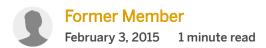
## Community

Ask a Question Write a Blog Post



# **Regular Expression in ABAP**

Follow RSS feed Like

2 Likes 19,184 Views 5 Comments

In an Upload file (Excel sheet ) I had a requirement to validate the amount ( currency ). Below were the validations to be considered for the string containing the amount

- 1. The string must contains numbers and decimal dot only(optional decimal).
- 2. There must be only 13 digits before decimal and 2 digits after decimal.
- 3. There should not be any special characters in the string apart from decimal point.
- 4. Only one decimal point should be used in the string.

To achieve this initially, I used the below logic on the sting <amount>.

1. <amount> contains only (1234567890.)

1. Separate the <amount> into <first\_part> <second\_part> <third\_part> at '.' Find the length of <first\_part>. Find the length of <second\_part>. Check <first\_part> < 13 and <second\_part> < 2. Check <third\_part> is initial. 1. <amount> is less than 0. This all validation takes nearly around 25 – 30 lines of code. But, after knowing the Regular expression concept I revised this 25 – 30 lines of code into just 1 line as below. FIND ALL OCCURRENCES OF regex  $((0-9)\d(0,12))(.[0-9]\{0,2\})$ ? IN <amount> MATCH COUNT sy-tabix. sy-tabix = 1 => its true/correct. **sy-tabix = 0** => its wrong/incorrect. Brief Explanation. Syntax: FIND ALL OCCURRENCES OF regex < Expression > in < String > Match Count < Variable > . **Regular Expression**:  $^([0-9]\d{0,12})(\.[0-9]{0,2})?$ \$ ^: Matches the starting position within the string (): The string matched within the parentheses can be recalled later. []: Matches a character that is contained within the brackets.

- : Specifies a range.
{}: Number of characters.
\d: Digits.
\.: Mandatory dot.
? : Indicates there is zero or one of the preceding element.
\$ : Matches the ending position of the string.
[0-9] : Digits only any number between 0 to 9.
{0,12} : Up to 13 characters allowed only before decimal.
(0,2) : up to 2 characters allowed only after decimal.
Regards
Rounak
Alert Moderator
Assigned tags

#### **Related Blog Posts**

ABAP Geek 14 – Regular Expressions Made Easy

By Horst Keller, Sep 10, 2009

Regular expression searching in the new ABAP editor

By Peter Inotai, May 15, 2008

Use Regular Expression to parse the image reference in the markdown sourcre code

By Jerry Wang, Jul 15, 2017

#### **Related Questions**

**ABAP Regular Expression** 

By Former Member, May 29, 2014

Regular expression

By Former Member, Apr 28, 2011

reqular expression in ABAP

By Former Member, Feb 21, 2007

### **5 Comments**

You must be Logged on to comment or reply to a post.



Former Member

February 3, 2015 at 1:04 pm

You can avoid putting sy-tabix in write position.

Regular expression can be simplified as below and sy-subrc = 0 means correct:

FIND REGEX '^\d{0,13}\.\d{0,2}\$' IN lv\_string.

Like (0)



Former Member | Post author

February 6, 2015 at 4:48 am

Thank U Manish..



Like (0)



Former Member

March 17, 2015 at 11:42 am

Hi Rounak,



MNK

Regards,

Like (0)



Noman Mohamed Hanif

October 18, 2017 at 4:41 am

Hi Rounak,

I have a requirement to get values of currency from non-currency fields and validate for valid currency by adding decimal, separators. I tried using your regular expression but that does not seem to work in my case. I made a small change since XREF1 is only 12 characters I changed to {0,9} but the sy-tabix is always 0.

Below is my code:

```
DATA: lv tabix TYPE sy-tabix.
IF bseg-xref1 IS NOT INITIAL.
  REPLACE ALL OCCURRENCES OF c sep
  IN bseg-xref1 WITH space.
 CONDENSE bseg-xref1.
 lv aed curr = bseg-xref1.
 lv aed curr1 = lv aed curr.
 FIND ALL OCCURRENCES OF REGEX '^([0-9]\d{0,9})(\.[0-9]{0,2})?$'
 IN lv_aed_curr1 MATCH COUNT lv_tabix.
 IF lv tabix = 1.
* Add separators to the acquired currency
    CALL FUNCTION 'HRCM_AMOUNT_TO_STRING_CONVERT'
     EXPORTING
      betrg = lv aed curr1
     IMPORTING
      string = bseg-xref1.
   CONDENSE bseg-xref1.
  ELSE.
    MESSAGE e730(zzfn) WITH 'Please enter a valid amount currency'.
```

ENDIF. *ENDIF.
Expecting a reply soon.  Like (0)
Tulasi Deepthi Loya December 5, 2019 at 5:38 am Hi All, have a requirement to replace all occurrences of special characters in the string with space. Any character in the string which is not a number or character should be replaced with space. Can you please guide me how can this be acheived using REGEX.
Thanks Regards,
Tulasi

Privacy	Terms of Use
Legal Disclosure	Copyright
Trademark	
Newsletter	Support