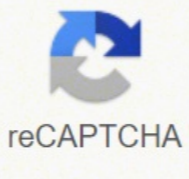




I'm not robot



reCAPTCHA

Open

# Format sql statement notepad

Allowed services  Blob  File  Queue  Table

Allowed resource types  Service  Container  Object

Allowed permissions  Read  Write  Delete  List  Add  Create  Update  Process

Start and expiry date/time

Start: 2018-03-18 12:03:39 PM

End: 2018-03-19 8:03:39 PM

(UTC+02:00) --- Current Timezone ---

Allowed IP addresses

Allowed protocols  HTTPS only  HTTPS and HTTP

Signing key

key1

```
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
new 2
1 PK;Name;InvoiceNumber;InvoiceDate,ReferenceNumber,DueDate,Amount
2 12688564;Tomas Lind;123456;2016-02-17;111;2016-03-17;1000
3 101;Mr X;88;2016-02-07;0;2016-03-17;100
4
```



## Open Source Development with CVS

3RD EDITION

Moshe Bar  
Karl Fogel



Replacing ASCII Printable Characters The American Standard Code for Information Interchange (ASCII) is one of the generally accepted standardized numeric codes for representing character data in a computer. References ASCII Function Difference Between ANSI and ASCII CHAR Function 470,200 Views Thus, we have successfully managed to remove "invisible" special characters. This means if the email address data contained special characters with ASCII numerical value 8 then we wouldn't have removed them as we had hardcoded our script to specifically look for CHAR(1) and CHAR(9). Only using advanced text editors such as Notepad++ are we then able to visualize the special characters in the data, as shown in Figure 4. LEN((Column 0)) OriginalLength, LEN(REPLACE(REPLACE((Column 0), CHAR(1), ''), CHAR(9), '')) NewLengthFROM [SQLShack].[dbo].[OLE DB Destination]; Script 7 After executing Script 7, we can see in Figure 6 that the length of all email address rows matches back to the length of row 1 - which was originally the correct email address. LEN((Column 0)) OriginalLength, LEN(REPLACE(REPLACE(LTRIM(LTRIM((Column 0))), ' ', ''), ' ', '')) NewLengthFROM [SQLShack].[dbo].[OLE DB Destination]; Script 5 Figure 5 So how do we replace what we cannot see? Numeric Code Character Description 33 ! Exclamation Mark 35 # Number 36 \$ Dollar 37 % Percent 38 & Ampersand Table 1: ASCII Printable Characters (Source: RapidTables.com) When it comes to addressing data quality issues in SQL Server, it's easy to clean most of the ASCII Printable Characters by simply applying the REPLACE function. Furthermore, if you go back to Script 4, you will recall that for the 3rd email address, I included the start of header character at the end of the email address, but looking at the data in Figure 3, the start of header character is not easily visible at the end of that 3rd email address. This could involve looking up foreign keys, converting values from one data type into another, or simply conducting data clean-ups by removing trailing and leading spaces. Thus our script changes from: DECLARE @email VARCHAR(55)= 'johndoe@abc.com';SELECT REPLACE(@email, '!'); To using: DECLARE @email VARCHAR(55)= 'johndoe@abc.com';SELECT REPLACE(@email, CHAR(33), ''); Script 6 Now going back to cleaning email address data out of the output.txt text file, we can rewrite our script to what is shown in Script 7. Replace String using Character Codes The simplest way to replace what we cannot see is that instead of hardcoding the string to replace into our REPLACE function, we should hardcode the string to be replaced by hardcoding its ASCII numerical code within the CHAR function. Table 2 shows a sample list of the ASCII Control Characters. If we were to run the REPLACE T-SQL function against the data as we did in Script 3, we can already see in Figure 5 that the REPLACE function was unsuccessful as the length of data in the original column is exactly similar to the length calculated after having applied both REPLACE and TRIM functions. Such characters typically are not easy to detect (to the human eye) and thus not easily replaceable using the REPLACE T-SQL function. Thus, instead of providing an exclamation mark as the string to replace, we can hardcode the ASCII numerical code for exclamation mark - which is 33 and convert that numeric code back to character code using the CHAR function. However, when it comes to removing special characters, removal of ASCII Control Characters can be tricky and frustrating. One aspect of transforming source data that could get complicated relates to the removal of ASCII special characters such as new line characters and the horizontal tab. One of the important steps in an ETL process involves the transformation of source data. using (StreamWriter writer = new StreamWriter('C:\temp\output.txt')) string vd = "johndoe@abc.com"; writer.WriteLine(char)1 + vd); writer.WriteLine(char)9 + vd + (char)1); writer.WriteLine(char)9 + vd); Script 4 A preview of the output.txt text file populated by Script 4 is shown using the Windows Notepad.exe program in Figure 3. For instance, say we have successfully imported data from the output.txt text file into a SQL Server database table. Figure 6 Dynamically Detect and Replace ASCII Characters One noticeable limitation of Script 7 is that we have hard-coded the list of ASCII numerical values. Say for instance that source data contains an email address for John Doe that has several invalid special characters as shown in Script 2. CREATE FUNCTION [dbo].[ReplaceASCII](@inputString VARCHAR(8000)) DECLARE @badStrings VARCHAR(100); DECLARE @increment INT= 1; WHILE @increment

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