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# IMPLEMENTAR CARGA STAGE EMPLEADO

Crear Base de Datos **STAGE\_NORTHWND**.

USE STAGE\_NORTHWND

GO

CREATE TABLE [dbo].[Stage\_Empleado](

[Empleado\_Codigo] [int] NOT NULL,

[Empleado\_Apellido] [varchar](40) NOT NULL,

[Empleado\_Nombre] [varchar](20) NULL,

[Empleado\_NombreCompleto] [varchar](70) NOT NULL,

[Empleado\_Direccion] [varchar](120) NULL,

[Empleado\_Ciudad] [varchar](15) NULL,

[Empleado\_Region] [varchar](15) NULL,

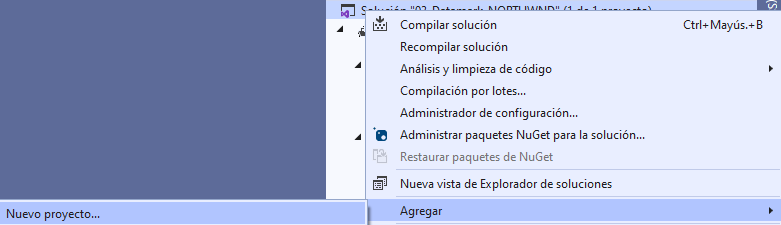
[Empleado\_Pais] [varchar](15) NULL,

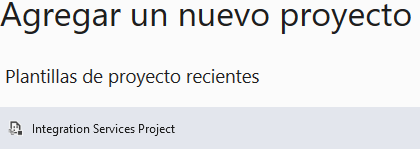
[Empleado\_Postal] [varchar](10) NULL,

[ETLLoad] [datetime] NULL,

[ETLExecution] [int] NULL )

**AGREGAR NUEVO PROYECTO**





**ORIGEN DE DATOS**

SELECT [EmployeeID]

,CAST([LastName] AS VARCHAR(40)) AS LastName

,CAST([FirstName] AS VARCHAR(20)) AS FirstName

,(CAST([LastName] AS VARCHAR(40)) +', '+CAST([FirstName] AS VARCHAR(20))) AS Name

,CAST([Address] AS VARCHAR(120)) AS Address

,CAST([City] AS VARCHAR(15)) AS City

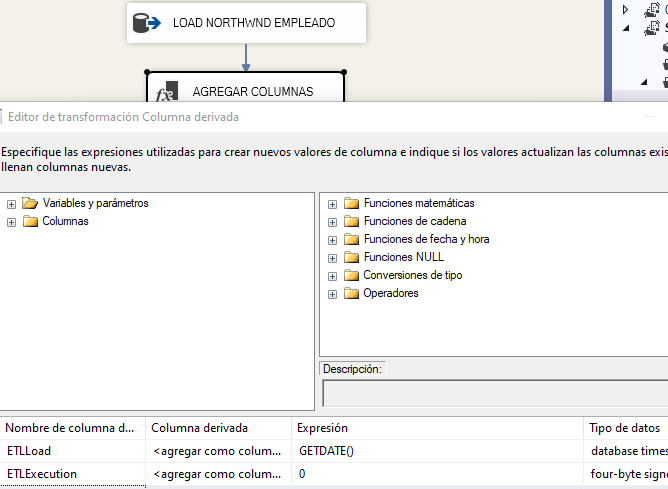
,CAST([Region] AS VARCHAR(15)) AS Region

,CAST([Country] AS VARCHAR(15)) AS Country

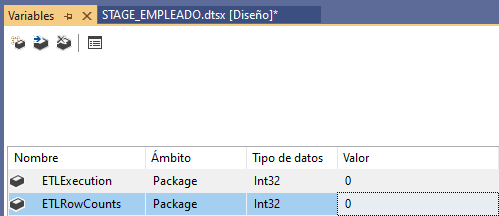
,CAST([PostalCode] AS VARCHAR(10)) AS PostalCode

FROM **[Load\_Northwnd]**.[dbo].[Employees]

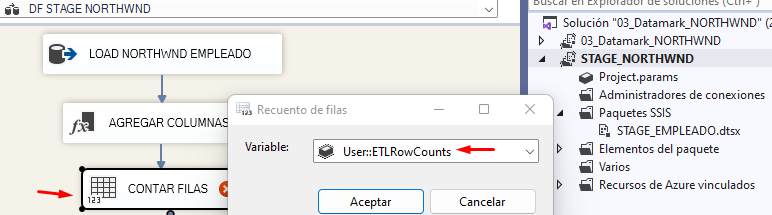
**AGREGAR COLUMNAS**

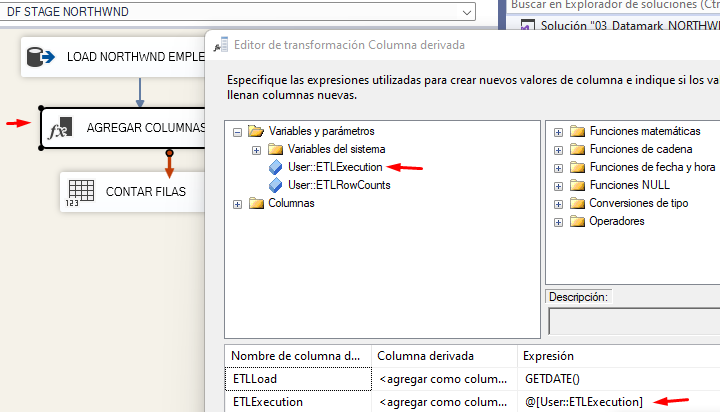


**CREAR VARIABLES**

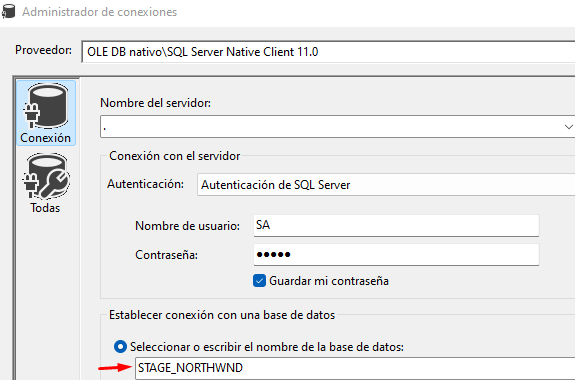


**ASIGNAR VARIABLES A AGREGAR PARAMETROS Y CONTAR FILAS**

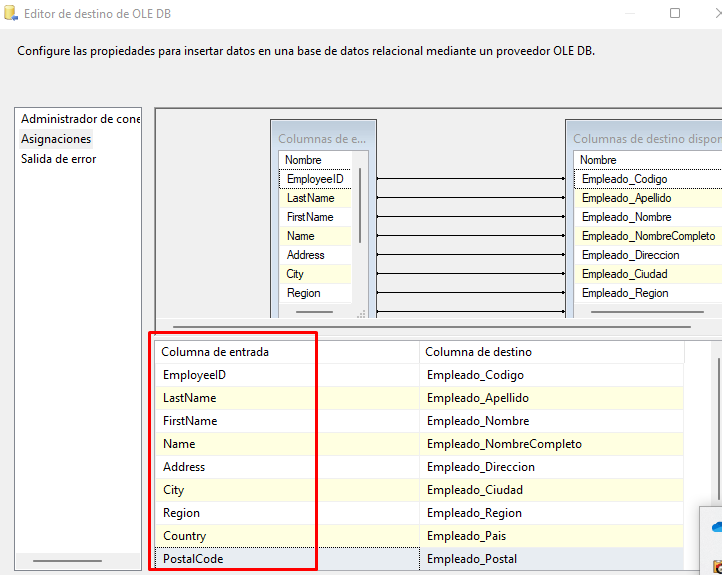




**NUEVA CONEXON A BASE DE DATOS STAGE NORTHWND**



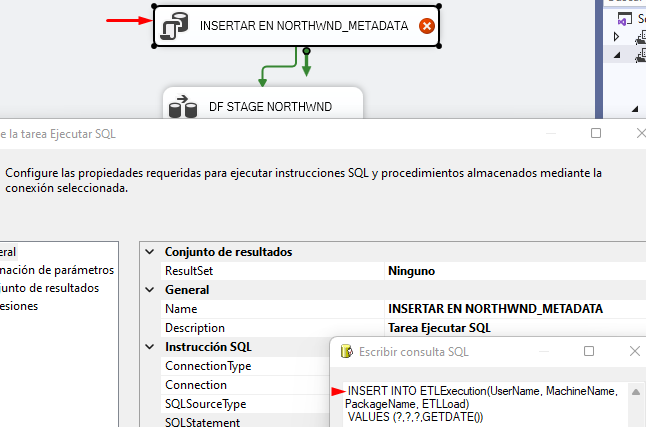
**MAPEAR CON STAGE EMPLEADO**



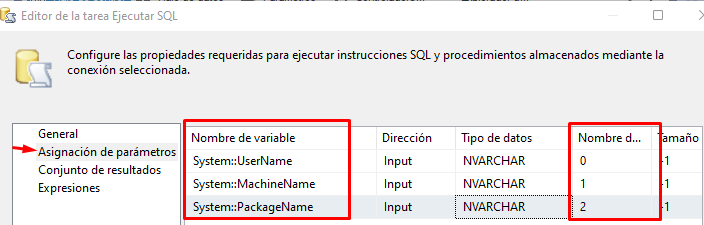
## INSERTANDO REGISTRO EN EL METADATA

INSERT INTO ETLExecution(NombreUsuario, NombreMaquina, NombrePaquete, ETLload)

VALUES (?,?,?,GETDATE())



**ASIGNAR PARAMETROS**

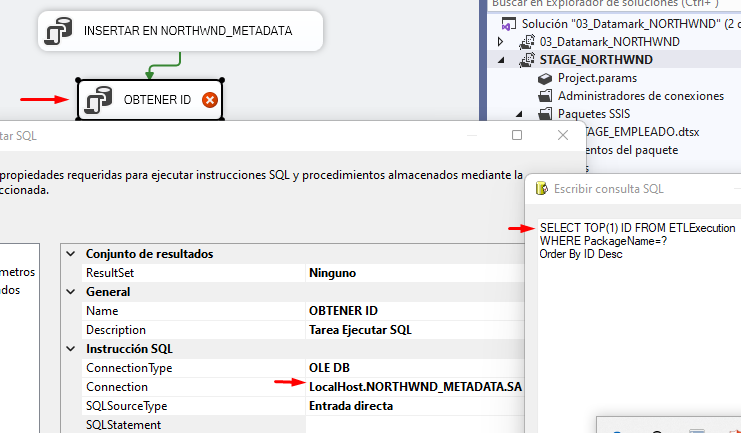


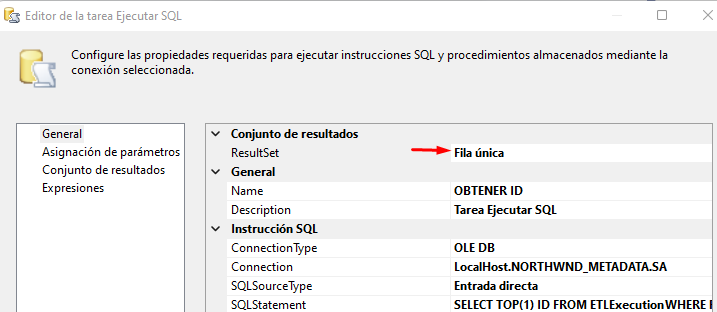
## OBTENIENDO EL ULTIMO ID DEL METADATA

SELECT TOP(1) ID FROM ETLExecution

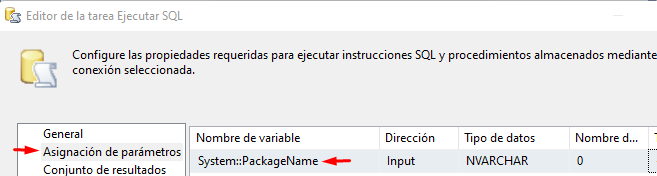
WHERE NombrePaquete=?

Order By ID Desc

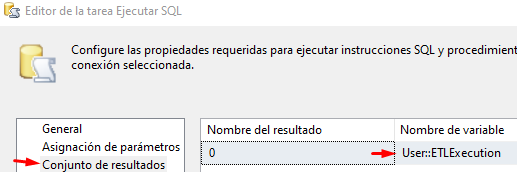




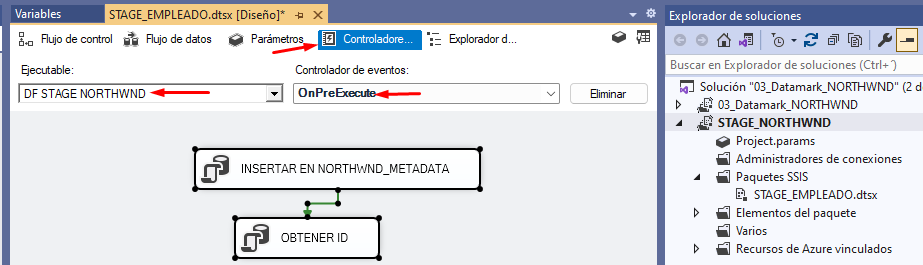
**ASIGNAR PARAMETROS**



**CONJUNTO DE RESULTADOS**



## CONTROLADOR DE EVENTOS PRE-EXECUTE

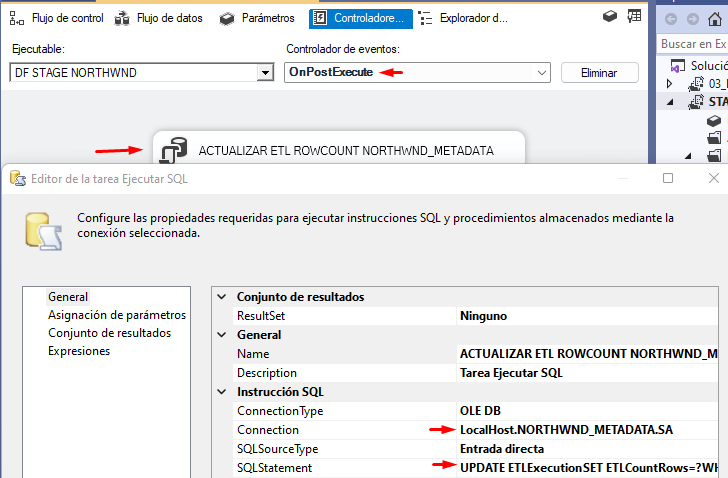


**ACTUALIZAR ETL ROWCOUNT NORTHWND\_METADATA**

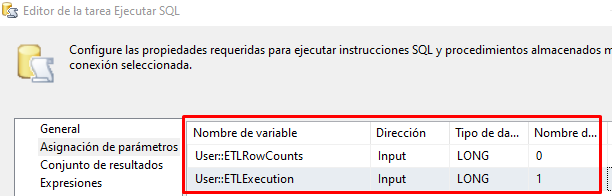
UPDATE ETLExecution

SET ETLCountRows=?

WHERE ID=?

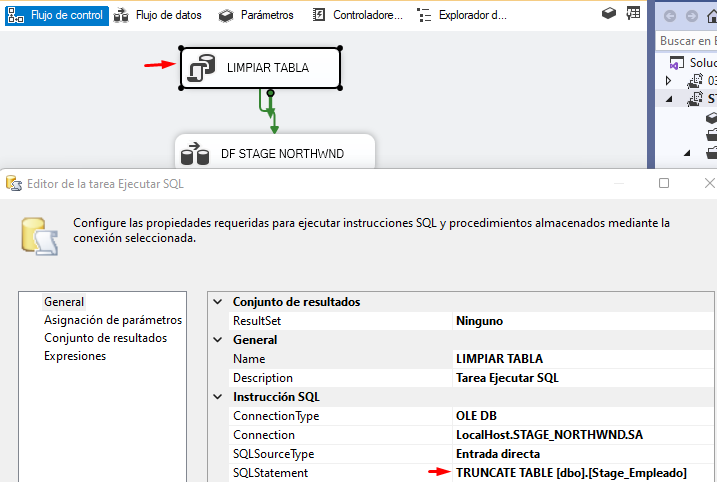


**ASIGNAR PARAMETROS**

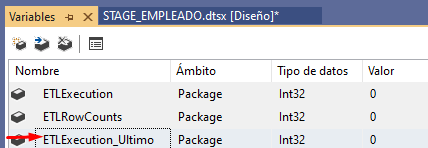


**LIMPIAR TABLA**

TRUNCATE TABLE [dbo].[Stage\_Empleado]

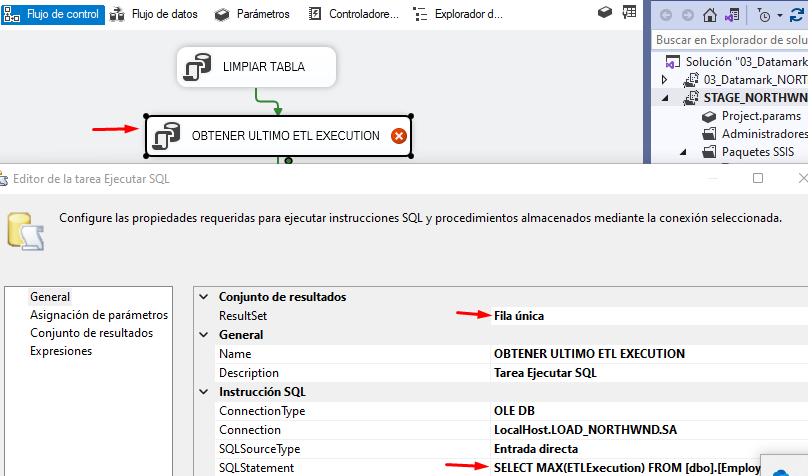


**CREAR VARIABLE**

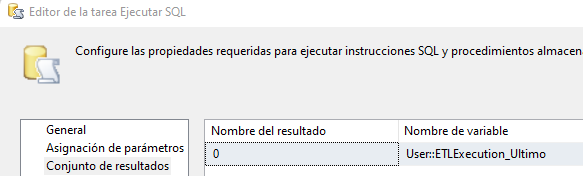


## OBTENER ULTIMO ETL EXECUTION

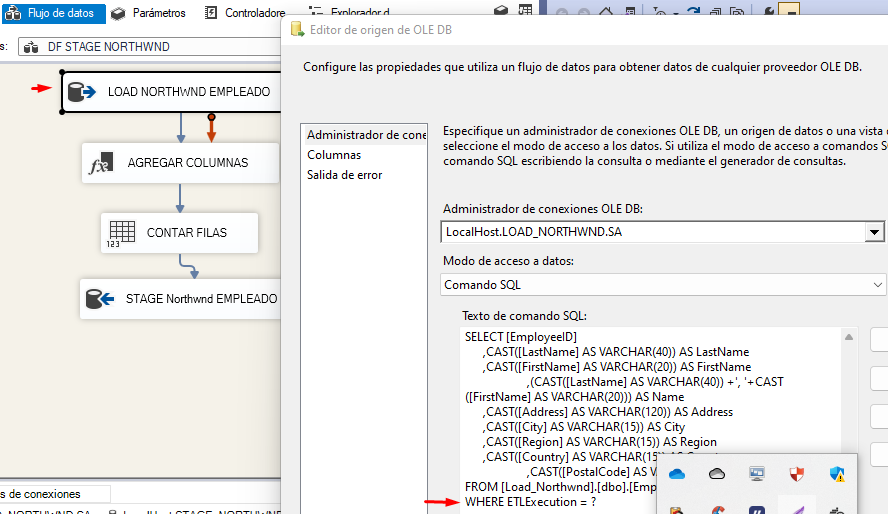
SELECT MAX(ETLExecution) FROM [LOAD\_NORTHWND].[dbo].[Employees]



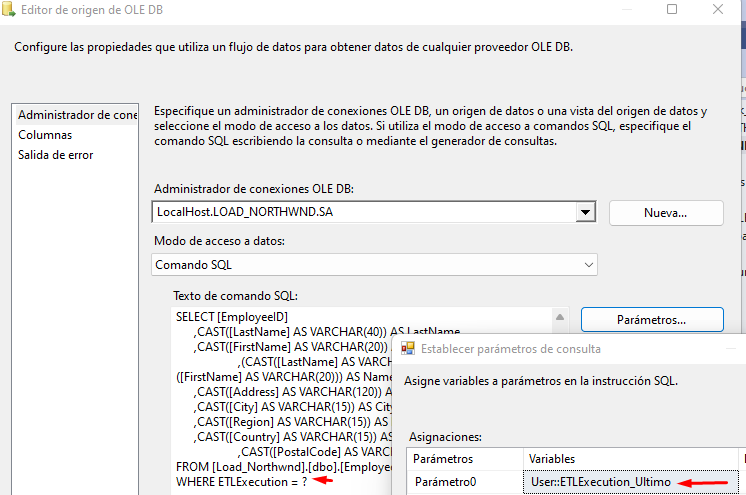
**ESTABLECER CONJUNTO DE RESULTADOS**

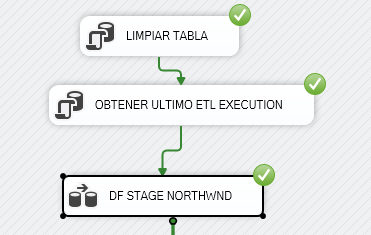


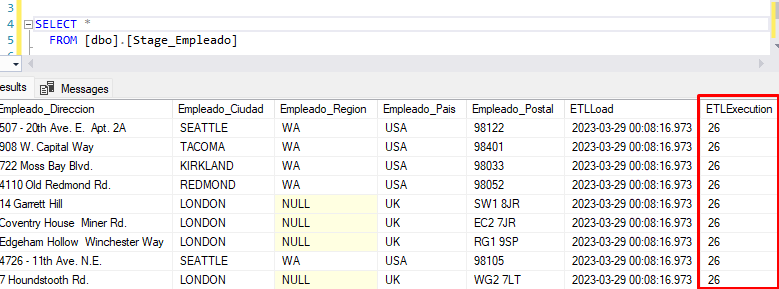
## AGREGAR FILTRO EN EMPLEADO



**AGREGAR PARAMETRO**







# IMPLEMENTAR CARGA STAGE PRODUCTO

USE STAGE\_NORTHWND

GO

IF EXISTS(SELECT NAME FROM SYS.tables WHERE NAME='Stage\_Producto')

BEGIN

DROP TABLE Stage\_Producto

END

GO

CREATE TABLE [dbo].[Stage\_Producto](

[Producto\_Codigo] [int] NOT NULL,

[Producto\_Nombre] [varchar](50) NOT NULL,

[Producto\_PUnitario] [decimal](15, 2) NULL,

[CategoriaProducto\_Codigo] [int] NOT NULL,

[ProveedorNombre] [varchar](40) NULL,

[ETLLoad] [datetime] NULL,

[ETLExecution] [int] NULL

)

GO

## ORIGEN

SELECT [ProductID]

,CAST([ProductName] AS VARCHAR(50)) AS ProductName

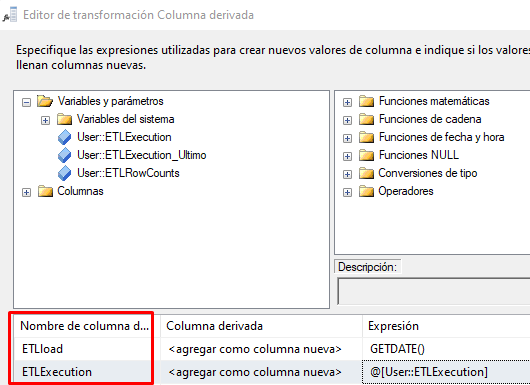
,CAST([UnitPrice] AS DECIMAL(15,2)) AS UnitPrice

,[CategoryID]

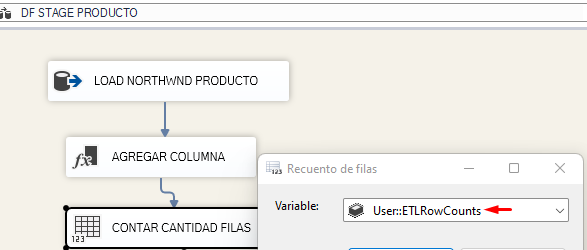
,'NORTHWND' Proveedor

FROM [Load\_Northwnd].[dbo].[Products]

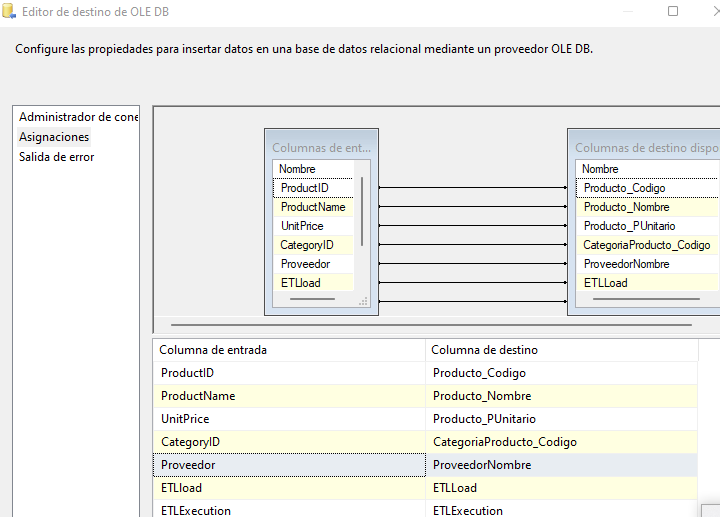
AGREGAR COLUMNAS



**CONTAR CANTIDAD FILAS**



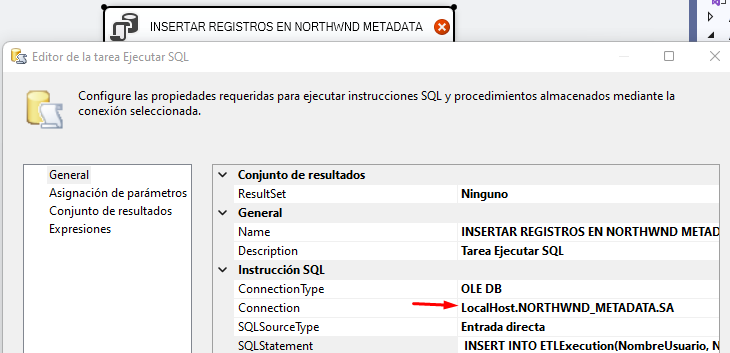
## DESTINO STAGE NORTHWND PRODUCTO



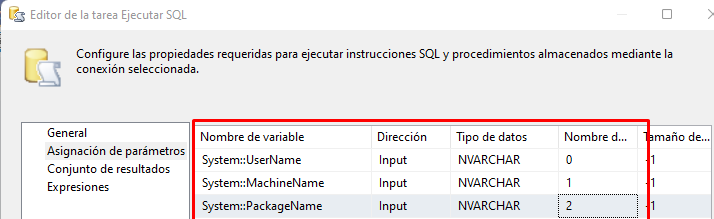
## INSERTAR REGISTROS EN NORTHWND METADATA

INSERT INTO ETLExecution(NombreUsuario, NombreMaquina, NombrePaquete, ETLload)

VALUES (?,?,?,GETDATE())



## ASIGNAR PARAMETROS

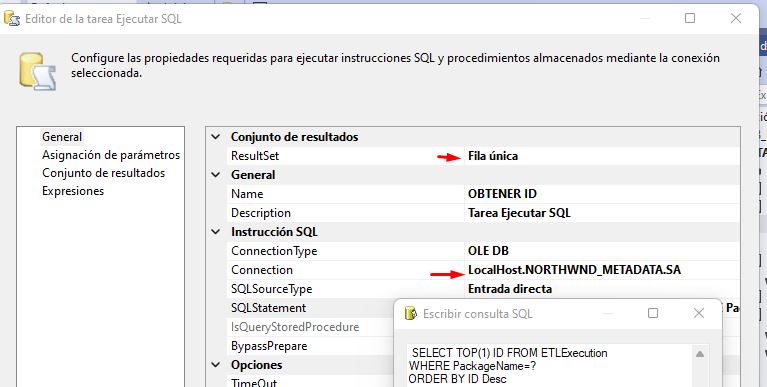


## OBTENER ID (NORTHWND\_METADATA)

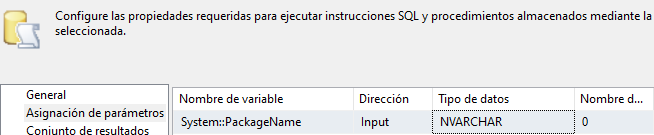
SELECT TOP(1) ID FROM ETLExecution

WHERE NombrePaquete=?

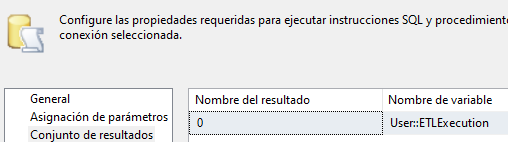
ORDER BY ID Desc



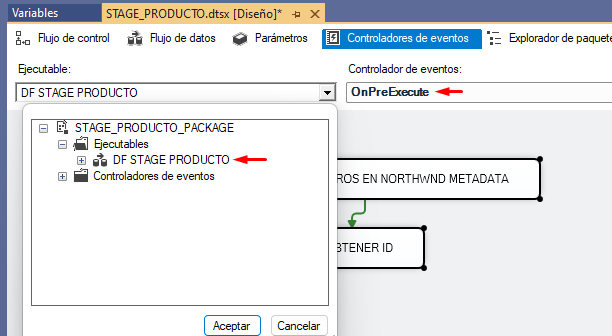
ASIGNAR PARAMETRO



**CONJUNTO DE RESULTADOS**



## PRE-EXECUTE

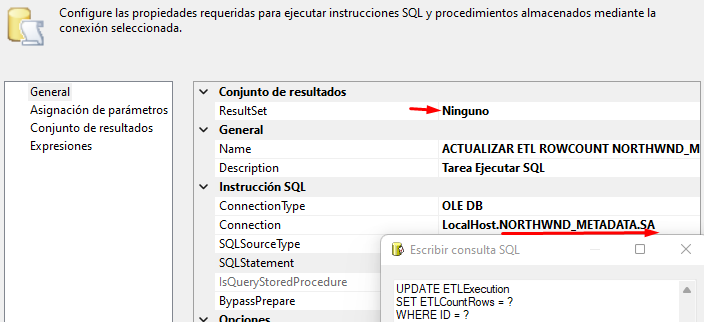


## POST-EXECUTE ACTUALIZAR ETL ROWCOUNT NORTHWND\_METADATA

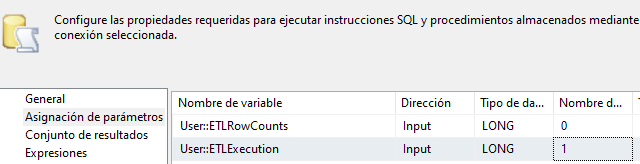
UPDATE ETLExecution

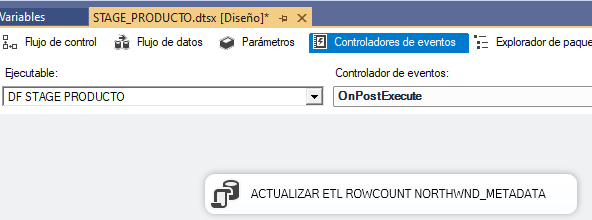
SET ETLCountRows = ?

WHERE ID = ?



**ASIGNAR PARAMETROS**



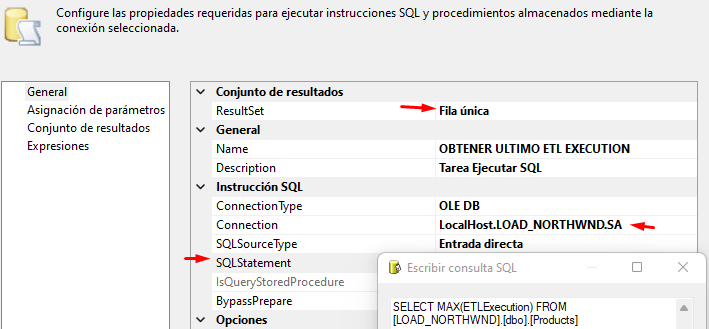


**LIMPIAR STAGE PRODUCTO**

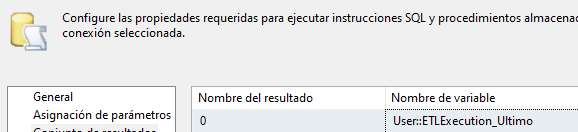
TRUNCATE TABLE [dbo].[Stage\_Producto]

## OBTENER ULTIMO ETL EXECUTION (BD LOAD\_NORTHWND)

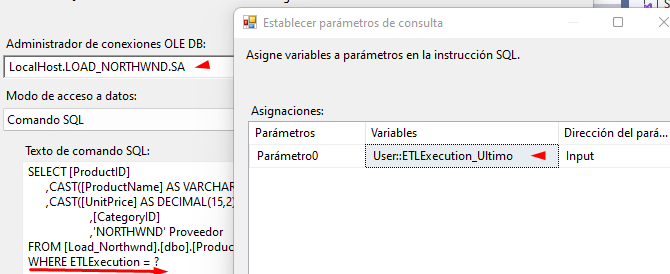
SELECT MAX(ETLExecution) FROM [LOAD\_NORTHWND].[dbo].[Products]

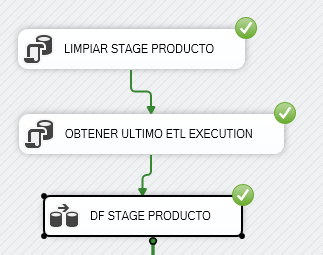


**ASIGNAR RESULTADO**



**ASIGNAR PARAMETRO EN QUERY ORIGEN**





SELECT \* FROM Stage\_Producto

SELECT \* FROM [LOAD\_NORTHWND].[dbo].[Products]

SELECT \* FROM [NORTHWND\_METADATA].[dbo].[ETLExecution] ORDER BY 1 DESC

# IMPLEMENTAR CARGA STAGE CATEGORIA

## ORIGEN

USE STAGE\_NORTHWND

GO

CREATE TABLE [dbo].[Stage\_Categoria](

[Categoria\_Codigo] [int] NOT NULL,

[Categoria\_Nombre] [varchar](15) NOT NULL,

[ETLLoad] [datetime] NULL,

[ETLExecution] [int] NULL

) ON [PRIMARY]

**CONSULTAR BASE DE DATOS LOAD\_NORTHWND**

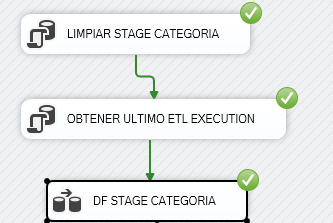
SELECT [CategoryID]

,CAST([CategoryName] AS VARCHAR(15)) AS CategoryName

FROM [Load\_Northwnd].[dbo].[Categories]

SELECT \*

FROM [dbo].[Stage\_Categoria]



# IMPLEMENTAR CARGA STAGE CLIENTE

ORIGEN

USE STAGE\_NORTHWND

GO

CREATE TABLE [dbo].[Stage\_Cliente](

[Cliente\_Codigo] [char](5) NOT NULL,

[Cliente\_Nombre] [varchar](40) NOT NULL,

[Cliente\_Compania] [varchar](40) NULL,

[Cliente\_Direccion] [varchar](60) NULL,

[Cliente\_Ciudad] [varchar](15) NULL,

[Cliente\_Region] [varchar](15) NULL,

[Cliente\_Pais] [varchar](15) NULL,

[Cliente\_Postal] [varchar](10) NULL,

[ETLLoad] [datetime] NULL,

[ETLExecution] [int] NULL )

SELECT CAST([CustomerID] AS CHAR(5)) AS CustomerID

,CAST([CompanyName] AS VARCHAR(40)) AS CompanyName

,CAST([ContactName] AS VARCHAR(40)) AS ContactName

,CAST([Address] AS VARCHAR(60)) AS Address

,CAST([City] AS VARCHAR(15)) AS City

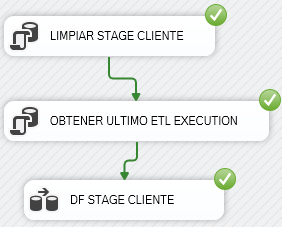
,CAST([Region] AS VARCHAR(15)) AS Region

,CAST([PostalCode] AS VARCHAR(10)) AS PostalCode

,CAST([Country] AS VARCHAR(15)) AS Country,ETLExecution

FROM [Load\_Northwnd].[dbo].[Customers]

WHERE ETLExecution = 16



# IMPLEMENTAR CARGA STAGE VENTAS

## ORIGEN

USE STAGE\_NORTHWND

GO

CREATE TABLE [dbo].[Stage\_Ventas](

[Cliente\_Codigo] [char](5) NOT NULL,

[Empleado\_Codigo] [int] NOT NULL,

[Producto\_Codigo] [int] NOT NULL,

[Ventas\_OrderDate] [datetime] NOT NULL,

[Ventas\_NOrden] [int] NOT NULL,

[Ventas\_Monto] [decimal](15, 2) NOT NULL,

[Ventas\_Unidades] [int] NOT NULL,

[Ventas\_PUnitario] [decimal](15, 2) NOT NULL,

[Ventas\_Descuento] [decimal](15, 2) NOT NULL,

[ETLLoad] [datetime] NULL,

[ETLExecution] [int] NULL )

SELECT O.OrderID,

CAST(O.CustomerID AS CHAR(5)) AS CustomerID,

O.EmployeeID,

OD.ProductID,

O.OrderDate,

CAST(((OD.UnitPrice \* OD.Quantity) - OD.Discount) AS decimal(15,2)) AS Total,

OD.Quantity,

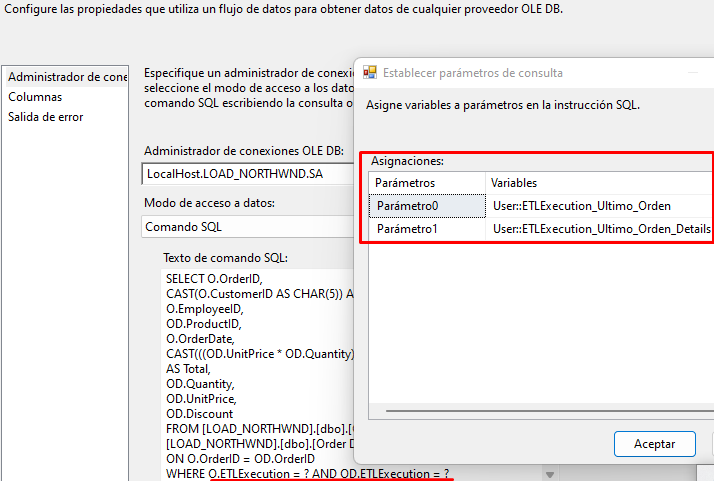
OD.UnitPrice,

OD.Discount

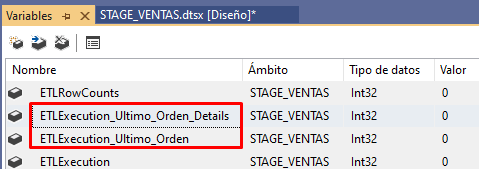
FROM [LOAD\_NORTHWND].[dbo].[Orders] O INNER JOIN [LOAD\_NORTHWND].[dbo].[OrderDetails] OD

ON O.OrderID = OD.OrderID

WHERE O.ETLExecution = ? AND OD.ETLExecution = ?



## Variables Nuevas



## OBTENER ULTIMO ETL

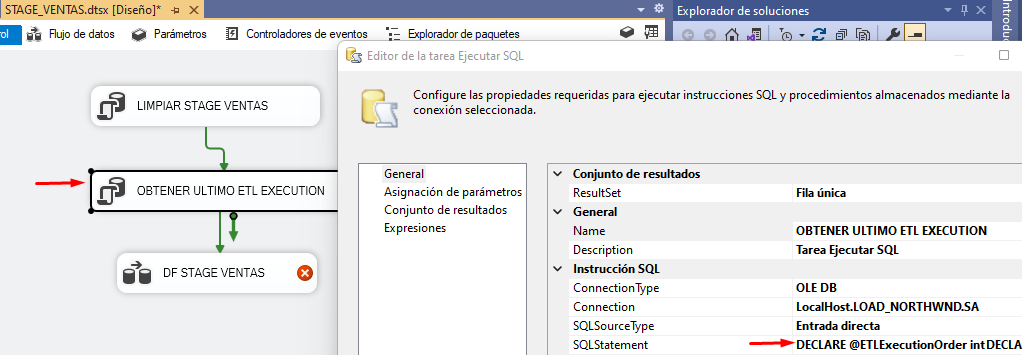
DECLARE @ETLExecutionOrder int

DECLARE @ETLExecutionOrderDetail int

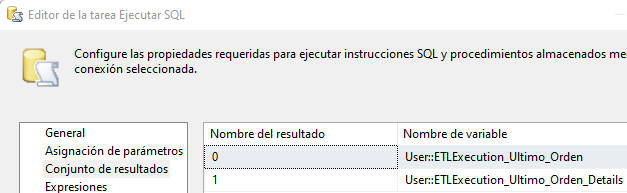
SET @ETLExecutionOrder =(SELECT MAX(ETLExecution) FROM [LOAD\_NORTHWND].[dbo].[Orders])

SET @ETLExecutionOrderDetail = (SELECT MAX(ETLExecution) FROM [LOAD\_NORTHWND].[dbo].[Order Details])

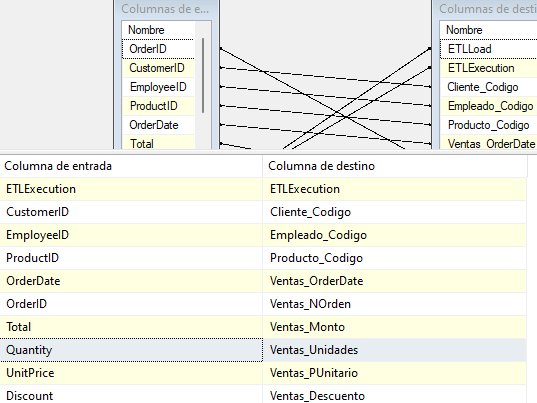
SELECT @ETLExecutionOrder, @ETLExecutionOrderDetail



**CONJUNTO DE RESULTADOS**

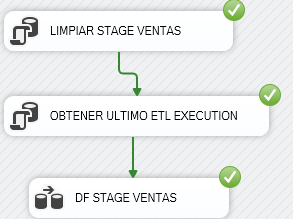


## DESTINO



SELECT \*

FROM [dbo].[Stage\_Ventas]



# IMPLEMENTAR CARGA STAGE TIEMPO

## ORIGEN

USE STAGE\_NORTHWND

GO

CREATE TABLE [dbo].[Stage\_Tiempo](

[Tiempo\_Skey] [int] IDENTITY(1,1) NOT NULL,

[Tiempo\_FechaActual] [datetime] NOT NULL,

[Tiempo\_Anio] [int] NOT NULL,

[Tiempo\_Trimestre] [int] NOT NULL,

[Tiempo\_Mes] [int] NOT NULL,

[Tiempo\_Semana] [int] NOT NULL,

[Tiempo\_DiaDeAnio] [int] NOT NULL,

[Tiempo\_DiaDeMes] [int] NOT NULL,

[Tiempo\_DiaDeSemana] [int] NOT NULL,

[Tiempo\_EsFinSemana] [int] NULL,

[Tiempo\_EsFeriado] [int] NULL,

[Tiempo\_Comentarios] [varchar](20) NULL,

[Tiempo\_SemanaCalendario] [int] NOT NULL,

[Tiempo\_SemanasDelAñoLaborales] [int] NOT NULL,

[Tiempo\_AñoBisiesto] [tinyint] NOT NULL,

ETLLoad DATETIME,

ETLExecution INT )

SELECT Distinct(OrderDate),

YEAR(OrderDate) AS Anio,

DATEPART(QUARTER,OrderDate) as Trimestre,

DATEPART(MONTH,OrderDate) as Mes,

DATEPART(WEEK,OrderDate) as Semana,

DATEPART(DAYOFYEAR,OrderDate) as DiaDeAnio,

DATEPART(DAY,OrderDate) as DiaDeMes,

DATEPART(WEEKDAY,OrderDate-1) as DiaDeSemana,

IIF((DATEPART(WEEKDAY,OrderDate-1)=6 OR DATEPART(WEEKDAY,OrderDate-1)=7),1,0) AS EsFinSemana,

IIF((DATEPART(MONTH,OrderDate) = 6 AND DATEPART(DAY,OrderDate) = 29) OR

(DATEPART(MONTH,OrderDate) = 7 AND DATEPART(DAY,OrderDate) = 28) OR

(DATEPART(MONTH,OrderDate) = 7 AND DATEPART(DAY,OrderDate) = 29) OR

(DATEPART(MONTH,OrderDate) = 8 AND DATEPART(DAY,OrderDate) = 30) OR

(DATEPART(MONTH,OrderDate) = 10 AND DATEPART(DAY,OrderDate) = 8) OR

(DATEPART(MONTH,OrderDate) = 11 AND DATEPART(DAY,OrderDate) = 1) OR

(DATEPART(MONTH,OrderDate) = 12 AND DATEPART(DAY,OrderDate) = 8) OR

(DATEPART(MONTH,OrderDate) = 12 AND DATEPART(DAY,OrderDate) = 25)

,1,0) AS EsFeriado,

'1 -> (V) / 0 -> (F)' AS Comentarios,

DATEPART(WEEK,OrderDate) as SemanaCalendario,

DATEPART(WEEK,OrderDate) as SemanasDelAñoLaborales,

IIF(DATEPART(DAYOFYEAR,OrderDate) = 366, 1, 0) AS AñoBisiesto

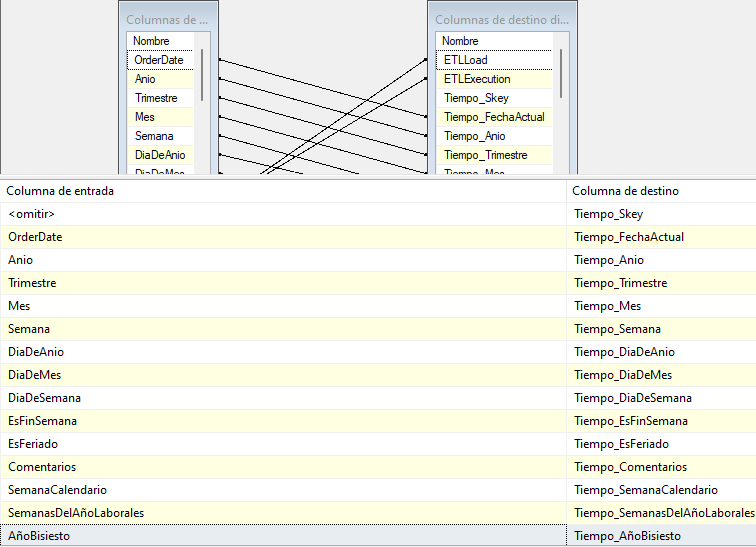
FROM [LOAD\_NORTHWND].[dbo].Orders

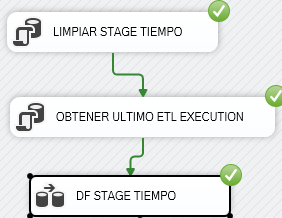
WHERE ETLExecution = ?

## OBTENER ULTIMO ETL

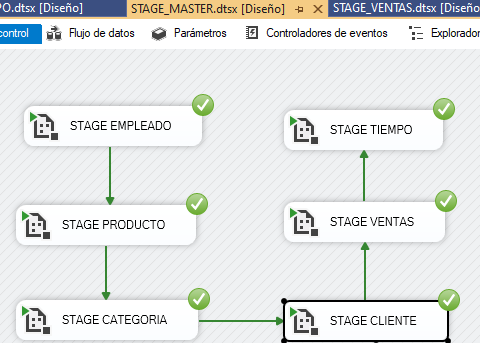
SELECT MAX(ETLExecution) FROM [LOAD\_NORTHWND].[dbo].[Orders]

## DESTINO





# IMPLEMENTAR CARGA STAGE MASTER



SELECT \* FROM [NORTHWND\_METADATA].[dbo].[ETLExecution] WHERE ID > 52

