

Part 24 – String functions Continued

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In this session we will learn

- Few more commonly used built-in string functions in SQL server
 - Replicate
 - Space
 - Patindex
 - Replace
 - Stuff

Pre-requisite:

Part 22 – Built in string functions in sql server

Part 23 – String functions continued

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REPLICATE Function

REPLICATE(String_To_Be_Replicated, Number_Of_Times_To_Replicate)

Repeats the given string, for the specified number of times.

FirstName	LastName	Email
Sam	Sony	Sam@aaa.com
Ram	Barber	Ram@aaa.com
Sara	Sanosky	Sara@ccc.com
Todd	Gartner	Todd@bbb.com
John	Grover	John@aaa.com
Sana	Lenin	Sana@ccc.com
James	Bond	James@bbb.com
Rob	Hunter	Rob@ccc.com
Steve	Wilson	Steve@aaa.com
Pam	Broker	Pam@bbb.com



FirstName	LastName	Email
Sam	Sony	Sa*****@aaa.com
Ram	Barber	Ra*****@aaa.com
Sara	Sanosky	Sa*****@ccc.com
Todd	Gartner	To*****@bbb.com
John	Grover	Jo*****@aaa.com
Sana	Lenin	Sa*****@ccc.com
James	Bond	Ja*****@bbb.com
Rob	Hunter	Ro*****@ccc.com
Steve	Wilson	St*****@aaa.com
Pam	Broker	Pa*****@bbb.com

Mask the email with 5 * (star) symbols

```
Select FirstName, LastName,  
SUBSTRING(Email, 1, 2) + REPLICATE('*',5) +  
SUBSTRING(Email, CHARINDEX('@',Email), LEN(Email) - CHARINDEX('@',Email)+1) as Email  
from tblEmployee
```

SPACE Function

SPACE(Number_Of_Spaces)

Returns number of spaces, specified by the Number_Of_Spaces argument.

FirstName	LastName	Email
Sam	Sony	Sam@aaa.com
Ram	Barber	Ram@aaa.com
Sara	Sanosky	Sara@ccc.com
Todd	Gartner	Todd@bbb.com
John	Grover	John@aaa.com
Sana	Lenin	Sana@ccc.com
James	Bond	James@bbb.com
Rob	Hunter	Rob@ccc.com
Steve	Wilson	Steve@aaa.com
Pam	Broker	Pam@bbb.com



FullName
Sam Sony
Ram Barber
Sara Sanosky
Todd Gartner
John Grover
Sana Lenin
James Bond
Rob Hunter
Steve Wilson
Pam Broker

The SPACE(5) function, inserts 5 spaces between FirstName and LastName

```
Select  FirstName + SPACE(5) + LastName as FullName
From    tblEmployee
```

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PATINDEX Function

PATINDEX('%Pattern%', Expression)

Returns the starting position of the first occurrence of a pattern in a specified expression. It takes two arguments, the pattern to be searched and the expression. PATINDEX() is simial to CHARINDEX(). With CHARINDEX() we cannot use wildcards, where as PATINDEX() provides this capability. If the specified pattern is not found, PATINDEX() returns ZERO.

FirstName	LastName	Email
Sam	Sony	Sam@aaa.com
Ram	Barber	Ram@aaa.com
Sara	Sanosky	Sara@ccc.com
Todd	Gartner	Todd@bbb.com
John	Grover	John@aaa.com
Sana	Lenin	Sana@ccc.com
James	Bond	James@bbb.com
Rob	Hunter	Rob@ccc.com
Steve	Wilson	Steve@aaa.com
Pam	Broker	Pam@bbb.com

Email	FirstOccurence
Sam@aaa.com	4
Ram@aaa.com	4
John@aaa.com	5
Steve@aaa.com	6

```
Select Email, PATINDEX('%aaa.com', Email) as FirstOccurence
from   tblEmployee
Where  PATINDEX('%aaa.com', Email) > 0
```

REPLACE Function

REPLACE(String_Expression, Pattern , Replacement_Value)

Replaces all occurrences of a specified string value with another string value.

FirstName	LastName	Email
Sam	Sony	Sam@aaa.com
Ram	Barber	Ram@aaa.com
Sara	Sanosky	Sara@ccc.com
Todd	Gartner	Todd@bbb.com
John	Grover	John@aaa.com
Sana	Lenin	Sana@ccc.com
James	Bond	James@bbb.com
Rob	Hunter	Rob@ccc.com
Steve	Wilson	Steve@aaa.com
Pam	Broker	Pam@bbb.com



Email	ConvertedEmail
Sam@aaa.com	Sam@aaa.net
Ram@aaa.com	Ram@aaa.net
Sara@ccc.com	Sara@ccc.net
Todd@bbb.com	Todd@bbb.net
John@aaa.com	John@aaa.net
Sana@ccc.com	Sana@ccc.net
James@bbb.com	James@bbb.net
Rob@ccc.com	Rob@ccc.net
Steve@aaa.com	Steve@aaa.net
Pam@bbb.com	Pam@bbb.net

All .COM strings are replaced with .NET

```
Select Email, REPLACE (Email, '.com', '.net') as ConvertedEmail
from   tblEmployee
```

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STUFF Function

STUFF(Original_Expression, Start, Length, Replacement_expression)

STUFF() function inserts Replacement_expression, at the start position specified, along with removing the characters specified using Length parameter.

FirstName	LastName	Email
Sam	Sony	Sam@aaa.com
Ram	Barber	Ram@aaa.com
Sara	Sanosky	Sara@ccc.com
Todd	Gartner	Todd@bbb.com
John	Grover	John@aaa.com
Sana	Lenin	Sana@ccc.com
James	Bond	James@bbb.com
Rob	Hunter	Rob@ccc.com
Steve	Wilson	Steve@aaa.com
Pam	Broker	Pam@bbb.com



FirstName	LastName	Email	StuffedEmail
Sam	Sony	Sam@aaa.com	S*****aaa.com
Ram	Barber	Ram@aaa.com	R*****aaa.com
Sara	Sanosky	Sara@ccc.com	S*****@ccc.com
Todd	Gartner	Todd@bbb.com	T*****@bbb.com
John	Grover	John@aaa.com	J*****@aaa.com
Sana	Lenin	Sana@ccc.com	S*****@ccc.com
James	Bond	James@bbb.com	J*****s@bbb.com
Rob	Hunter	Rob@ccc.com	R*****ccc.com
Steve	Wilson	Steve@aaa.com	S*****e@aaa.com
Pam	Broker	Pam@bbb.com	P*****bbb.com

```
Select  FirstName, LastName, Email,
         STUFF(Email, 2, 3, '*****') as StuffedEmail
From    tblEmployee
```

Additional Resources

- PRAGIM Home Page:

- <http://www.PragimTech.com>

- Resources:

- ASP.NET Interview Questions
 - <http://www.VenkatASPInterview.Blogspot.com>
 - C# Interview Questions
 - <http://www.VenkatCSharpInterview.Blogspot.com>

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