

ASIGNATURA: SISTEMAS GESTORES DE BASES DE DATOS **PROFESOR:** JUAN RAMÓN ALEMANY

EJEMPLO DE UNA FUNCTION SENCILLA

Crear la FUNCTION

```
USE ADVENTUREWORKS2008R2
GO
CREATE FUNCTION PersonCount()
RETURNS INTEGER
AS
BEGIN
    DECLARE @Counter INTEGER
    SET @Counter = (SELECT COUNT(BusinessEntityID) FROM PERSON.PERSON)
    RETURN @Counter
END
```

Utilizar la FUNCTION

```
DECLARE @Resultado INTEGER
SET @Resultado = dbo.PersonCount()
SELECT @Resultado AS RESULTADO
-- 0 bien
-- PRINT @Resultado
```

EJEMPLO DE UNA FUNCTION COMPLEJA

Crear la FUNCTION

```
CREATE FUNCTION GetMainColor()
RETURNS NVARCHAR(25)
AS
BEGIN
    DECLARE @OrderQty INTEGER
    DECLARE @Color NVARCHAR(25)
    DECLARE c CURSOR SCROLL FOR
    SELECT SUM(sod.OrderQty) AS OrderQty, p.Color
    FROM sales.salesorderdetail AS sod
    INNER JOIN production.product AS p
    ON sod.ProductID = p.ProductID
    WHERE p.Color is not null
    GROUP BY p.Color
    ORDER BY OrderQty DESC

    OPEN c
    FETCH FIRST FROM c INTO @OrderQty, @Color
    IF (@@fetch_status <> 0) SET @color = ''
    CLOSE c
    DEALLOCATE c
    RETURN @color
END
```

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Utilizar la FUNCTION

Forma 1ª:

```
SELECT * FROM production.product  
WHERE color = dbo.GetMainColor()
```

Forma 2ª:

```
DECLARE @Color NVARCHAR(25)  
SET @Color = dbo.GetMainColor()  
SELECT * FROM production.product  
WHERE color = @Color
```