
Quote the SASLOG ...

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HSN



Introduction

Quote the SASLOG ...

Hi

Oksana [REDACTED]@gmail.com>
To: KuligowskiConference@gmail.com

Thu, Nov 5, 2015 at 1:27 PM

Hi. My name is Oksana. I am from Ukraine



Spam?



Introduction

Quote the SASLOG ...

Hi

Oksana [REDACTED]@gmail.com>
To: KuligowskiConference@gmail.com

Thu, Nov 5, 2015 at 1:27 PM

Hi. My name is Oksana. I am from Ukraine

I'm studying SAS now cause I want to change my profession

I've just written your "[The BEST.Message in the SASLOG](#) "

Actually I'm working on the test task now and I have such error message : ' The quoted string currently being processed has become more than 262 characters long. You may have unbalanced quotation marks.'

Could you help me please. It's my first sas task, it's just 'simple listing', but I don't understand...

Best regards

Oksana

Not Spam!

Find & Fix the Problem

Quote the SASLOG ...

WARNING: The quoted string currently being processed has become more than 262 characters long. You might have unbalanced quotation marks.



Find & Fix the Problem

Quote the SASLOG ...
Stop the Bleeding First!

```
=====
; *'; *"; */;

ODS _ALL_ CLOSE;

quit; run; %MEND;

data _NULL_; put "DONE"; run;
```

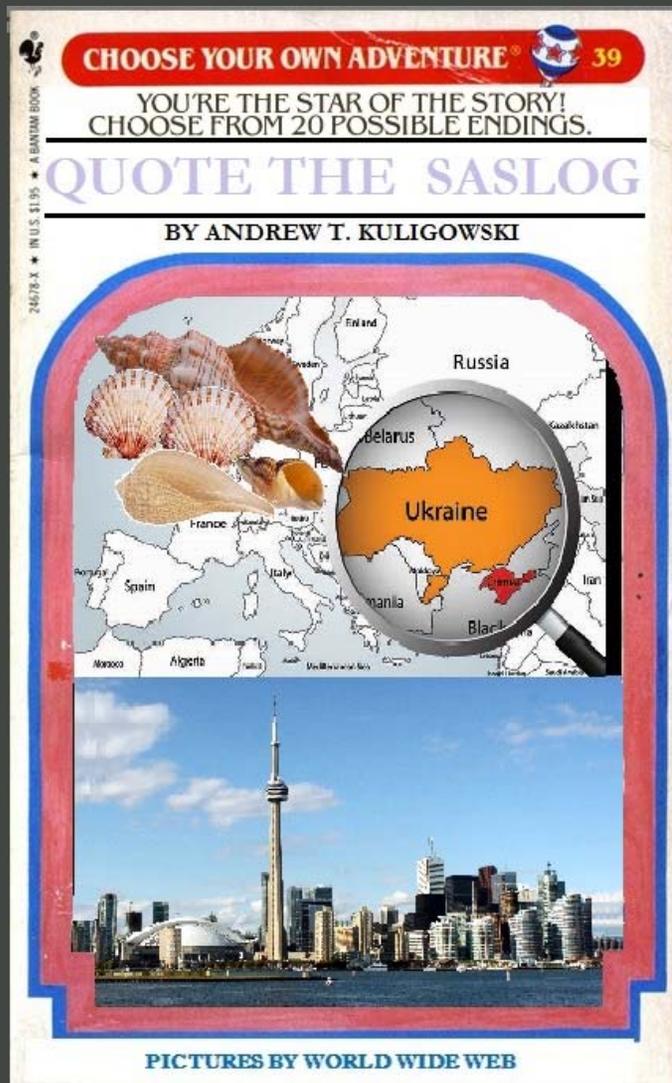


Repeat as Necessary



Find & Fix the Problem

Quote the SASLOG ...
*How Might We Resolve This
Perplexing Dilemma?*



APPROACH #1

APPROACH #2

APPROACH #3

APPROACH #4

ENOUGH OF
THIS - ONWARD

Log

Source

It's not easy being
green

Other



Find & Fix the Problem

Quote the SASLOG ...
*Identify the SASLOG Line
containing the Error Message*

```
DATA TEMP ;
```

```
  INFILE
```

```
    "/SASLOGs/SAMPLE-OpenEndedQuote.log";
```

```
  INPUT ;
```

```
  IF FIND( LOWCASE( _INFILE_ ),  
          '262 characters' )
```

```
    THEN LineNum_Error = 1 ;
```

```
RUN;
```



Find & Fix the Problem

Quote the SASLOG ...

Identify the SASLOG Line

containing the Error Message

... and the ones containing ...

APPROACH #1

```
DATA TEMP ;
  LENGTH Line_of_Data $ 200. ;
  INFILE "/SASLOGs/SAMPLE-OpenEndedQuote.log";
  INPUT ;
  IF FIND( LOWCASE( _INFILE_ ),
           '262 characters' ) THEN
    LineNum_Error = 1 ;
  Line_of_Data = _INFILE_ ;
  Find_SingleQuote = FIND( _INFILE_, "'" );
  Find_DoubleQuote = FIND( _INFILE_, '"' );
  IF LineNum_Error OR Find_SingleQuote
     OR Find_DoubleQuote THEN
    OUTPUT;
RUN;
```

Find & Fix the Problem

Quote the SASLOG ...
Identify the SASLOG Line
containing the Error Message

DATA TEMP ;

APPROACH #1

Open

change

) ;

) ;

Finish

	Line_of_Data	LineNum_Error	Find_SingleQuote	Find_DoubleQuote	Log_LineNum
1	initialization. Edit the file "news" in the "misc/base" directory to		0	32	23
2	The command line option "-nonews" will prevent this display.		0	25	25
3	2 RETAIN Char_Constant 'X' ;		0	30	73
4	15 PUTLOG @ 1 'Number:' @ 9_N_2. @ 12 Order_Random 2.		21	0	86
5	WARNING: The quoted string currently being processed has become more than 262 characters long. You might have unbalanced quotation marks.	1	0	0	87
6	16 @ 15 '(' @ 16 Sort_Order 11.8 @ 25 ')' ;		21	0	88
7	21 RETAIN Char_Constant 'X' ;		30	0	93
8	34 PUTLOG @ 1 'Number:' @ 9_N_2. @ 12 Order_Random 2.		21	0	106
9	35 @ 15 '(' @ 16 Sort_Order 11.8 @ 25 ')' ;		21	0	107
10	39 RETAIN Char_Constant 'X' ;		30	0	111
11	52 PUTLOG @ 1 'Number:' @ 9_N_2. @ 12 Order_Random 2.		21	0	124
12	53 @ 15 '(' @ 16 Sort_Order 11.8 @ 25 ')' ;		21	0	125
13	55 "; run;		0	6	127

... and the ones with
the quotation marks

Find & Fix the Problem

Quote the SASLOG ...
*Identify the SASLOG Line
containing the Error Message*

```
DATA TEMP ;
```

APPROACH #1

```
Open
```

```
change
```

```
) ;
```

```
) ;
```

```
Finish
```

	Line_of_Data	LineNum_Error	Find_SingleQuote	Find_DoubleQuote	Log_LineNum
1	initialization. Edit the file "news" in the "misc/base" directory to		0	32	23
2	The command line option "-nonews" will prevent this display.		0	25	25
3	2 RETAIN Char_Constant "X ;		0	30	73
4	15 PUTLOG @ 1 'Number:' @ 9_N_2. @ 12 Order_Random 2.		21	0	86
5	WARNING: The quoted string currently being processed has become more than 262 characters long. You might have unbalanced quotation marks.	1	0	0	87
6					
7					
8					
9					
10					
11					
12					

*... and the ones with
the quotation marks*

Find & Fix the Problem

Quote the SASLOG ...
Identify the SASLOG Line
containing the Error Message

DATA TEMP ;

	Line_of_Data	LineNum_Error	Find_SingleQuote	Find_DoubleQuote	Log_LineNum
1	initialization. Edit the file "news" in the "misc/base" directory to		0 0	4 32	✓ 23
2	The command line option "-nonews" will prevent this display.		0 0	2 25	✓ 25
3	2 RETAIN Char_Constant "X ;		0 0	1 30	← 73
4	15 PUTLOG @ 1 'Number:' @ 9_N_2. @ 12 Order_Random 2.		2 21	0 0	✓ 86
5	WARNING: The quoted string currently being processed has become more than 262 characters long. You might have unbalanced	1	0	0	87

BACK TO
OPTIONS

CAN WE WRITE
CODE TO DO
THIS?

ENOUGH OF
THIS - ONWARD

The simple way (when possible)

APPROACH #1

- Look at the lines from the SASLOG.
- Count the quotation marks.
- Find the mismatched one(s).

Find & Fix the Problem

Quote the SASLOG ...
"Quotecounter"

```
DATA TEMP2;  
  SET TEMP;  
  Find_SQuote = 0 ;    Count_SQuote = 0 ;  
  Find_DQuote = 0 ;    Count_DQuote = 0 ;  
  DO UNTIL( NOT( Find_SQuote ) );  
    Find_SQuote = FIND( Line_of_Data, "'", Find_SQuote+1 );  
    IF Find_SQuote THEN Count_SQuote = Count_SQuote + 1;  
  END;  
  DO UNTIL( NOT( Find_DQuote ) );  
    Find_DQuote = FIND( Line_of_Data, '"', Find_DQuote+1 );  
    IF Find_DQuote THEN Count_DQuote = Count_DQuote + 1;  
  END;  
  Unbalanced_SingleQuote_IND = MOD( Count_SQuote, 2 );  
  Unbalanced_DoubleQuote_IND = MOD( Count_DQuote, 2 );  
  . . .
```

APPROACH #1A

Find & Fix the Problem

Quote the SASLOG ...
"Quotecounter"

```
DATA TEMP2;
```

```
  SET TEMP;
```

```
  Find_SQuote = 0 ;    Count_SQuote = 0 ;
```

```
  Find_DQuote = 0 ;    Count_DQuote = 0 ;
```

```
  DO UNTIL( NOT( Find_SQuote ) ) ;
```

```
    Find_SQuote = FIND( Data, "'" ) ;
```

```
    IF Find_SQuote = 0 THEN Count_SQuote = Count_SQuote + 1 ;
```

```
  END;
```

```
  Count_SingleQuote=0
```

```
  Count_SingleQuote=0
```

```
  Count_SingleQuote=0
```

```
  Count_SingleQuote=2
```

```
  Count_SingleQuote=0
```

```
    Count_DoubleQuote=4
```

```
    Count_DoubleQuote=2
```

```
    Count_DoubleQuote=1
```

```
    Count_DoubleQuote=0
```

Check Double Quote

APPROACH #1A

BACK TO
OPTIONS

ENOUGH OF
THIS - ONWARD

Find & Fix the Problem

Quote the SASLOG ...
*Count Quotation Marks in the
Source Code*

APPROACH #2

```
DATA TEMP_A2 ;
  LENGTH Line_of_Data $ 200. ;
  INFILE
    "/export/SAS/CRM/users/kuligowskia/SourceCode/
    SAMPLE-OpenEnded_Quote.sas";
  INPUT ;
  Find_SQuote = 0 ;    Count_SQuote = 0 ;
  Find_DQuote = 0 ;    Count_DQuote = 0 ;
  DO UNTIL( NOT( Find_SQuote ) );
    Find_SQuote = FIND( _INFILE_, "'", Find_SQuote+1 );
    IF Find_SQuote THEN Count_SQuote = Count_SQuote + 1;
  END;
  DO UNTIL( NOT( Find_DQuote ) );
    Find_DQuote = FIND( _INFILE_, '"', Find_DQuote+1 );
    IF Find_DQuote THEN Count_DQuote = Count_DQuote + 1;
  END;
  . . .
```

Find & Fix the Problem

Quote the SASLOG ...

Count Quotation Marks in the
Source Code

APPROACH #2

```
...
Log_LineNum = _N_ ;
Line_of_Data = _INFILE_ ;
Unbalanced_SingleQuote_IND = MOD( Count_SQuote, 2 ) ;
Unbalanced_DoubleQuote_IND = MOD( Count_DQuote, 2 ) ;
IF Count_SQuote > 0 OR Count_DQuote > 0 THEN DO;
    PUTLOG @ 1 Log_LineNum 5. @ 6 " : "
           @ 8 Count_SQuote = 2.
           @ 30 Count_DQuote = 2. @ ;
    IF Unbalanced_SingleQuote_IND THEN
        PUTLOG @ 52 "Check Single Quote" @ ;
    IF Unbalanced_DoubleQuote_IND THEN
        PUTLOG @ 72 "Check Double Quote" @ ;
    PUTLOG / @ 11 "SOURCE: " Line_of_Data ;
END;
RUN;
```



Find & Fix the Problem

Quote the SQL

```
2: Count_SQuote=0
Check Double Quote
SOURCE: RETAIN Char_Constant 'X';
Count_DQuote=1 @ 12

15: Count_SQuote=2
SOURCE: PUTLOG @ 1 'Number: ' @ 9 _N_ 2.
Count_DQuote=0 @ 12

Order_Random 2.
Count_SQuote=4
SOURCE: @ 15 '('
Count_DQuote=0 @ 16 Sort_Order 11.8 @ 25 ')' ;

21: Count_SQuote=2
SOURCE: RETAIN Char_Constant 'X';
Count_DQuote=0 @ 12

34: Count_SQuote=2
SOURCE: PUTLOG @ 1 'Number: ' @ 9 _N_ 2.
Count_DQuote=0 @ 16 Sort_Order 11.8 @ 25 ')' ;

Order_Random 2.
Count_SQuote=4
SOURCE: @ 15 '('
Count_DQuote=0 @ 12

39: Count_SQuote=2
SOURCE: RETAIN Char_Constant 'X';
Count_DQuote=0 @ 16 Sort_Order 11.8 @ 25 ')' ;

52: Count_SQuote=2
SOURCE: PUTLOG @ 1 'Number: ' @ 9 _N_ 2.
Count_DQuote=0 @ 12

Order_Random 2.
Count_SQuote=4
SOURCE: @ 15 '('
Count_DQuote=0 @ 16 Sort_Order 11.8 @ 25 ')' ;
```



Find & Fix the Problem

Quote the SASLOG ...
*Sit Back and let the Enhanced
Editor do the work for you!*

```
SAS3: Program Editor-SAMPLE-OpenEnded_Quote.sas
File Edit View Tools Run Solutions Help
Autosave complete
00001 DATA Pick_Your_Numbers;
00002     RETAIN Char_Constant "X";
00003     DO Order_Random = 1 TO 100;
00004         Sort_Order = RANUNI(0);
00005         OUTPUT;
00006     END;
00007 RUN;
00008
00009 PROC SORT DATA=Pick_Your_Numbers;
00010     BY Sort_Order;
00011 RUN;
00012
00013 DATA _NULL_;
00014     set Pick_Your_Numbers(Firstobs=1 OBS=6);
00015     PUTLOG @ 1 'Number:' @ 9 _N_ 2. @ 12 Order_Random 2.
00016           @ 15 '(' @ 16 Sort_Order 11.8 @ 25 ')';
00017 RUN;
00018
00019
00020 DATA Pick_Your_Numbers2;
00021     RETAIN Char_Constant 'X';
00022     DO Order_Random = 1 TO 100;
00023         Sort_Order = RANUNI(0);
00024         OUTPUT;
00025     END;
00026 RUN;
00027
```

APPROACH #3

*WHERE DOES
IT TURN GREEN
AND STAY THAT
WAY?*

BACK TO
OPTIONS

ENOUGH OF
THIS - ONWARD

**Find & Fix
the Problem**

Quote the SASLOG ...
Other Solutions Are Out There ...

AWESOME !!

APPROACH #4

**I did not work out a plan of attack
in advance for that idea!**

Let's discuss it ...

**BACK TO
OPTIONS**

**ENOUGH OF
THIS - ONWARD**

Find & Fix the Problem

Quote the SASLOG ... *Possible Complications*

```
*'; *";
```

```
Find_SQuote = FIND(  
Line_of_Data, "'", Find_SQuote+1 );  
Find_DQuote = FIND(  
Line_of_Data, '"', Find_DQuote+1 );
```

```
/* I can't resolve this quote */
```

```
X = "Let''s put a quote in here.";
```



Conclusion

Quote the SASLOG ...

Assisting your professional colleagues can lead to your own professional growth.

There's more than one way to ~~skin a cat.~~
Solve a SAS Coding problem.



Conclusion POSTSCRIPT

Oksana and her
son say "hi".

(YES, she turned
out to be real!)

Quote the SASLOG ...

