

## Re: Number sequence

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*Source:* <http://www.tech-archive.net/Archive/Access/microsoft.public.access.forms/2007-08/msg00911.html>

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- *From:* "tina" <nospam@xxxxxxxxxxxx>
  - *Date:* Tue, 21 Aug 2007 01:54:41 GMT
- 

well, you're welcome, though it sounds like it's not going to be useful to you. but you can always learn from reading other people's code, so here it is:

```
Public Function GenNextSequence2(ByVal tbl As String, _  
ByVal fld As String) As String
```

```
Dim rst As DAO.Recordset, strSQL As String  
strSQL = "SELECT Max(CLng(Right([" & fld _  
& "],Len([" & fld & "]-3))) AS SeqVal " _  
& "FROM " & tbl & " WHERE (((Left([" _  
& fld & "],2))=Right(Year(Date()),2)))"
```

```
Set rst = CurrentDb.OpenRecordset(strSQL, dbReadOnly)
```

```
GenNextSequence2 = Right(Year(Date), 2) _  
& "-" & Format(Nz(rst("SeqVal"), 0) + 1, "0000")
```

```
End Function
```

as for forcing users to enter four digits, looks like Uprider's code should work. i'd have thought that an input mask would, as well – but we're working pretty much in the dark here re the tables and forms setup and how the program runs.

if there's anything else i can do to help you out, don't hesitate to ask. i pretty much have a standing offer of assistance to anyone in firefighting, law enforcement, or military.

hth

"Mark G" <MarkG@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
<news:5AD209B1-E931-4127-9768-1029614323EF@xxxxxxxxxxxxxxxxxxxx>

Thank you Tina for all the work you put into this. I would be curious to

see

## Re: Number sequence

the code you wrote. I did a few tests with UpRiders solution and it seemed

to work well as long as the four digit format is used. If it is allowed to

automatically assign the numbers I don't think there will be a problem, but

we have people who insist on entering the run number on their own and only use two or three digits. I tried to use an input mask to force the correct

format but it didn't work. Would this be because of the custom code? I tried it in both the table properties and also the field properties on the form.

Thanks again Tina for the time you put into it  
Mark

"tina" wrote:

yes, the code does use that custom function also. (very good catch!)

okay, the problem with the code is that it is not incrementing a \*number\*,

such as 999. instead, it is incrementing each \*character\* in the string "-999" as a text value; so it is looking at "9" and returning a zero for each "9" value (because no single character number is higher than 9),

then

incrementing the dash (-) to the next Ascii character, which is a period

or

dot. that accounts for the return value of "07.000" that i got when i

tested

the code.

the suggestion posted by UpRider would solve your immediate problem, i think. but you're going to run into the same issue every year, unless

## Re: Number sequence

you

have less than 1000 fire runs in a year. i can post an alternate

function

that will automatically increment the number, from 1 up to 9999 (i'm guessing you'll never have that many runs in one year!). i wrote the function to automatically restart the increment on the first record of

each

new year – based on the assumption that if you log a run at 12:01 AM on

Jan

1, you will want that run to count as the first run of the new year. if

you

have lag time between the run and the logging of it, that may be an

issue

for you.

here are some other issues you have to consider: whether you use my solution or Uprider's, you're going to have problems with sorting the

stored

values in the table. because the value is Text, you won't get the right sequence from \*this year's\* records. instead, an ascending sort on the

field

will return

001

002

....

099

100

1000

1001

....

1009

101

1010

1011

....

Re: Number sequence

1019  
102  
1020  
1021  
....  
1029  
103  
1030  
1031  
....  
1039  
104  
etc, etc.

you can address this issue by using an Update query to change all the existing RUN# field values for 2007 to match the "-0000" format. this

isn't

hard to do, but you'll want to make a COPY of the database as a backup FIRST, so if you hose the data you can start over with a new copy of the backup.

another issue with my solution is that we don't know where else the

original

GenNextSequence() function may be called. if it is called elsewhere in

the

database, you may end up with conflicting data at some point. it's impossible to say for sure without seeing the database itself.

if you want to see the alternate function i wrote, and/or if you want

help

with writing an Update query, or have any other questions, post back

hth

"Mark G" <MarkG@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:4E333217-EF4C-48CC-A39F-D43EBE796352@xxxxxxxxxxxxxxxxxxxxx](mailto:news:4E333217-EF4C-48CC-A39F-D43EBE796352@xxxxxxxxxxxxxxxxxxxxx)

It looks like it also uses "incrementdigit" Here is that one as well.

Function IncrementDigit(c As Byte) As Byte

## Re: Number sequence

{increments a digit in a sequence field. Returns true if there is no

carry,

false if another

' carry operation on the next most significant digit must be

performed. }

' begin

If (Chr(c) <> "9") And (UCase(Chr(c)) <> "Z") Then

IncrementDigit = c + 1

Else

If c = Asc("9") Then IncrementDigit = Asc("0")

If c = Asc("z") Then IncrementDigit = Asc("a")

If c = Asc("Z") Then IncrementDigit = Asc("A")

End If

End Function

Thanks

Mark

"tina" wrote:

well, i see that the function is using another custom function, "AdvanceSequence()". since i don't see anything that would account

for

the

result you described (07.0000), i think we'll need to see that

function

procedure too. find the function, the same way you found the first

one,

and

post the code, please.

hth

Re: Number sequence

"Mark G"

<MarkG@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:49EAB3D6-7744-4531-B6A9-EA910429D52B@xxxxxxxxxxxxxxxxxxxx

Thank you for the quick  
reply, and the instructions.  
Here is the

information.

Public Function  
GenNextSequence(TableName,  
FieldName, Seed)  
' gets next sequence value  
from TableName and  
FieldName, Seed is

the

starting value  
Dim rs

On Error Resume Next  
Seed = Nz(Seed, "0")  
Set rs =  
CurrentDb.OpenRecordset("Select  
TOP 1 [" & FieldName &

"]

as

SeqVal from [" &  
TableName & "] ORDER  
BY [" & FieldName & "]

DESC")

If Not rs.EOF Then Seed =  
CStr(If(Nz(rs("SeqVal"),  
"") = "",

Seed,

rs("SeqVal"))))  
GenNextSequence =  
AdvanceSequence(CStr(Seed))  
If Err Then

Re: Number sequence

```
GenNextSequence =  
"#SeqErr"  
rs.Close  
Set rs = Nothing
```

End Function

Thanks  
Mark

"tina" wrote:

looks like a  
custom  
function:  
GenNextSequence().  
assuming  
that

this

is

where the  
number  
assignment  
is actually  
coming  
from, we'd  
need

to

see

the

function  
procedure  
in order to  
make  
recommendations.

open your  
database,  
and open  
any module  
on the  
Modules  
tab. from

the

menu

bar, click  
Edit | Find.  
in the Find  
dialog, type  
"Function

GenNextSequence("

only  
without the  
double  
quotes. in  
the Search  
section  
below,

choose

Current

Project,  
then click  
Find Next.

you should  
find the  
function  
procedure,  
which starts  
with the

line

you

typed

in (Function  
may be  
preceded by  
Public), and  
ends with  
"End

Function" –

Re: Number sequence

again, sans  
quotes.  
copy the  
entire  
procedure  
from  
beginning  
to

end,

and

paste it into  
a post, so  
we can see  
it.

hth

"Mark G"

<MarkG@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in  
message

[news:585481AD-82D6-44E9-85B4-BE8570063882@xxxxxxxxxxx](mailto:news:585481AD-82D6-44E9-85B4-BE8570063882@xxxxxxxxxxx)

We  
have  
a  
field  
in  
one  
of  
our  
forms  
in  
our  
database  
that

automatically

generates  
a  
run  
number  
for  
fire  
calls  
in

Re: Number sequence

sequence.  
The  
format

that we

use

is

07-999.  
Everything  
was  
working  
fine  
until  
we  
hit  
what  
should

have

been

07-1000.  
Now  
when  
it  
is  
supposed  
to  
assign  
the  
next  
number  
in

the

sequence

it  
displays  
07.0000.  
Any  
help  
would  
be  
greatly  
apreciated.

Re: Number sequence

I

just

dabble

with  
access  
and  
have  
no  
formal  
training  
which  
is  
more  
than  
the

rest of

the

department,  
and  
since  
I  
do  
I  
kind  
of  
inherited  
this  
database

we

are

using.

This  
code  
is  
in  
a  
tab  
labeled  
"calculations"  
on  
a

Re: Number sequence

Re: Number sequence

subform.

I

think

this

is

what

is

telling

the

field

what

to

do.

=GenNextSequence("daylog3","RUN#","05-0001").

I

would

like

it

to

transition

from

07-999

to

07-1000

just

as

it

did

for

the

first

999

numbers.

Thanks

Mark

Re: Number sequence