

Cursos SQL Server 2008 R2

Ejemplos

Lista de funciones creadas:

CrearLista

DetalleCompletoPedidos

Crear Lista

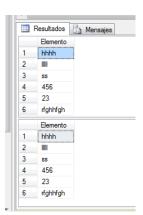
Convierte una cadena que contiene una lista de elementos en una tabla de una sola columna en la que cada elemento está en una fila separada. Cualquier carácter sirve como separador.

Código

```
USE Northwind
CREATE FUNCTION dbo.CrearLista
      (@ArrayDeParam as nvarchar(4000)
      , @Separador as char(1) = '|')
RETURNS @Lista TABLE
      (Elemento sql variant)
AS
BEGIN
      DECLARE @pos int, @pos0 int
      SET @pos0 = 0
      WHILE 1=1
      BEGIN
            SET @pos = CHARINDEX(@Separador, @ArrayDeParam, @pos0 + 1)
            INSERT @Lista
                  SELECT CASE @pos
                        WHEN O THEN SUBSTRING (@ArrayDeParam, @pos0+1,
LEN(@ArrayDeParam) - @pos -1)
                        ELSE SUBSTRING (@ArrayDeParam, @pos0+1, @pos -
@pos0-1)
                        END
            IF @pos = 0 BREAK
            SET @pos0 = @pos
      END
      RETURN
END
GO
```

Ejecutar ejemplo

```
select *
FROM
dbo.CrearLista('hhhh|lllll|ss|456|23|rfghhfgh','|')
GO
select *
FROM
dbo.CrearLista('hhhhalllllassa456a23arfghhfgh','a')
GO
```



DetalleCompletoPedidos

Genera una lista de pedidos con información descriptiva completa:

ProductName, CategoryName, CompanyName, OrderDate y TotalValue con todas las claves principales para vincular con otras tablas.

La lista puede ser generada para cada

```
Order (@Clave = 'ORD'),
Product (@Clave = 'PRO'),
Customer (@Clave = 'CUS'),
Category (@Clave = 'CAT')
o la lista completa (@Clave NOT IN ('ORD', 'PRO', 'CUS', 'CAT'))
```

Tabla Order Details

Detalle de los productos, cantidades y precios para cada pedido en la tabla Orders.

Name	Туре	Description
Discount	Single	Discount percentage applied.
	Long Integer	Same as Order ID in Orders table.
₽ ProductID	Long Integer	Same as Product ID in Products table.
Quantity	Integer	Number of units.
UnitPrice	Currency	Price per unit.

Función PrecioTotal o TotalPrice

Código

```
CREATE FUNCTION dbo.DetalleCompletoPedidos
      (@ID sql variant = NULL,
      @Clave\ char(3) = NULL)
RETURNS @Detalles TABLE
      (OrderID int
      , ProductID int
      , CustomerID nchar(5) NULL
      , CategoryID int NULL
      , OrderDate smalldatetime NULL
      , Value money NULL
      , Category nvarchar(15) NULL
      , Product nvarchar(40) NULL
      , Company nvarchar(40) NULL)
AS
BEGIN
      IF @Clave = 'ORD'
      BEGIN
            INSERT @Detalles (OrderID, ProductID, Value)
                  SELECT OrderID, ProductID,
                        dbo. ImporteTotal (Quantity, UnitPrice, Discount)
                  FROM [Order Details]
                  WHERE OrderID = @ID
      END
      ELSE IF @Clave = 'PRO'
      BEGIN
            INSERT @Detalles
                  (OrderID, ProductID, Value)
```

```
SELECT OrderID, ProductID,
                  dbo. ImporteTotal (Quantity, UnitPrice, Discount)
            FROM [Order Details]
            WHERE ProductID = @ID
END
ELSE IF @Clave = 'CUS'
BEGIN
      INSERT @Detalles
            (OrderID, ProductID, CustomerID, Value)
            SELECT O.OrderID, ProductID, CustomerID,
                  dbo. ImporteTotal (Quantity, UnitPrice, Discount)
            FROM [Order Details] OD
                  JOIN Orders O
                        ON O.OrderID = OD.OrderID
            WHERE CustomerID = @ID
END
ELSE IF @Clave = 'CAT'
BEGIN
INSERT @Detalles
            (OrderID, ProductID, CategoryID, Value)
            SELECT OD.OrderID, P.ProductID, CategoryID,
                  dbo. ImporteTotal(Quantity, OD.UnitPrice, Discount)
            FROM [Order Details] OD
                  JOIN Products P
                        ON P.ProductID = OD.ProductID
            WHERE CategoryID = @ID
END
ELSE
BEGIN
      INSERT @Detalles
            (OrderID, ProductID, Value)
      SELECT OrderID, ProductID,
            dbo. ImporteTotal(Quantity, UnitPrice, Discount)
      FROM [Order Details]
END
UPDATE D
SET D.CustomerID = O.CustomerID
      , D.OrderDate = O.OrderDate
FROM @Detalles D
      JOIN Orders O
            ON O.OrderID = D.OrderID
WHERE D.CustomerID IS NULL
UPDATE D
SET D.CategoryID = P.CategoryID
      , D.Product = P.ProductName
FROM @Detalles D
      JOIN Products P
            ON P.ProductID = D.ProductID
WHERE D.CategoryID IS NULL
      UPDATE D
SET D.Category = C.CategoryName
FROM @Detalles D
      JOIN Categories C
            ON C.CategoryID = D.CategoryID
      UPDATE D
SET D.Company = C.CompanyName
FROM @Detalles D
      JOIN Customers C
            ON C.CustomerID = D.CustomerID
RETURN
```

END GO

Ejecutar Ejemplos

Select *

FROM dbo.DetalleCompletoPedidos(6,'PRO')

GO

	OrderID	ProductID	CustomerID	CategoryID	OrderDate	Value	Category	Product	Company	
1	10309	6	HUNGO	2	1996-09-19 00:00:00	600,00	Condiments	Grandma's Boysenberry Spread	Hungry Owl All-Night Grocer	
2	10325	6	KOENE	2	1996-10-09 00:00:00	120,00	Condiments	Grandma's Boysenberry Spread	Königlich Essen	
3	10618	6	MEREP	2	1997-08-01 00:00:00	1750,00	Condiments	Grandma's Boysenberry Spread	Mère Paillarde	
4	10734	6	GOURL	2	1997-11-07 00:00:00	750,00	Condiments	Grandma's Boysenberry Spread	Gournet Lanchonetes	
5	10830	6	TRADH	2	1998-01-13 00:00:00	150,00	Condiments	Grandma's Boysenberry Spread	Tradição Hipemercados	
6	10871	6	BONAP	2	1998-02-05 00:00:00	1187,50	Condiments	Grandma's Boysenberry Spread	Bon app'	
7	10934	6	LEHMS	2	1998-03-09 00:00:00	500,00	Condiments	Grandma's Boysenberry Spread	Lehmanns Marktstand	
8	10949	6	BOTTM	2	1998-03-13 00:00:00	300.00	Condiments	Grandma's Boysenberry Spread	Bottom-Dollar Markets	

select *

FROM dbo.DetalleCompletoPedidos('ANTON','CUS')

GO

	OrderID	ProductID	CustomerID	CategoryID	OrderDate	Value	Category	Product	Company
1	10365	11	ANTON	4	NULL	403,20	Dairy Products	Queso Cabrales	Antonio Moreno Taquería
2	10507	43	ANTON	1	NULL	586,50	Beverages	lpoh Coffee	Antonio Moreno Taquería
3	10507	48	ANTON	3	NULL	162,	Confections	Chocolade	Antonio Moreno Taquería
4	10535	11	ANTON	4	NULL	945,00	Dairy Products	Queso Cabrales	Antonio Moreno Taquería
5	10535	40	ANTON	8	NULL	165,60	Seafood	Boston Crab	Antonio Moreno Taquería
6	10535	57	ANTON	5	NULL	87,75	Grains/Cereals	Ravioli Angelo	Antonio Moreno Taquería
7	10535	59	ANTON	4	NULL	742,50	Dairy Products	Raclette Cour	Antonio Moreno Taquería
8	10573	17	ANTON	6	NULL	702,00	Meat/Poultry	Alice Mutton	Antonio Moreno Taquería

select *

FROM dbo.DetalleCompletoPedidos(6,'CAT')

GO

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		OrderID	ProductID	CustomerID	CategoryID	OrderDate	Value	Category	Product	Company
	1	10254	55	CHOPS	6	1996-07-11 00:00:00	342,72	Meat/Poultry	NULL	Chop-suey Chinese
	2	10256	53	WELLI	6	1996-07-15 00:00:00	393,00	Meat/Poultry	NULL	Wellington Importadora
ı	3	10265	17	BLONP	6	1996-07-25 00:00:00	936,00	Meat/Poultry	NULL	Blondesddsl père et fils
	4	10268	29	GROSR	6	1996-07-30 00:00:00	990,00	Meat/Poultry	NULL	GROSELLA-Restaur
ı	5	10279	17	LEHMS	6	1996-08-13 00:00:00	351,00	Meat/Poultry	NULL	Lehmanns Marktstand
ı	6	10280	55	BERGS	6	1996-08-14 00:00:00	384,00	Meat/Poultry	NULL	Berglunds snabbköp
	7	10285	53	QUICK	6	1996-08-20 00:00:00	754,56	Meat/Poultry	NULL	QUICK-Stop
	8	10288	54	REGGC	6	1996-08-23 00:00:00	53,10	Meat/Poultry	NULL	Reggiani Caseifici

select *

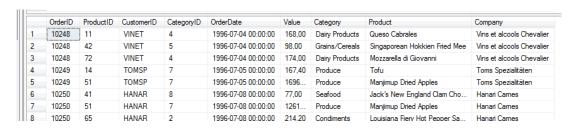
FROM dbo.DetalleCompletoPedidos(10248, 'ORD')

GO

		OrderID	ProductID	CustomerID	CategoryID	OrderDate	Value	Category	Product	Company
	1	10248	11	VINET	4	1996-07-04 00:00:00	168,00	Dairy Products	Queso Cabrales	Vins et alcools Chevalier
Ш	2	10248	42	VINET	5	1996-07-04 00:00:00	98,00	Grains/Cereals	Singaporean Hokkien Fried Mee	Vins et alcools Chevalier
	3	10248	72	VINET	4	1996-07-04 00:00:00	174,00	Dairy Products	Mozzarella di Giovanni	Vins et alcools Chevalier

select *

FROM dbo.DetalleCompletoPedidos(6,'cc')



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Más información

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