function is only available in the FI component. It cannot be used in Materials Management.'

Click on 

The field name is SGTXT as can be seen below:-



The screenshot shows the SAP 'Enter Vendor Invoice' interface for Company Code 9101. A 'Technical Information' dialog box is open, displaying the following data:

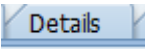
- Screen Data:** Program Name: SAPLFDCB, Screen Number: 0010
- GUI Data:** Program Name: SAPMF05A, Status: ENJINV
- Field Data:** Table Name: INVFO, Table category: Struct., Field Name: SGTXT, Data Element: SGTXT
- Field Description for Batch Input:** Screen Field: INVFO-SGTXT, Program Name: SAPMF05A, Screen Number: 1100

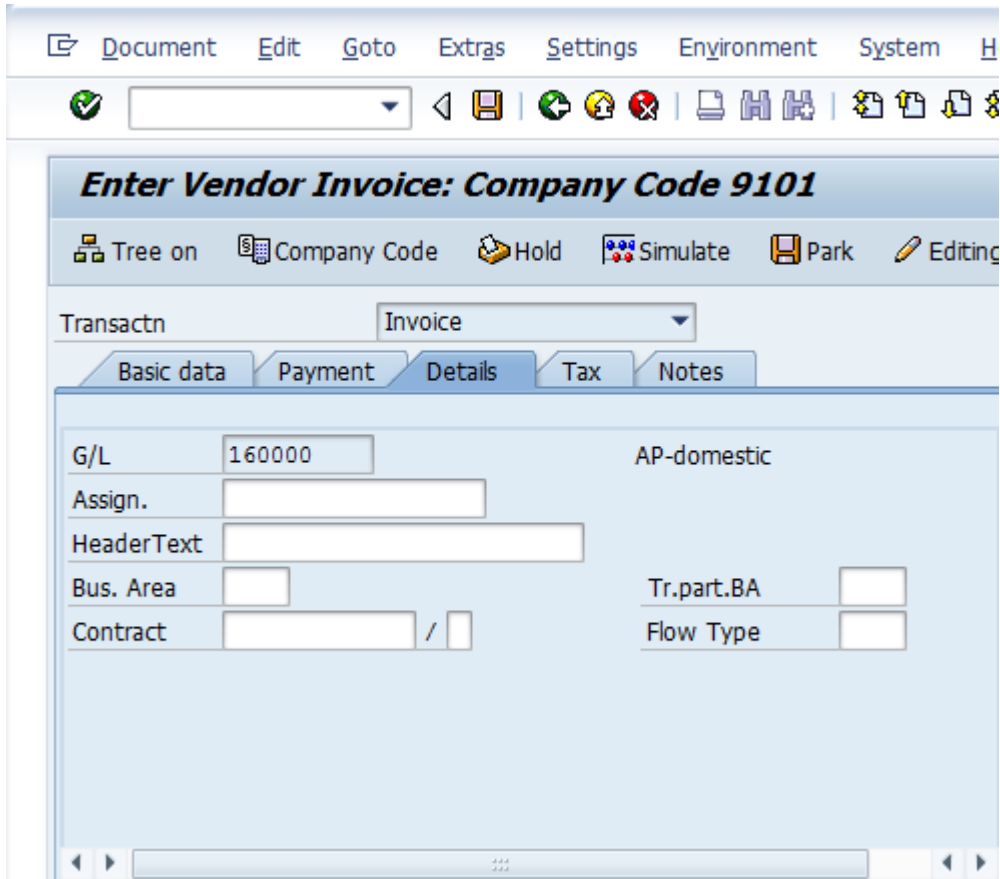
The background window shows the 'Vendor' section with the address: Axion Ltd., 32 60 feet road, 400070 MUMBAI, INDIEN. The balance is 1,000,000-.

This field is not the same as the header text.

Let us verify the same

The header text is in the Tab Details

Click on Tab Details 



Check the technical details of this field

Document Edit Goto Extras Settings Environment System Help

Enter Vendor Invoice: Company Code 9101

Tree on Company Code Hold Simulate Park Editing options

Transactn Invoice Bal. 1.000,000-

Basic data Payment Details Tax Notes

G/L 160000 AP-domestic

Ass Technical Information

Screen Data

Program Name SAPLFDCB

Screen Number 0050

GUI Data

Program Name SAPMF05A

Status ENJINV

Field Data

Table Name INVFO

Table category Struct.

Field Name BKTXT

Data Element BKTXT

Field Description for Batch Input

Screen Field INVFO-BKTXI

Program Name SAPMF05A

Screen Number 1100

Vendor

Address

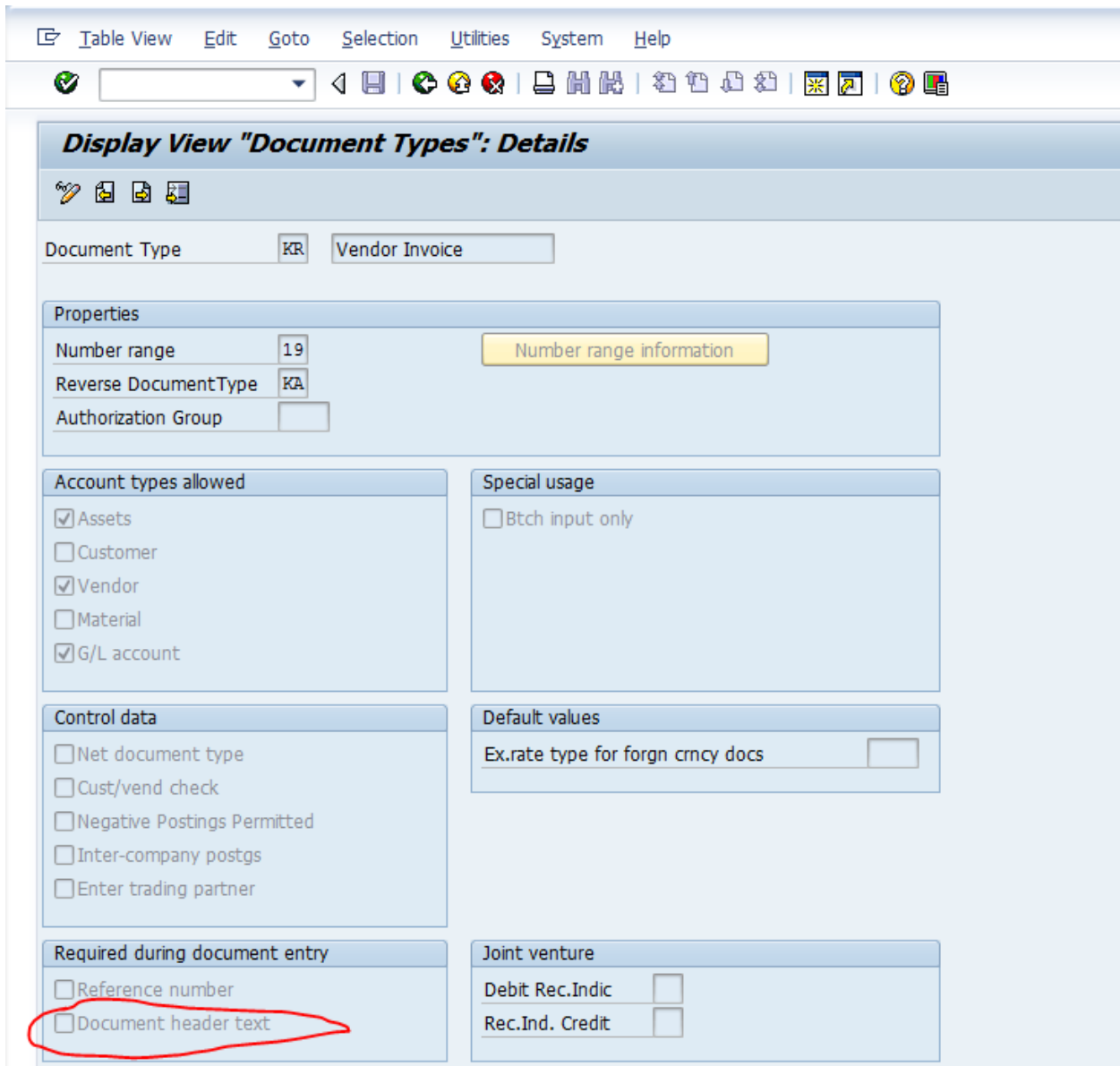
Axion Ltd.
32 60 feet road
400070 MUMBAI
INDIEN

Bank data: not availa

amount	T..	Tax jurisdictn cod
0,000		
0,000		
0,000		
0,000		
0,000		

The BXTXT field – if to be mandatory can be controlled through FI customizing:-

SAP Customizing Implementation Guide → Financial Accounting (New) → Financial Accounting Global Settings (New) → Document → Document Types → Define Document Types for Entry View



The header text can be made mandatory by clicking on the Document header text.

But the requirement given here is a different field. Interesting isn't it?

How do we configure this? Will it require validation? Whether it will be at header level or line item level or complete document level ?

Think.

Think.....

Solution :-

Validation is definitely required.

The SGTXT is a field available in line item, and to make vendor text mandatory we have to set it at the vendor line item.

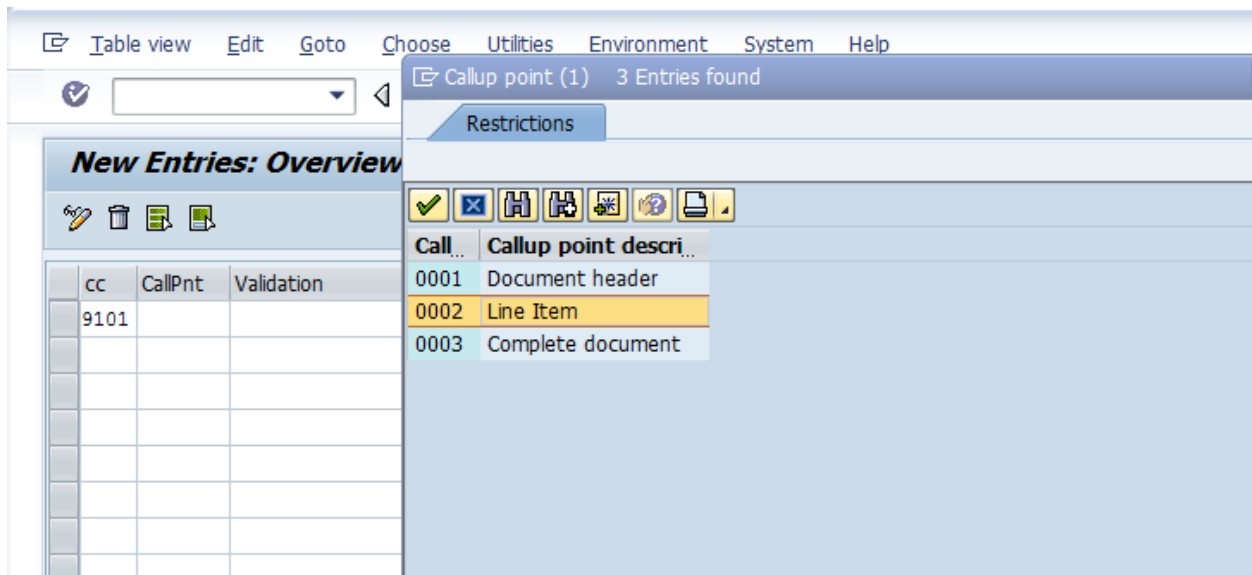
How do we determine which is the vendor line item?

For vendor invoice posting, posting key 31 is called in the background, so let us use that.

SAP Customizing Implementation Guide → Financial Accounting → Financial Accounting Global Settings → Document → Document Header → Validation in Accounting Documents

Click on **New entries**

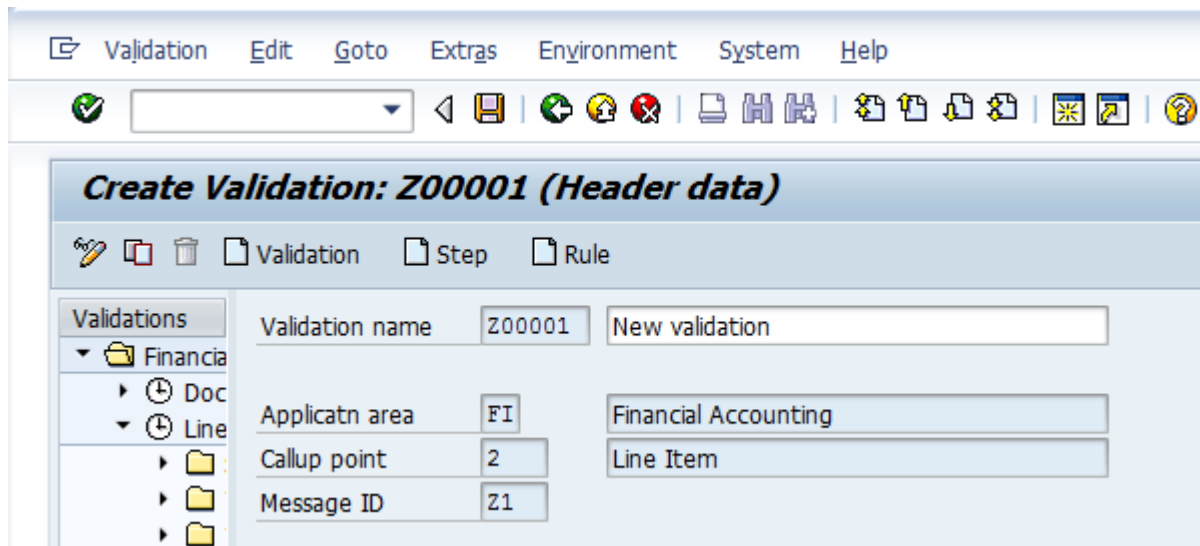
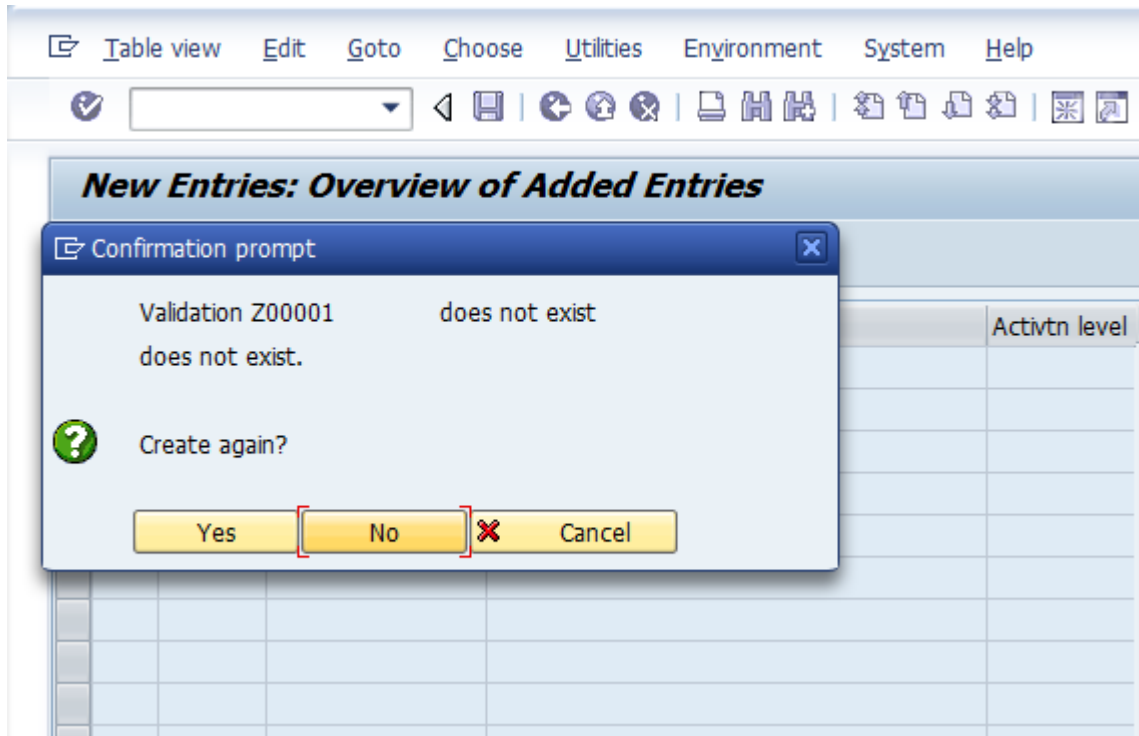
Update the following:-




cc	CallPnt	Validation	Description	Activtn level
9101	2	Z00001		

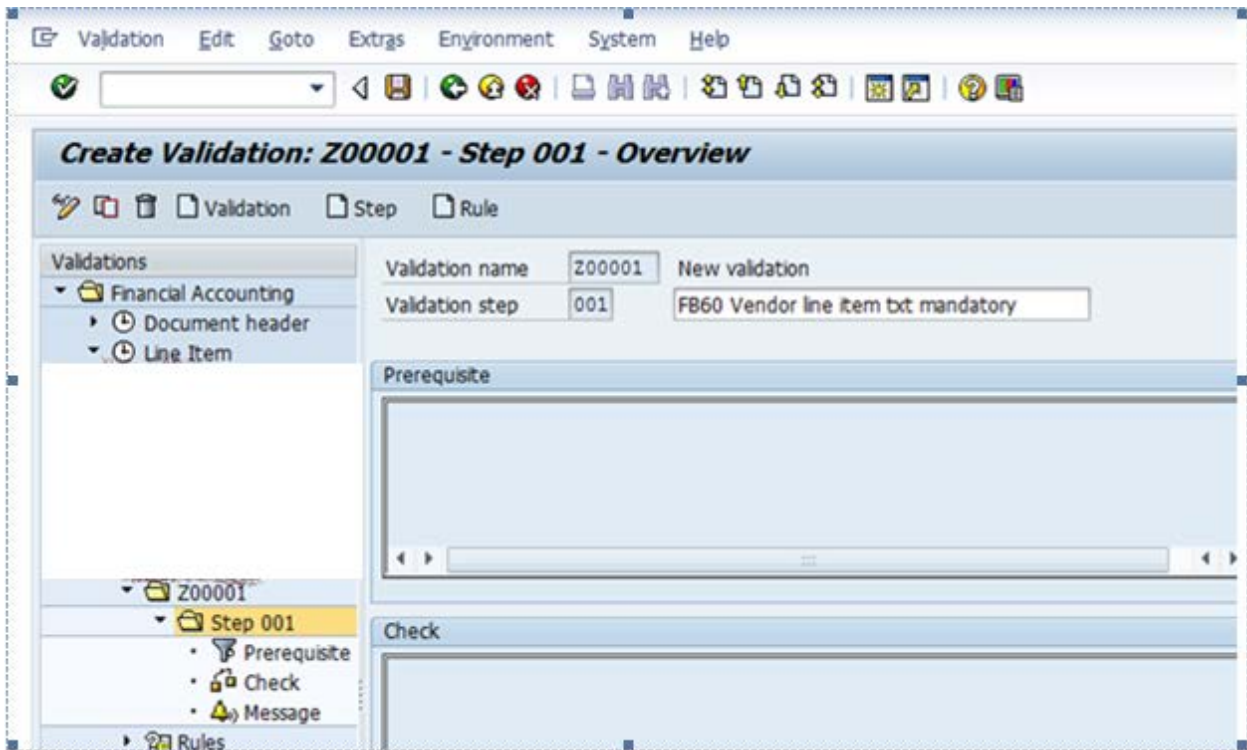
Click Environment → Validation




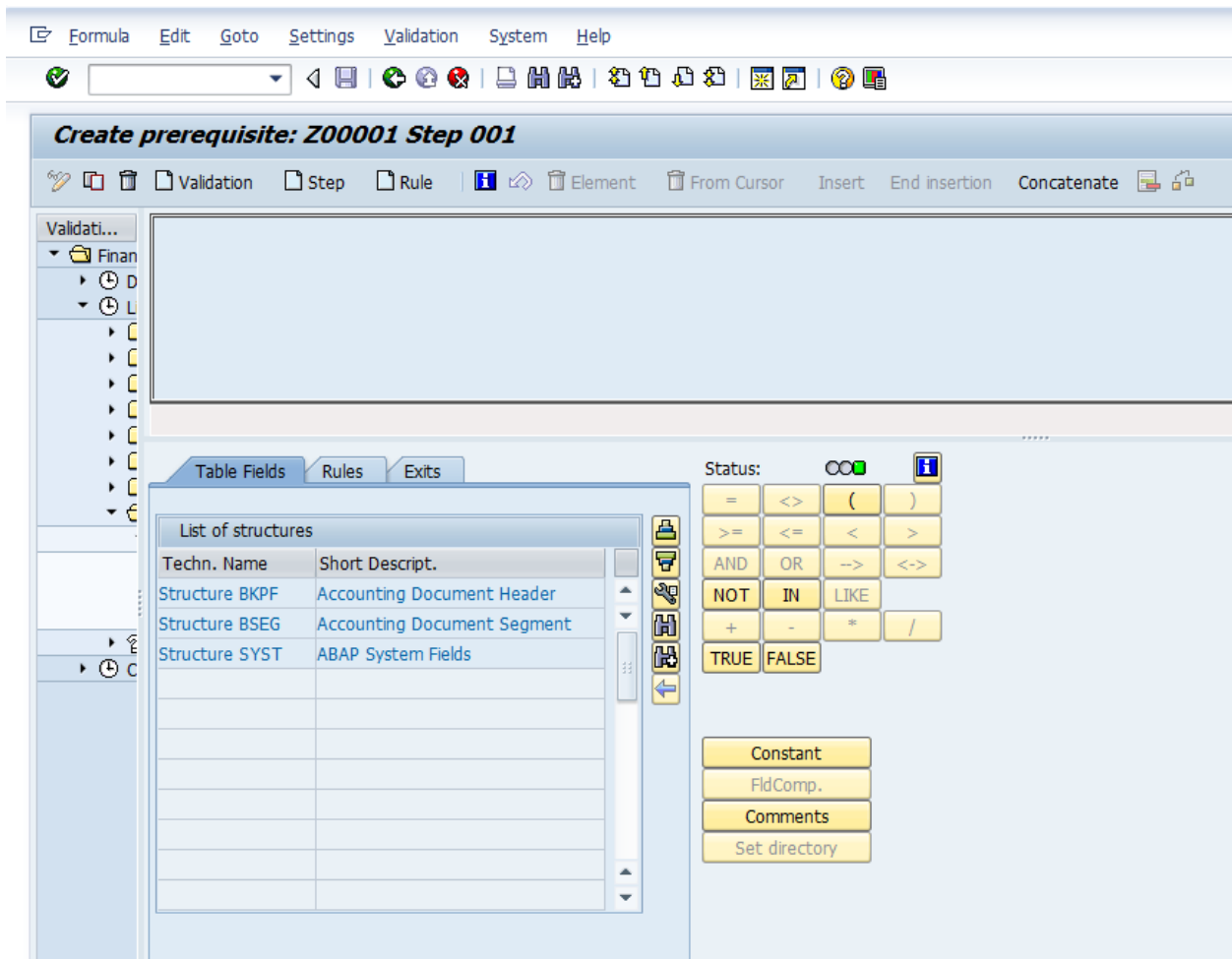


Click 

Update the following:-

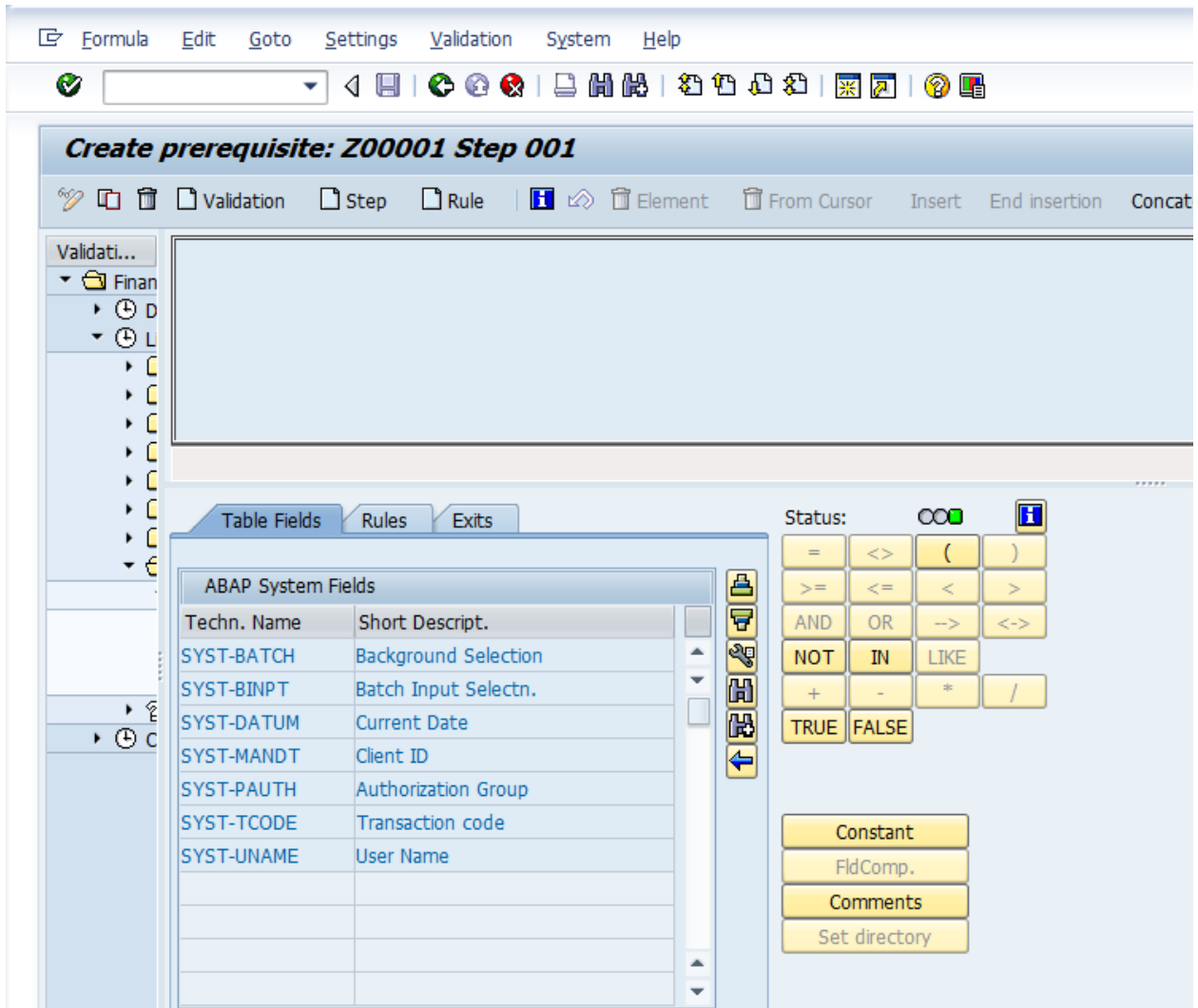


Double click  Prerequisite



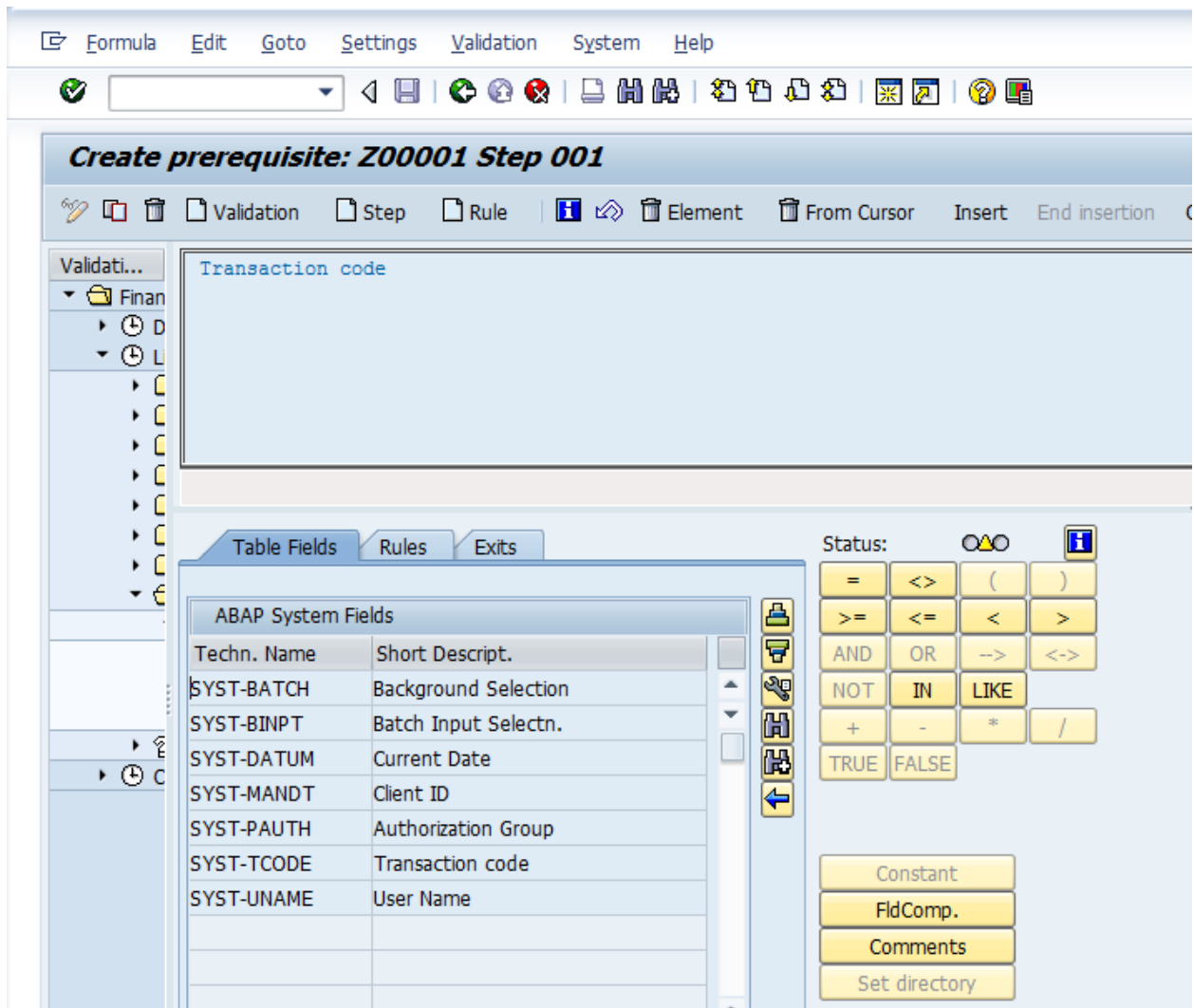
Double click


Structure SYST	ABAP System Fields
----------------	--------------------

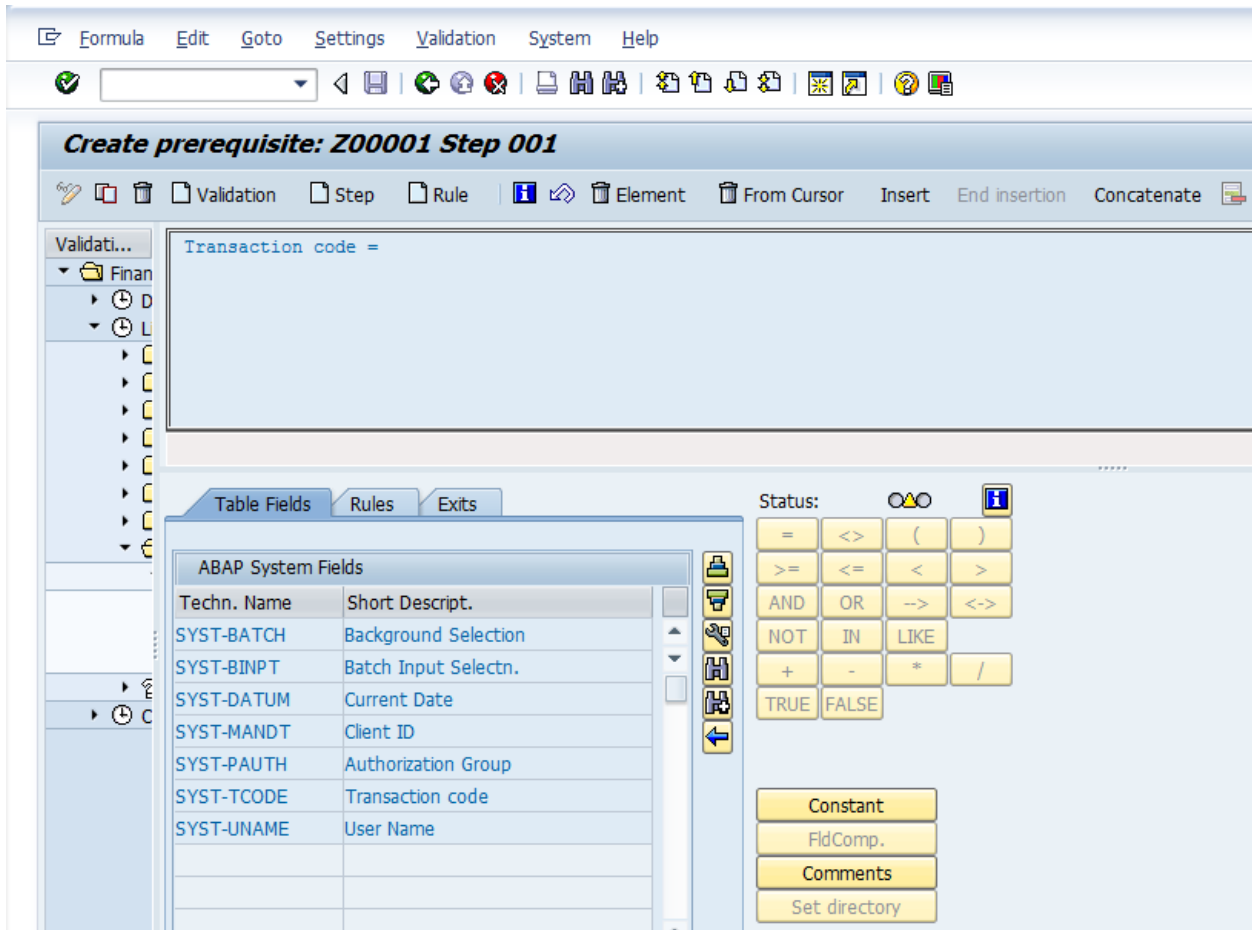


Double click

SYST-TCODE	Transaction code
------------	------------------

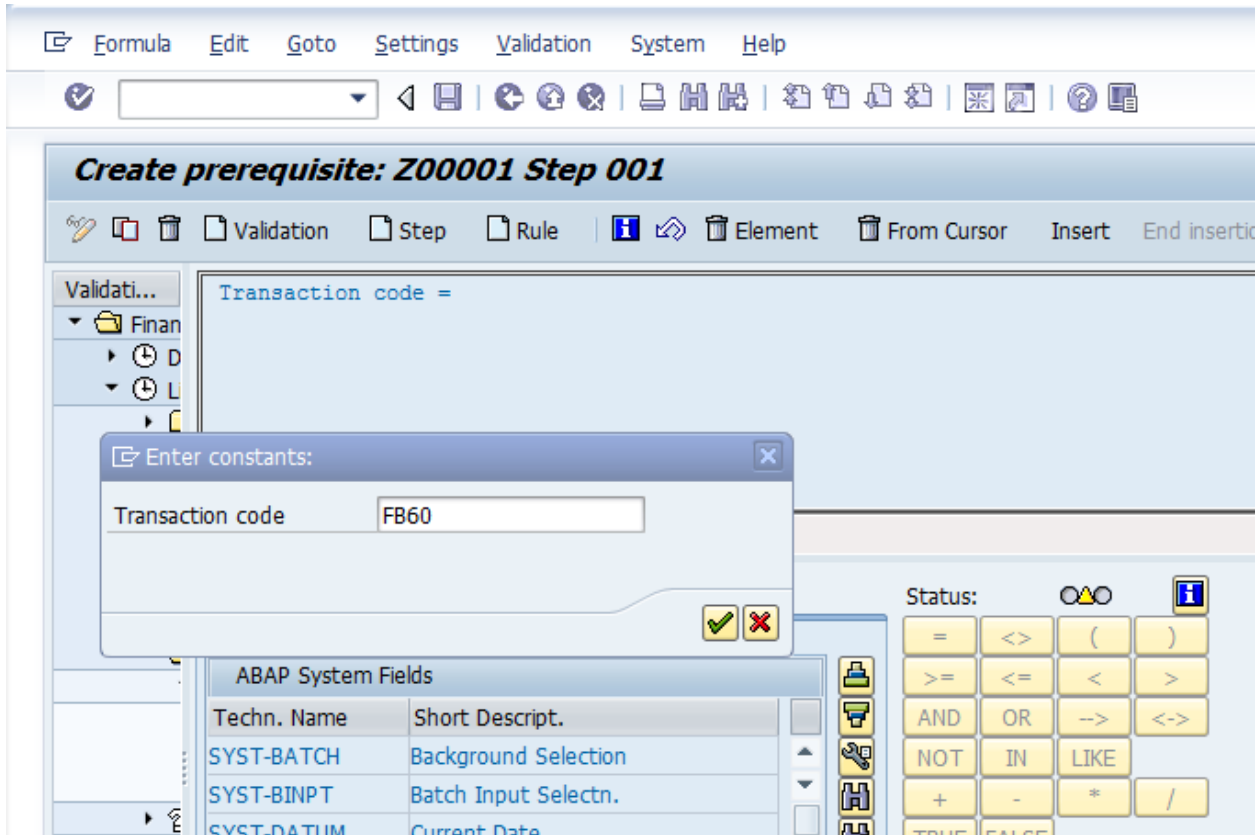


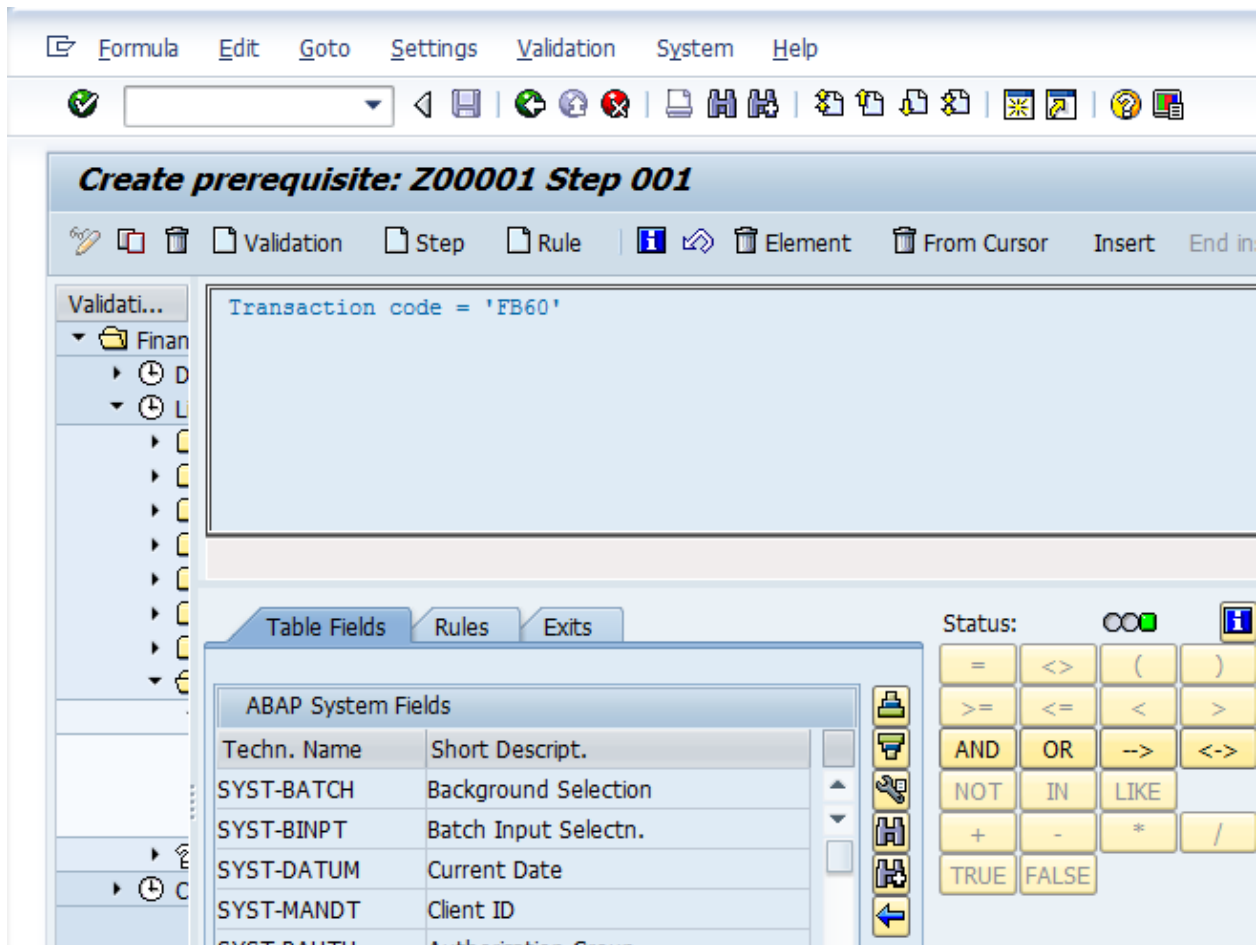
Click 



Click 

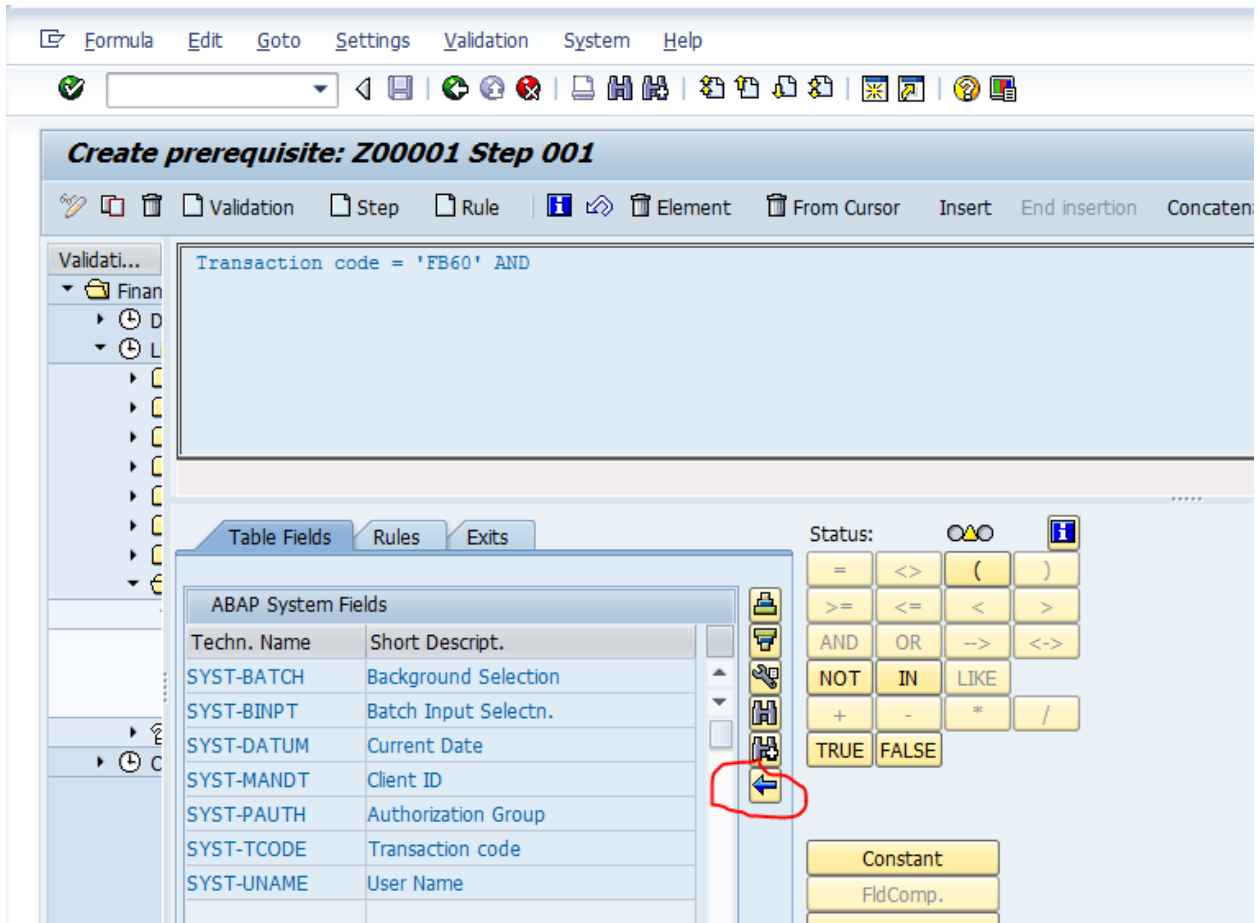
Update the following:-

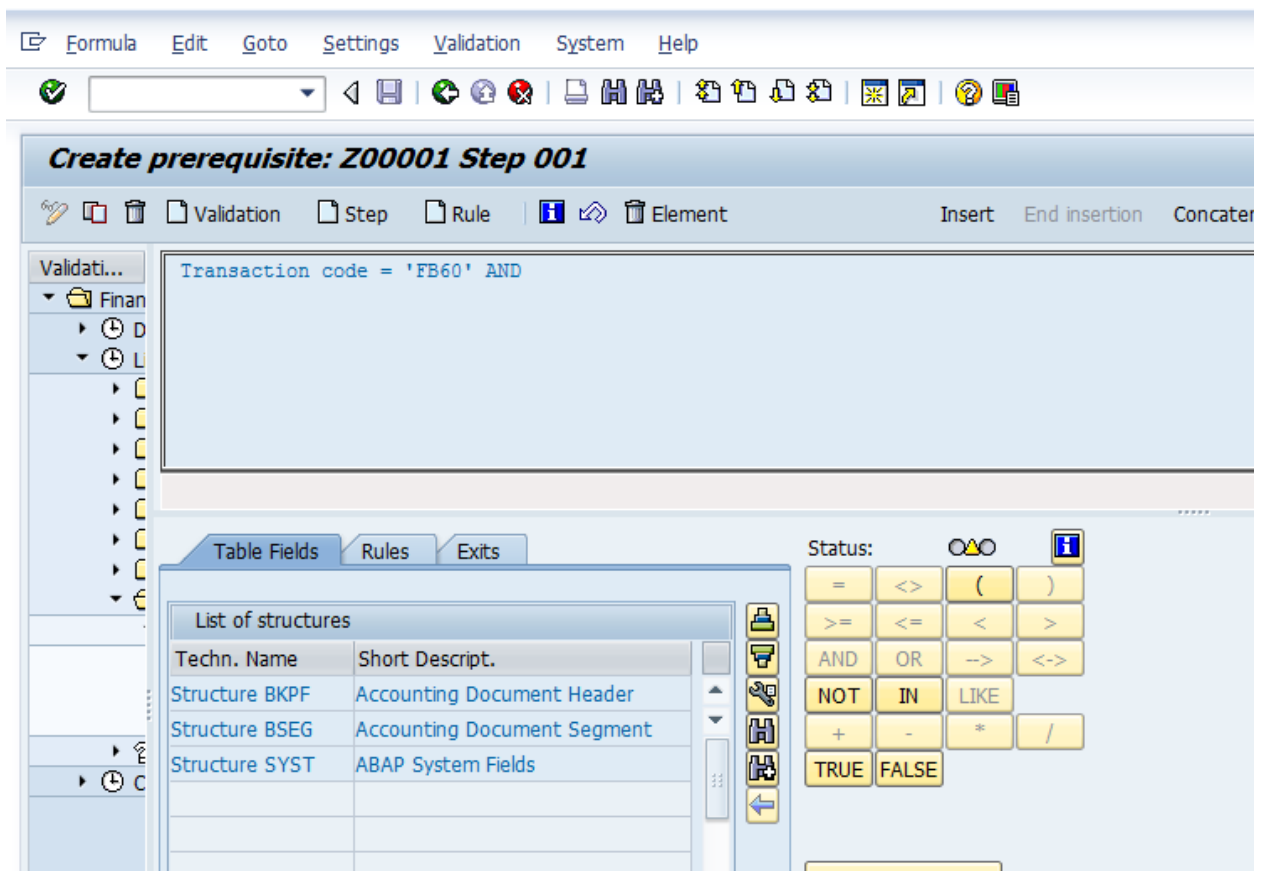




Click **AND**

Click back as shown below:-





Double click

Structure BSEG	Accounting Document Segment
----------------	-----------------------------

Formula Edit Goto Settings Validation System Help

Transaction code = 'FB60' AND

Validation...
 Finan
 D
 L

Table Fields Rules Exits

Techn. Name	Short Descript.
BSEG-ABPER	Settl.period
BSEG-ABSBT	Hedged amnt
BSEG-AGZEI	Clearing item
BSEG-ALTKT	Group account number
BSEG-ANBWA	Trans. type
BSEG-ANFAE	Return bef.
BSEG-ANFBJ	Fiscal yr
BSEG-ANFBN	B/e pmnt req.
BSEG-ANFBU	Company code
BSEG-ANLN1	Asset
BSEG-ANLN2	Subnumber

Status: ○○○ ⓘ

= <> ()
 >= <= < >
 AND OR --> <->
 NOT IN LIKE
 + - * /
 TRUE FALSE

Constant
 FldComp.
 Comments
 Set directory

Click  and update posting key

Formula Edit Goto Settings Validation System Help

Transaction code = 'FB60' AND

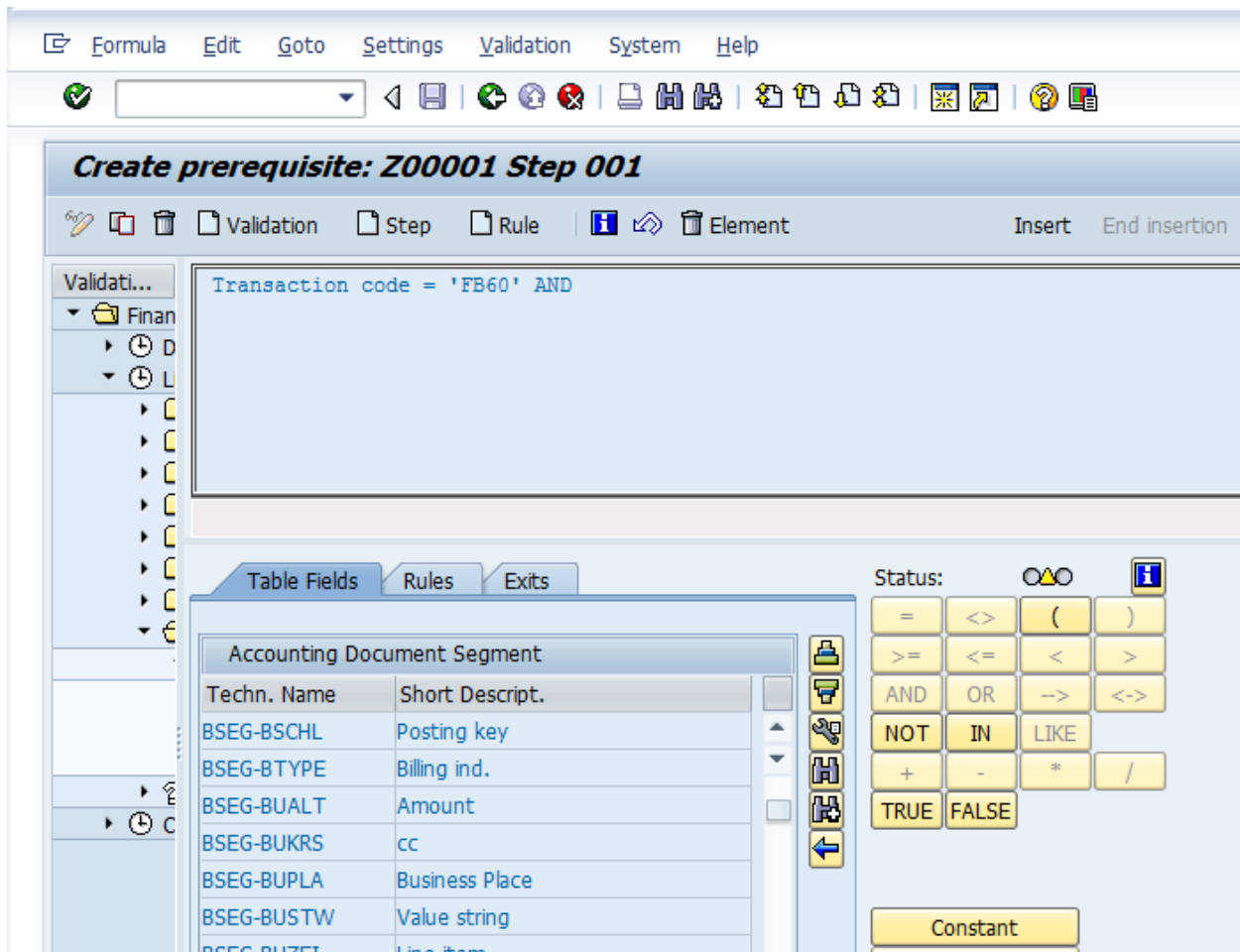
Search Operand List

Search term POSTING key

Accounting Document Segment	
Techn. Name	Short Descript.
BSEG-ABPER	Settl.period
BSEG-ABSBT	Hedged amnt
BSEG-AGZEI	Clearing item

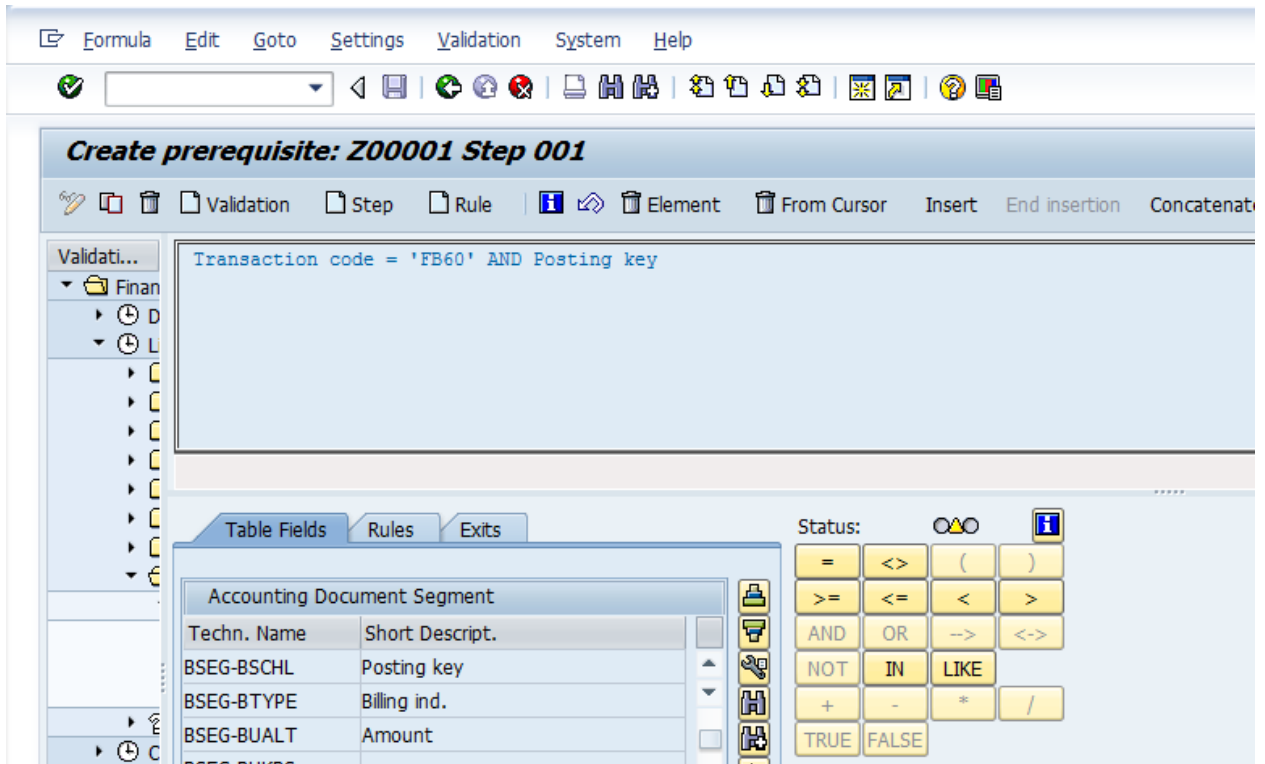
Status: [Info]

= <> ()
 >= <= < >
 AND OR --> <->
 NOT IN LIKE
 + - * /
 TRUE FALSE




Double click

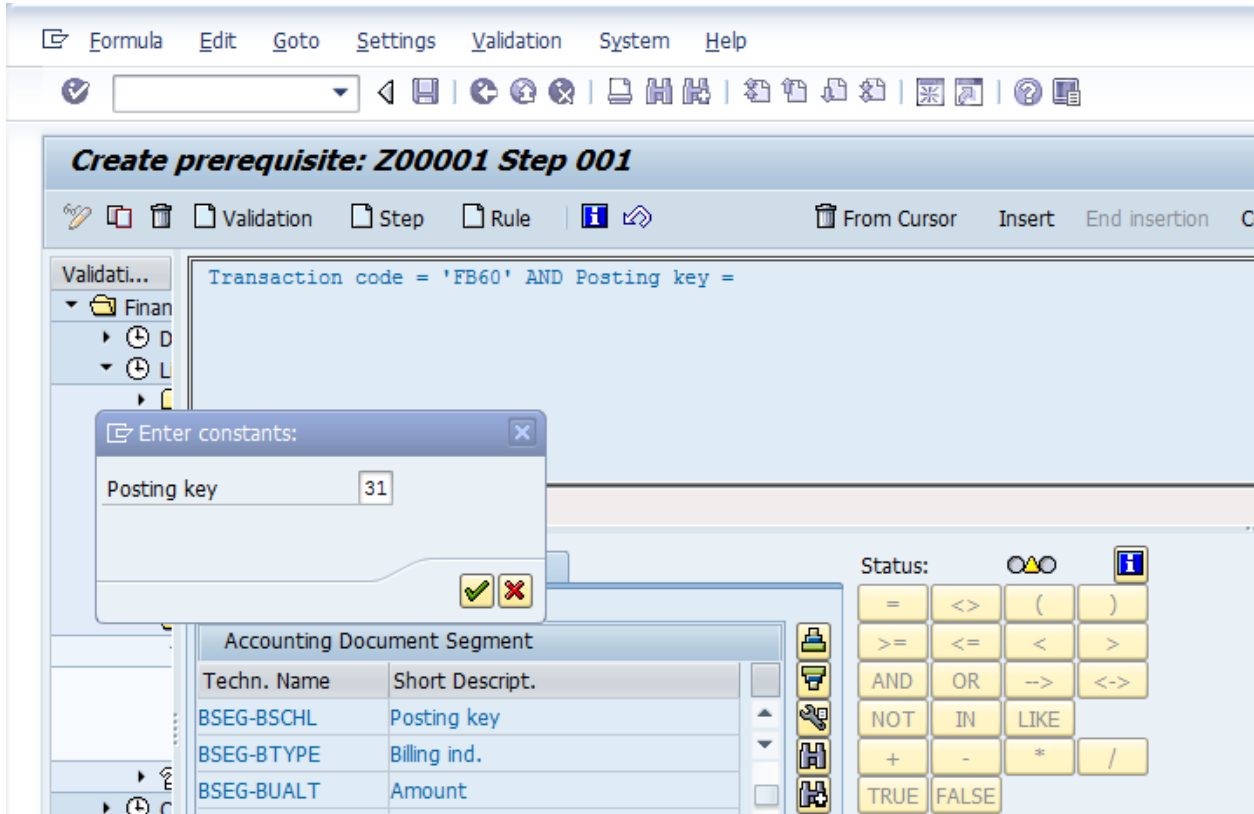
BSEG-BSCHL	Posting key
------------	-------------

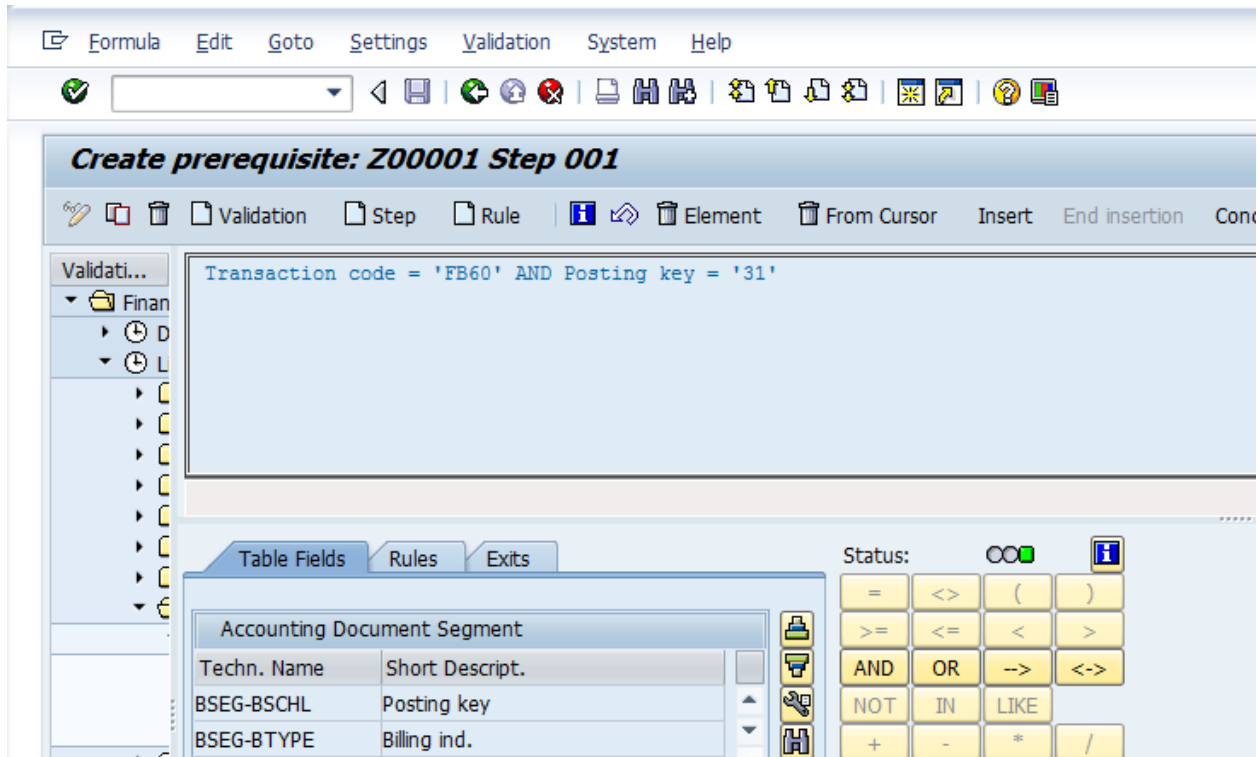



Click 

Click 

Update the following:-





Click  Check

Double click

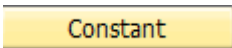
Structure BSEG	Accounting Document Segment
----------------	-----------------------------

And search for the field SGTXT

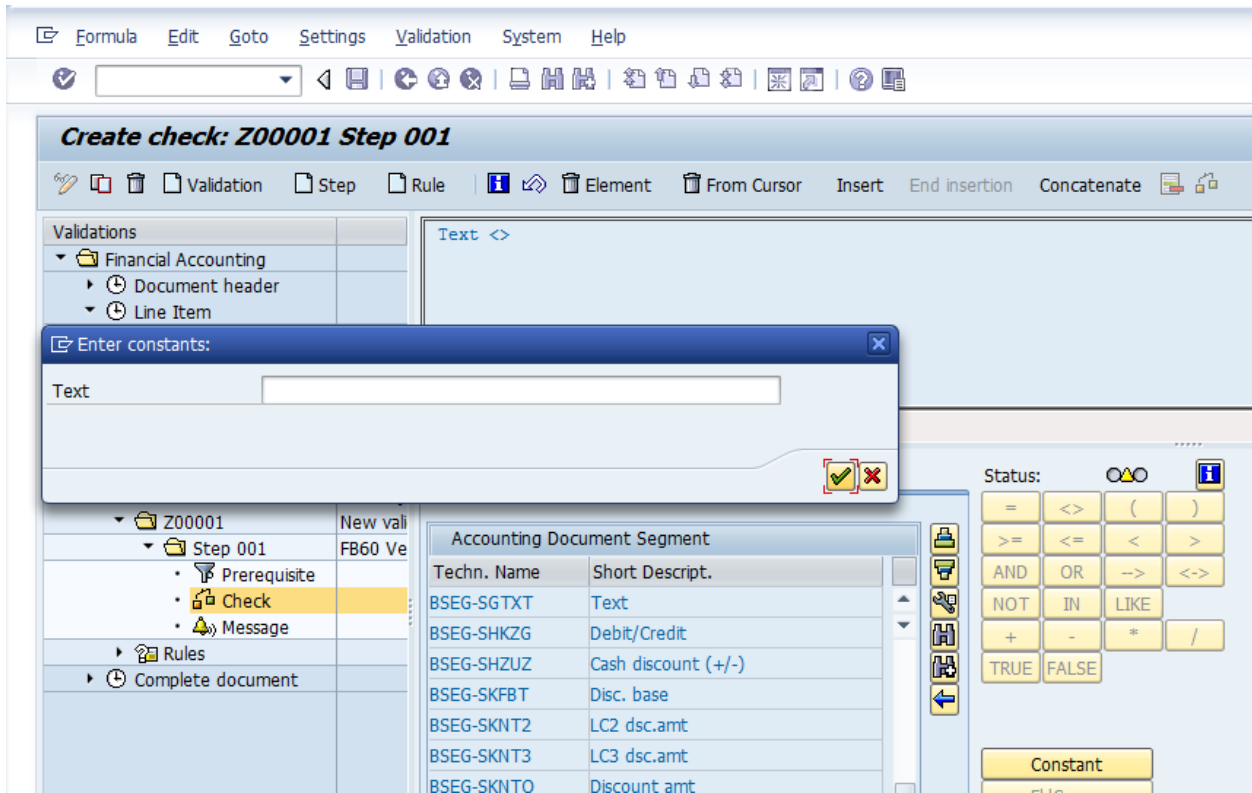
Accounting Document Segment	
Techn. Name	Short Descript.
BSEG-SGTXT	Text
BSEG-SHKZG	Debit/Credit
BSEG-SHZUZ	Cash discount (+/-)
BSEG-SKFBT	Disc. base
BSEG-SKNT2	LC2 dsc.amt
BSEG-SKNT3	LC3 dsc.amt

Double click BSEG-SGTXT

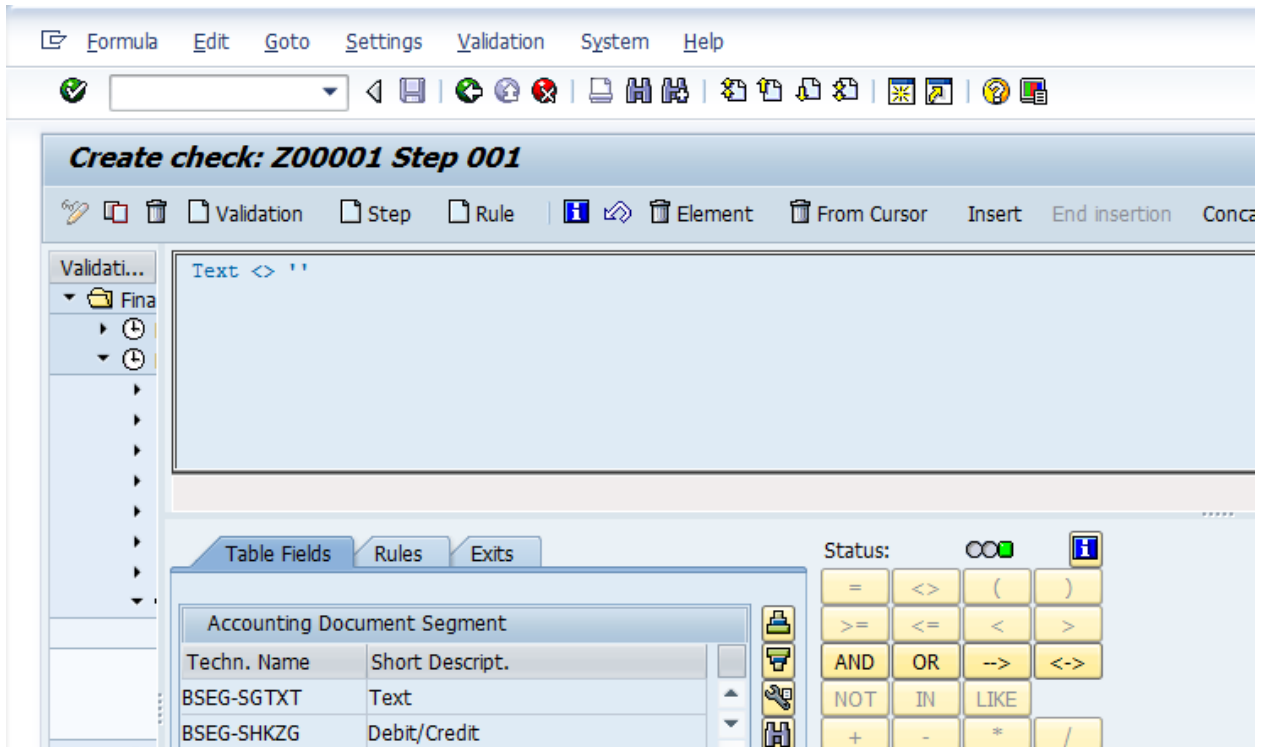
Click 

Click 

Update the following:-



Keep it blank



Click  Message

Validation Edit Goto Extras Environment System Help

Create Validation: Z00001 - Step 001 - Message

Validation name: New validation
 Validation step:

Message (Output if prerequisite is met and check is NOT fulfilled)

Message type: Message class:

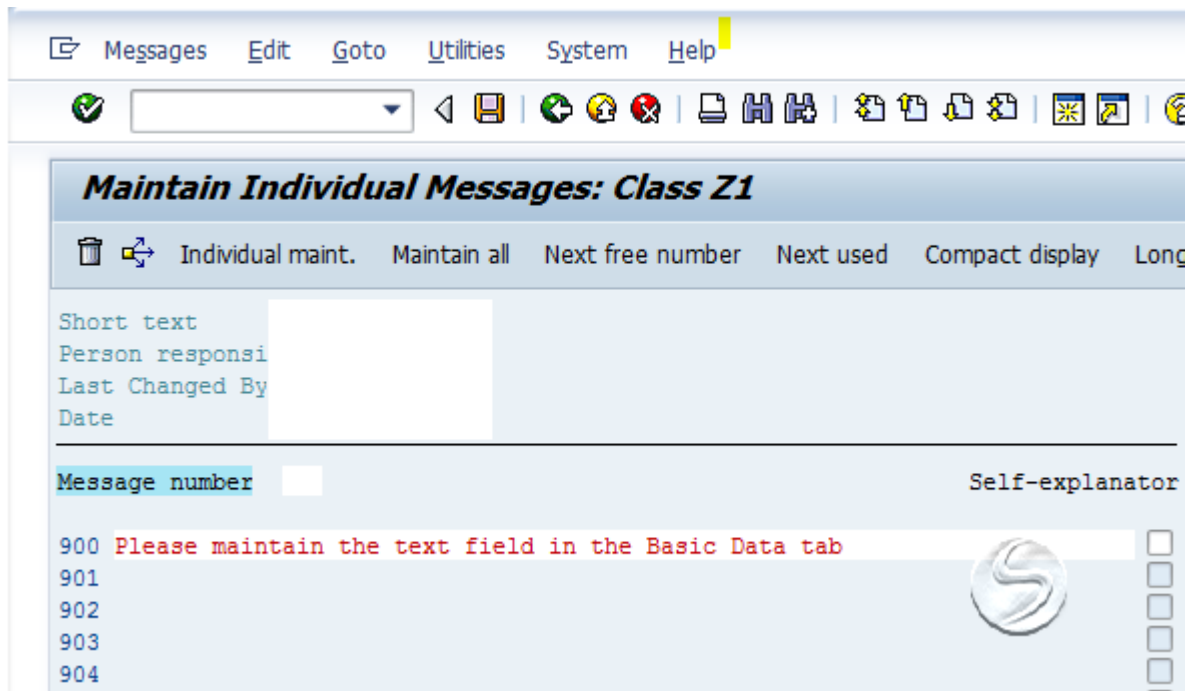
Message number:
 Message text:

Message variables

1	<input type="text"/>	-	<input type="text"/>	2	<input type="text"/>	-	<input type="text"/>
3	<input type="text"/>	-	<input type="text"/>	4	<input type="text"/>	-	<input type="text"/>

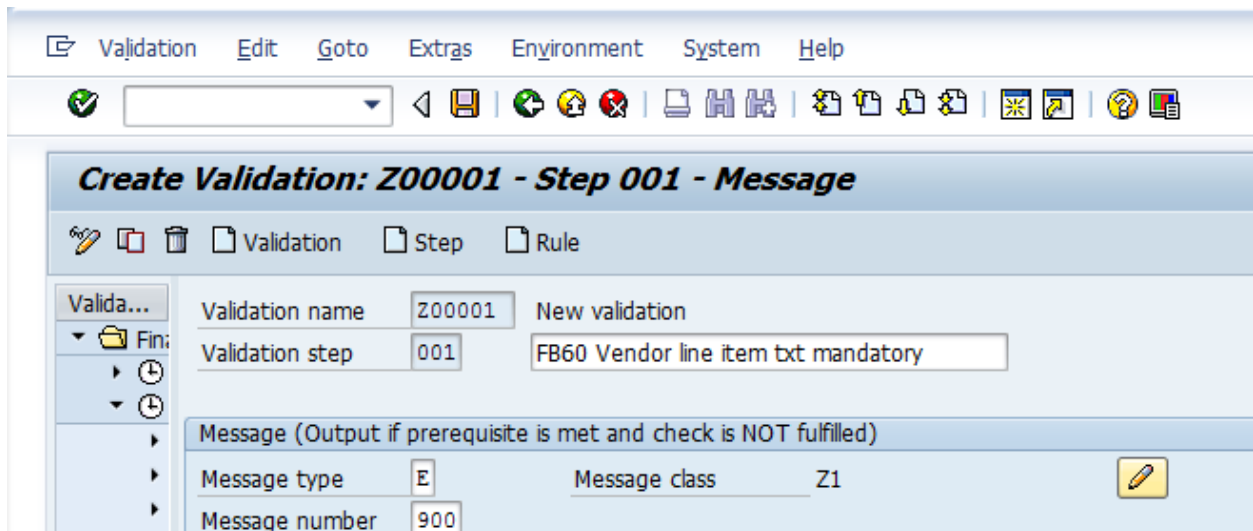
Trigger workflow

Click on



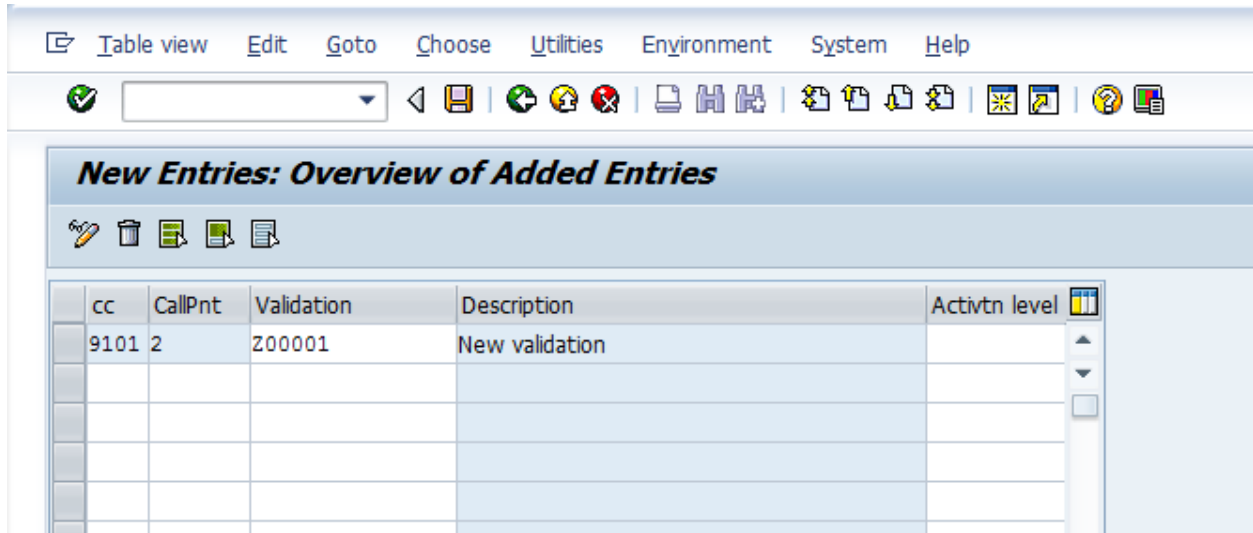
Click on Save

Update the message number 900 in the validation message step



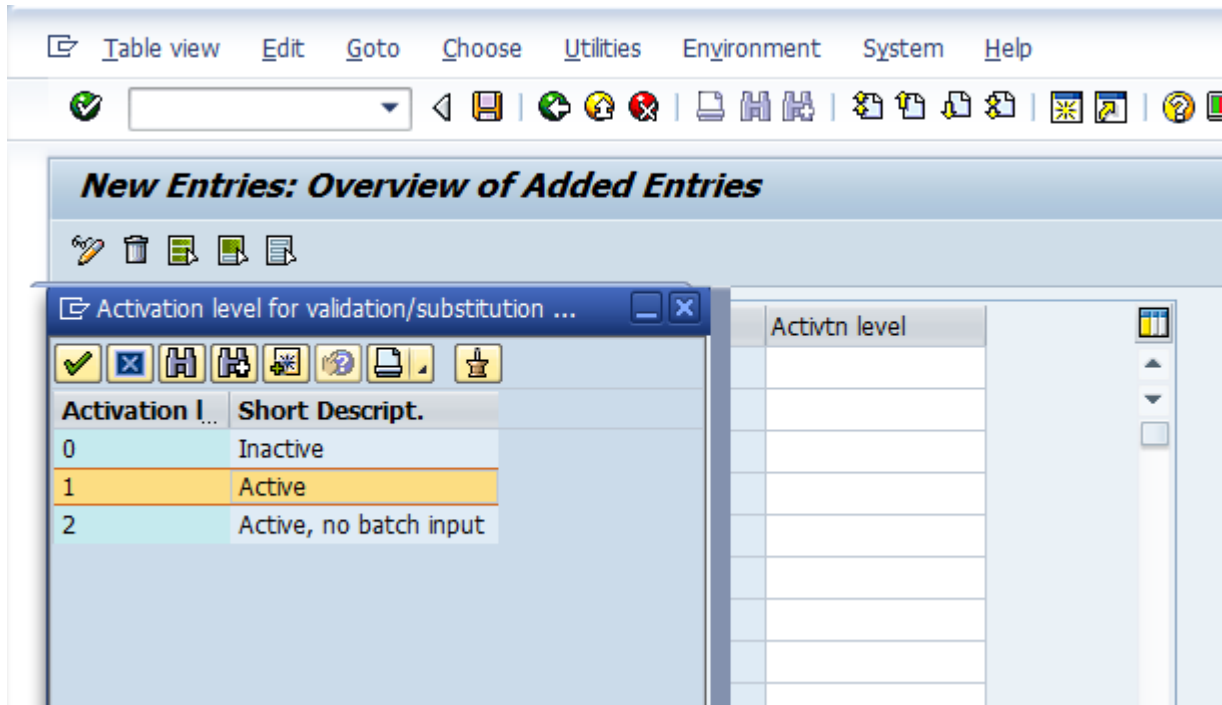
Click on Save

Come back to the main validation window

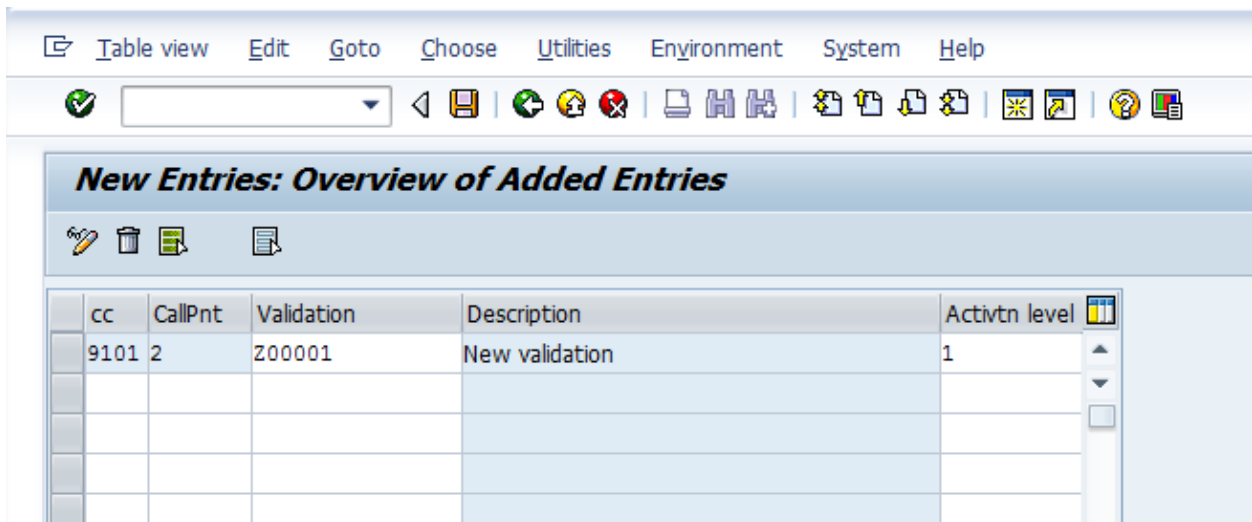


The screenshot shows a SAP software window with a menu bar (Table view, Edit, Goto, Choose, Utilities, Environment, System, Help) and a toolbar. Below the toolbar is a title bar for a table titled "New Entries: Overview of Added Entries". The table has five columns: "cc", "CallPnt", "Validation", "Description", and "Activtn level". The first row contains the values "9101 2", "Z00001", and "New validation".

cc	CallPnt	Validation	Description	Activtn level
9101 2		Z00001	New validation	



Update as active



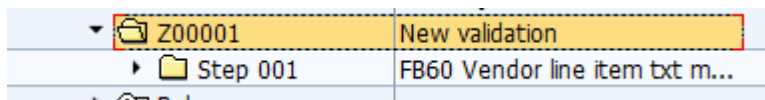
Click on Save

2. Transporting Validation

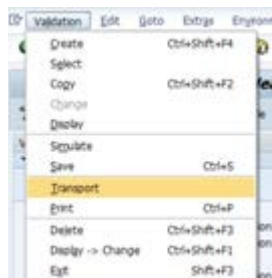
Validation objects are workbench object and have to be included manually in transport request.

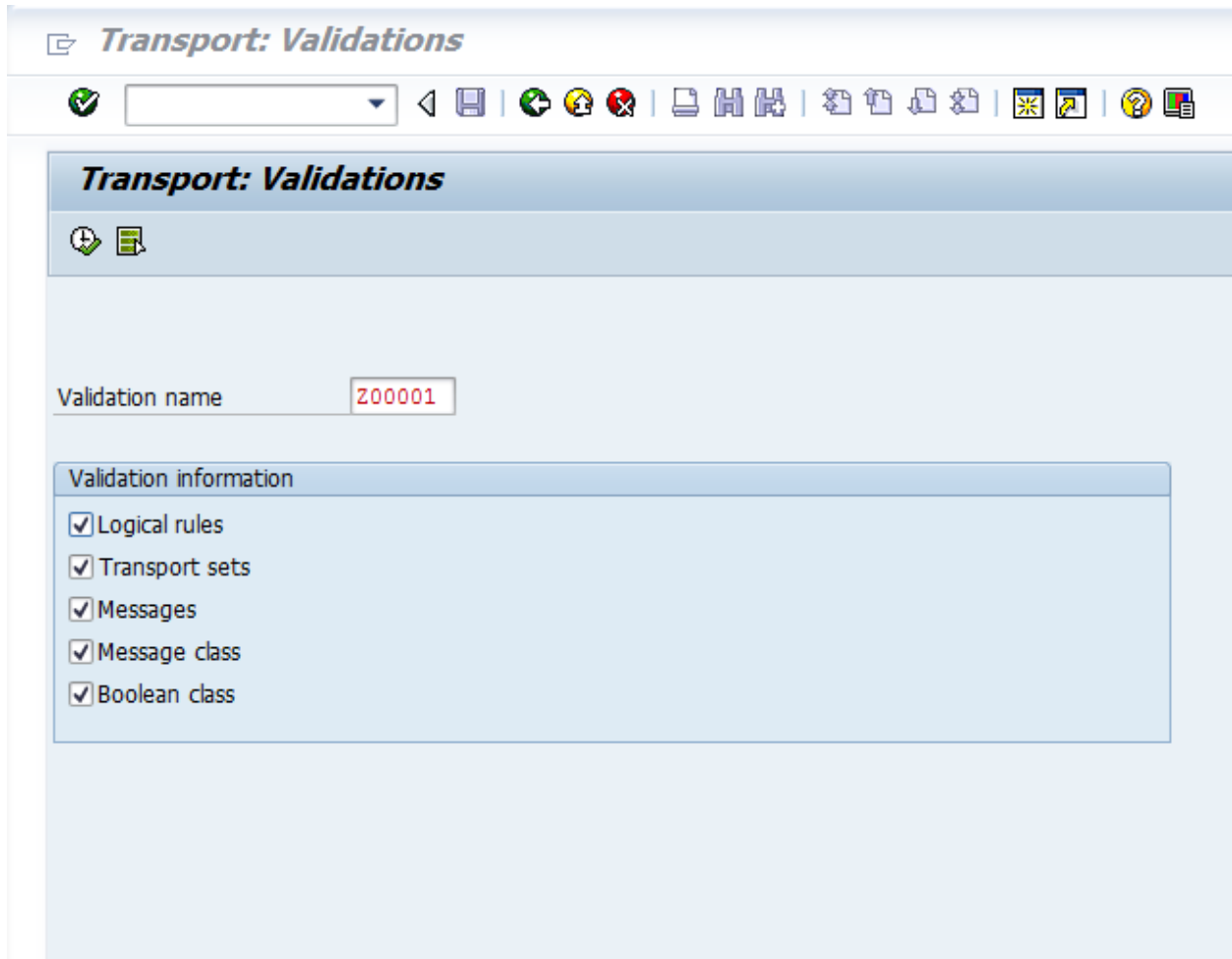
Proceed as follows:-

Position the cursor on



Click

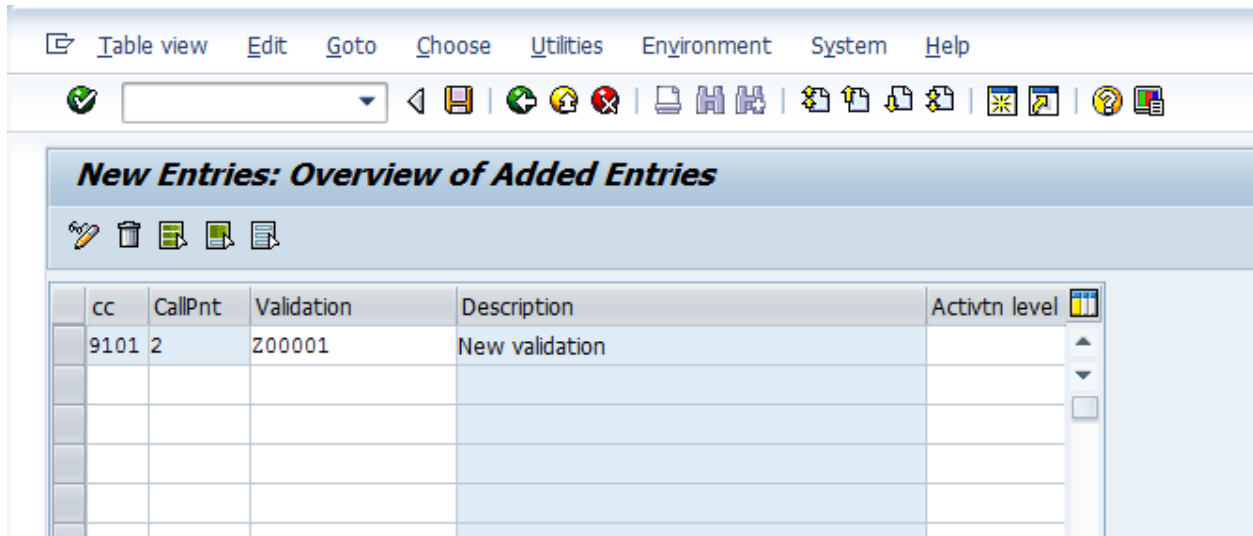




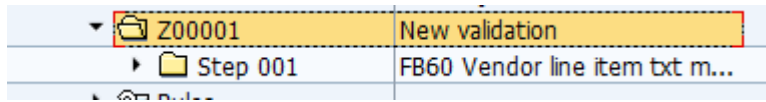
Click Execute to include validation objects in transport.

So in effect there will be 2 transport requests:-

- 1) For the customizing entry



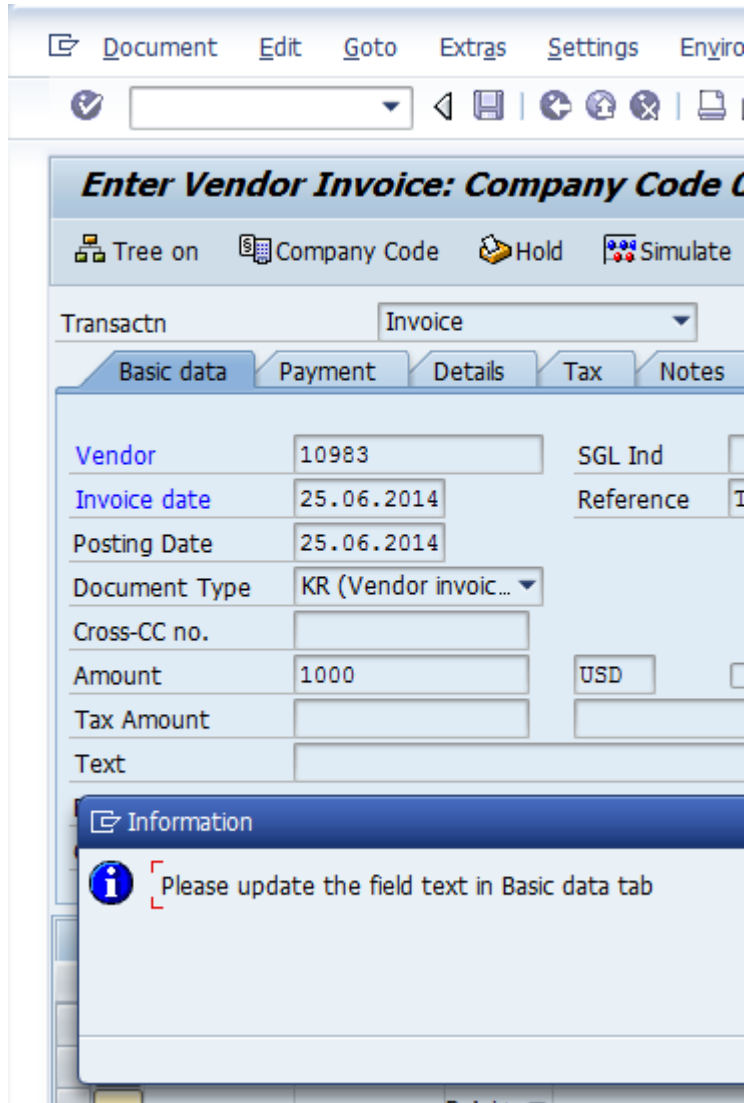
2) For the validation objects



You are now done with validation customizing.

Let us now test the validation in transaction code FB60

Update the following and press enter



So there goes your validation message.

3. User Exits in Validation

Sometimes the validation requirements are quite complex and cannot be done using the standard validation configuration.

Example: Your project had a requirement that in transaction F-28 (Incoming payment from customer) the reference field must be of length 7 characters and should be prefixed with the letter **C** or **L**.

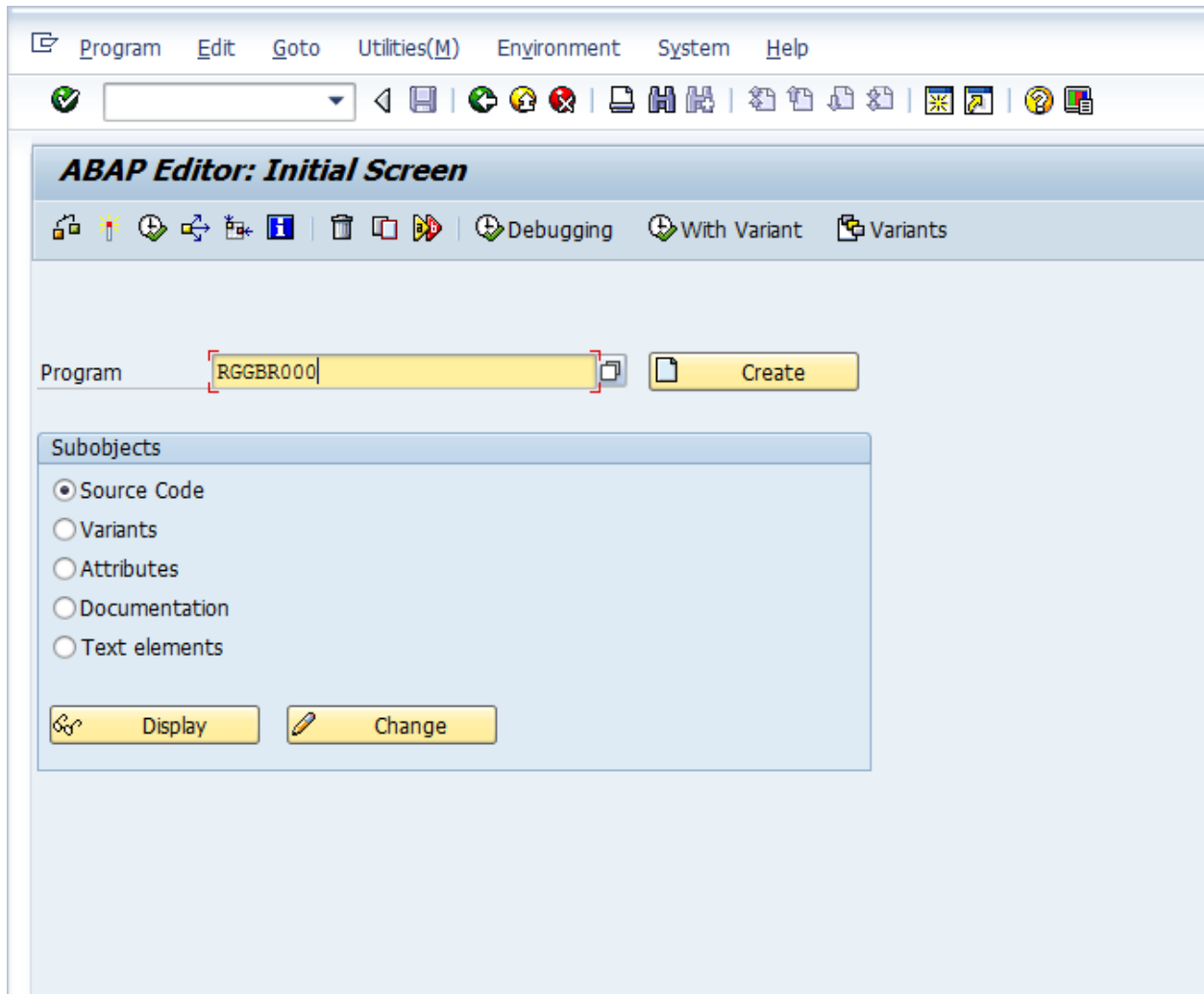
In this case we definitely need to use a user exit.


User exit steps:-

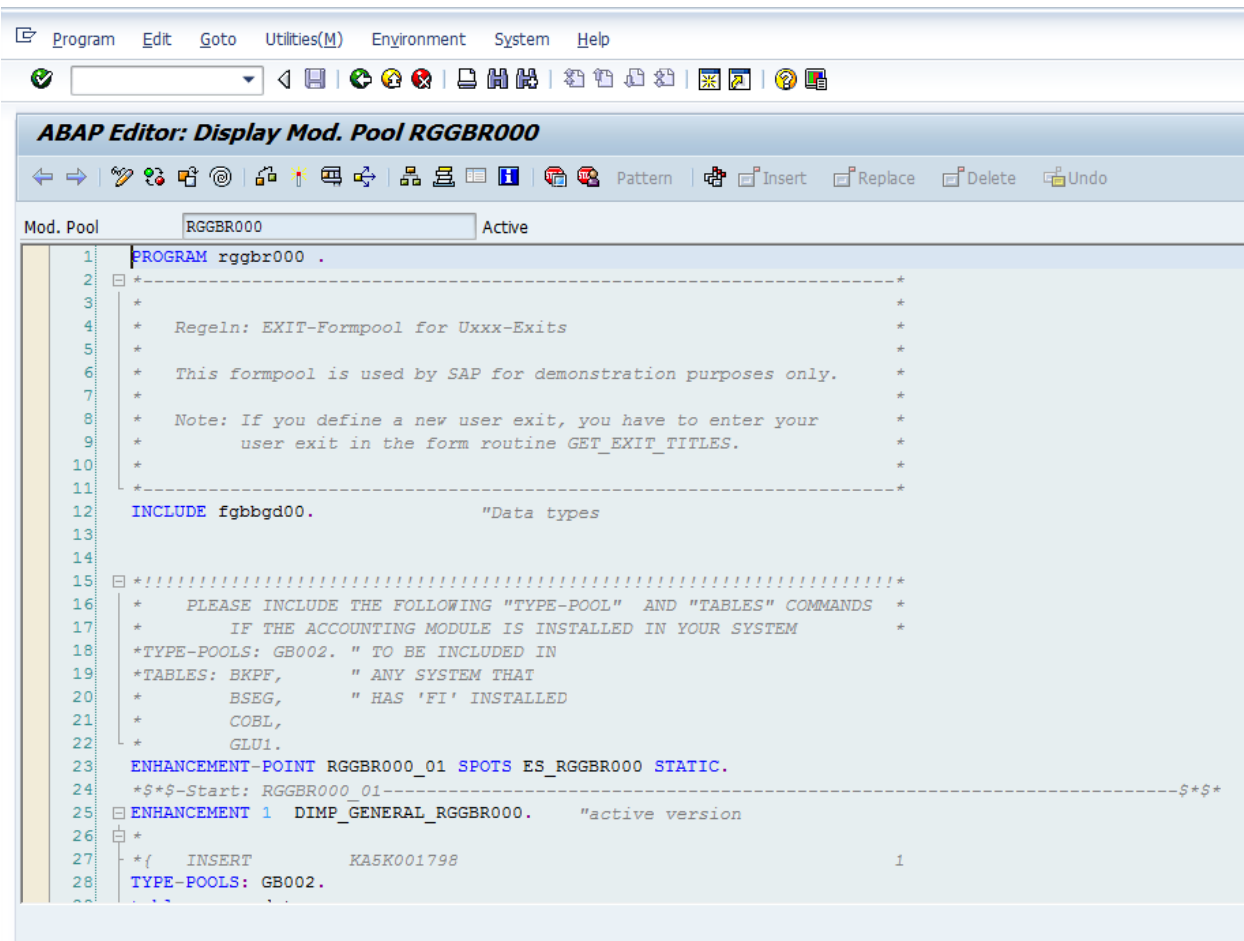
RGGBR000 is an example form pool provided by **SAP for validation exits**.

RGGBS000 is an example form pool provided by **SAP for substitution exits**

Transaction code: SE38



Click on  Display



Copy the standard **RGGBR000** into your custom program **ZRGGB**

Define the user exit in the **FORM "GET_EXIT_TITLES"**

This form GET_EXIT_TITLES contains name and titles of all available standard exits. Every new exit need to be added to this form.

We show below an example coding

Exit name = UZ001

Create a form

```
&-----*
*&   Form UZ001
*&-----*
*   text
*-----*
* <-- B_RESULT T = True F = False
*-----*

FORM uz001 USING b_result.

DATA: len TYPE i.
* DATA: SCREEN LIKE DYNREAD OCCURS 0 WITH HEADER LINE.
* DATA: LEN TYPE I.

len = STRLEN( bkpfxblnr ).

IF sy-tcode = 'F-28'
  OR sy-tcode = 'F-29'
```

IF bkpfxblnr IS INITIAL .

 b_result = b_false.

 EXIT .

ELSEIF len > 7.

 b_result = b_false.

 EXIT .

ELSEIF bkpfxblnr(1) <> 'C' AND bkpfxblnr(1) <> 'L'.

 b_result = b_false.

 EXIT .

ELSE .

 b_result = b_true.

 EXIT .

ENDIF .

ELSE.

 b_result = b_true.

ENDIF.

ENDFORM.

" UZ001

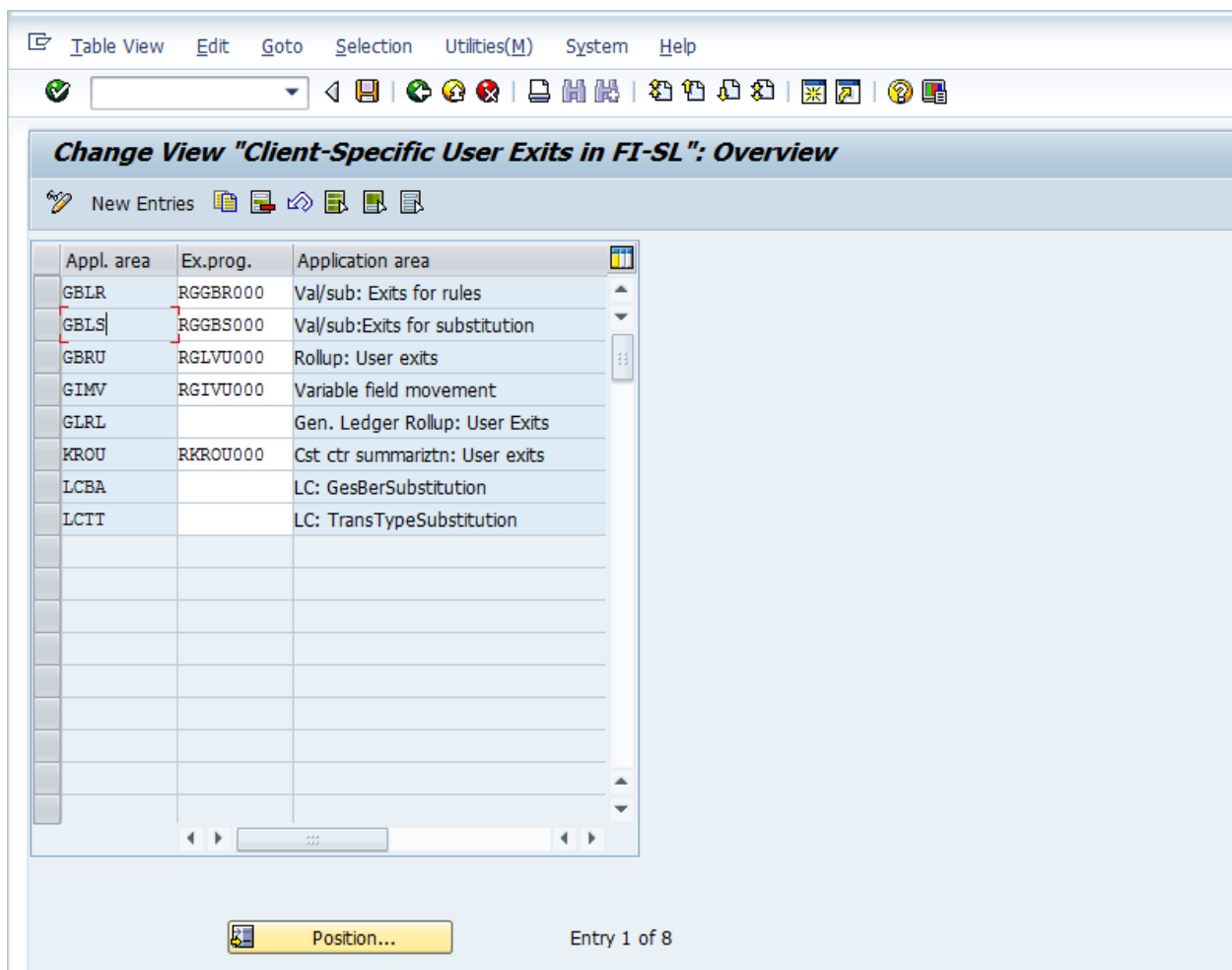
4. Assign the custom validation program to application area

Transaction code: GGX2

Or

Path:

SAP Customizing Implementation Guide → Financial Accounting → Special Purpose Ledger → Basic Settings → User Exits → Maintain Client-Specific User Exits

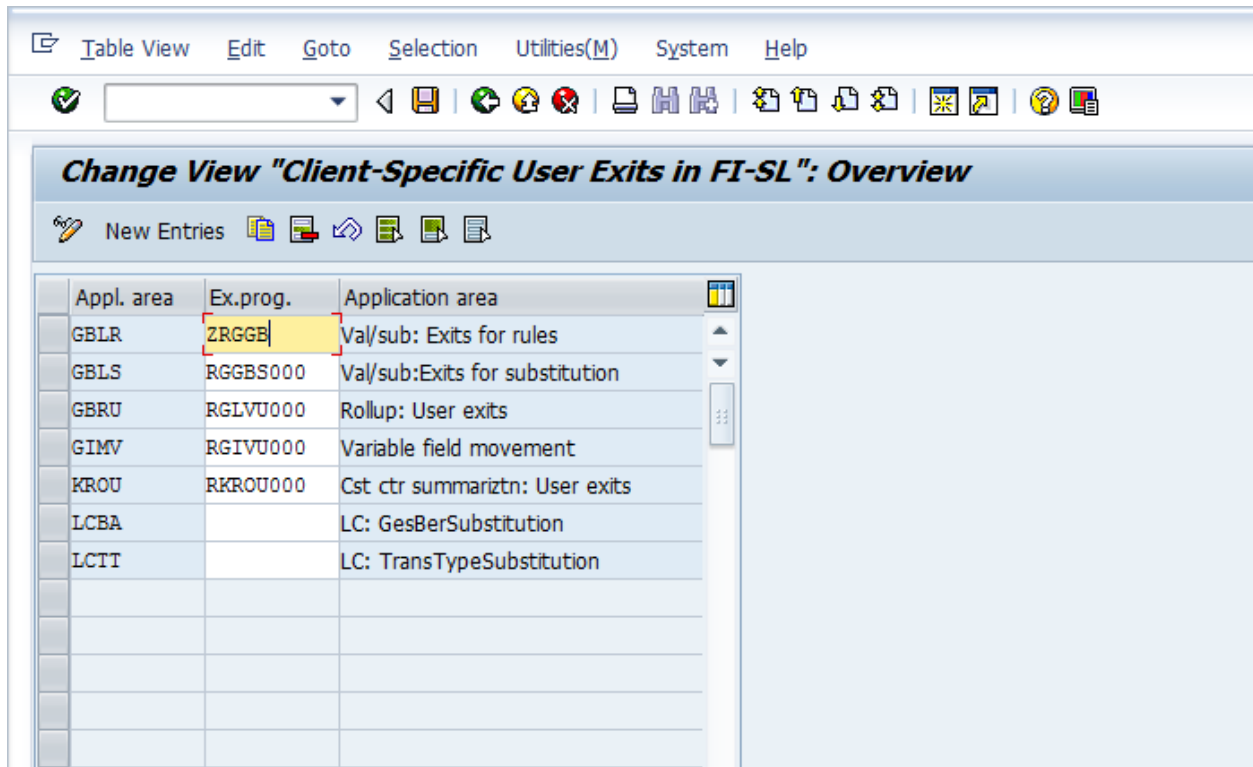


The screenshot displays the SAP GGX2 transaction interface. The title bar reads "Change View 'Client-Specific User Exits in FI-SL': Overview". Below the title bar is a toolbar with various icons. The main area contains a table with the following data:

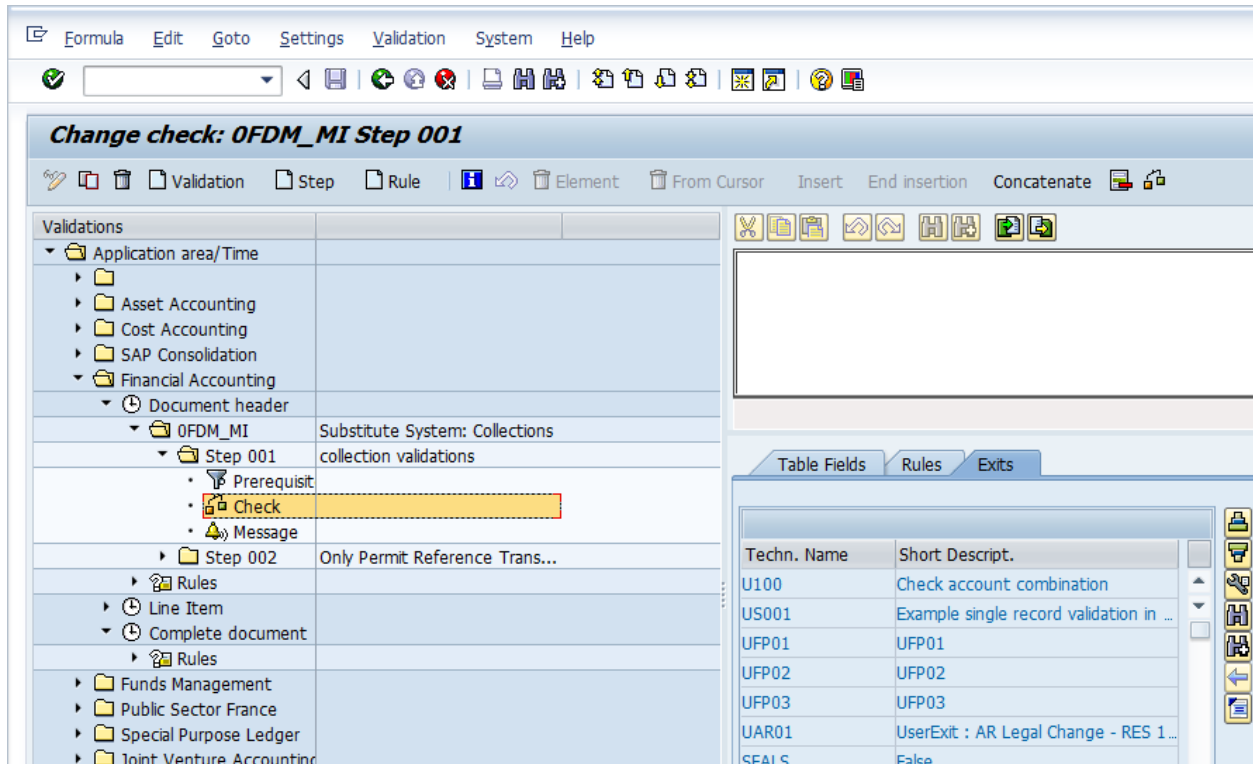
Appl. area	Ex.prog.	Application area
GBLR	RGGBR000	Val/sub: Exits for rules
GBLS	RGGBS000	Val/sub: Exits for substitution
GBRU	RGLVU000	Rollup: User exits
GIMV	RGIVU000	Variable field movement
GLRL		Gen. Ledger Rollup: User Exits
KROU	RKROU000	Cst ctr summariztn: User exits
LCBA		LC: GesBerSubstitution
LCTT		LC: TransTypeSubstitution

At the bottom of the window, there is a "Position..." button and the text "Entry 1 of 8".

Remove the existing assignment from GBLR and update your new program ZRGGB



Update the user exit UZ001 in the validation transaction in check



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