Nombre: Jimena Catalina Cabrera Jojoa

Código: 221034027

TALLER TRANSFORMACIONES

Parte 1

- **Que tablas están relacionadas y con que campos o llaves foráneas están relacionadas, indica cuales y sus campos de relación.**

Order Details (OrderID, ProductID) => Products, Orders

Products (SupplierID, CategoryID) => Suppliers, Categories

Orders (CustumerID, EmployeeID, ShipVia) => Customers, Employees, Shippers

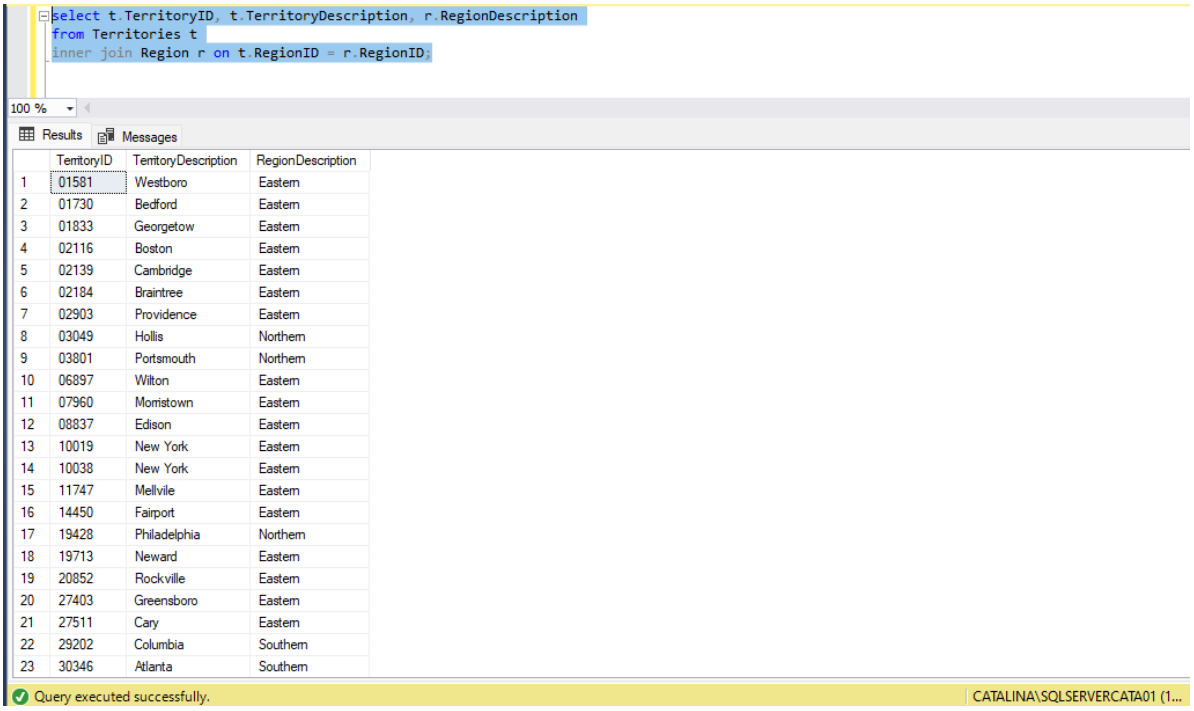
CustomersDemo (CustomerID, CustomerTypeID) => Customers, CustomerDemographics

EmployeesTerritories (EmployeeID, TerritoryID) => Employees, Territories

Territories (RegionID) = Region

- **Ejecuta la siguiente consulta y analiza su resultado:**

```
select t.TerritoryID, t.TerritoryDescription, r.RegionDescription
from Territories t
inner join Region r on t.RegionID = r.RegionID;
```



```
select t.TerritoryID, t.TerritoryDescription, r.RegionDescription
from Territories t
inner join Region r on t.RegionID = r.RegionID;
```

100 %

Results | Messages

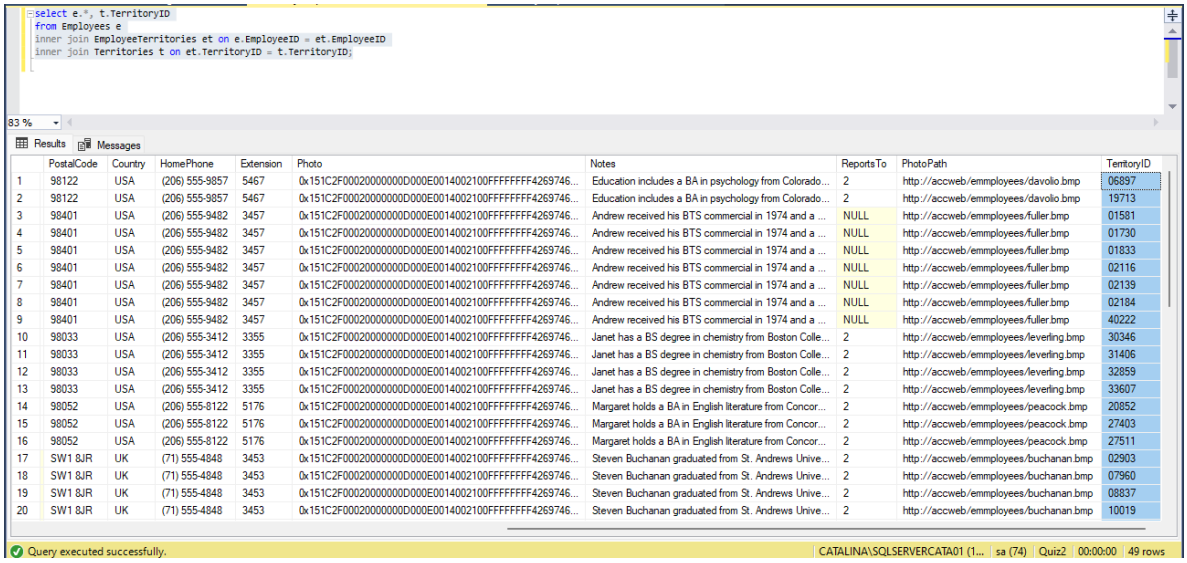
	TerritoryID	TerritoryDescription	RegionDescription
1	01581	Westboro	Eastern
2	01730	Bedford	Eastern
3	01833	Georgetow	Eastern
4	02116	Boston	Eastern
5	02139	Cambridge	Eastern
6	02184	Braintree	Eastern
7	02903	Providence	Eastern
8	03049	Hollis	Northern
9	03801	Portsmouth	Northern
10	06897	Wilton	Eastern
11	07960	Morristown	Eastern
12	08837	Edison	Eastern
13	10019	New York	Eastern
14	10038	New York	Eastern
15	11747	Mellvile	Eastern
16	14450	Fairport	Eastern
17	19428	Philadelphia	Northern
18	19713	Neward	Eastern
19	20852	Rockville	Eastern
20	27403	Greensboro	Eastern
21	27511	Cary	Eastern
22	29202	Columbia	Southern
23	30346	Atlanta	Southern

Query executed successfully. CATALINA\SQLSERVERCATA01 (1...

- **Siguiendo la misma lógica del INNER JOIN ahora: Escribe una consulta en SQL que te permita obtener el detalle de todos los campos del empleado**

(Employees), y el ID del territorio al que pertenece (TerritoryID). Que Query ejecuto?

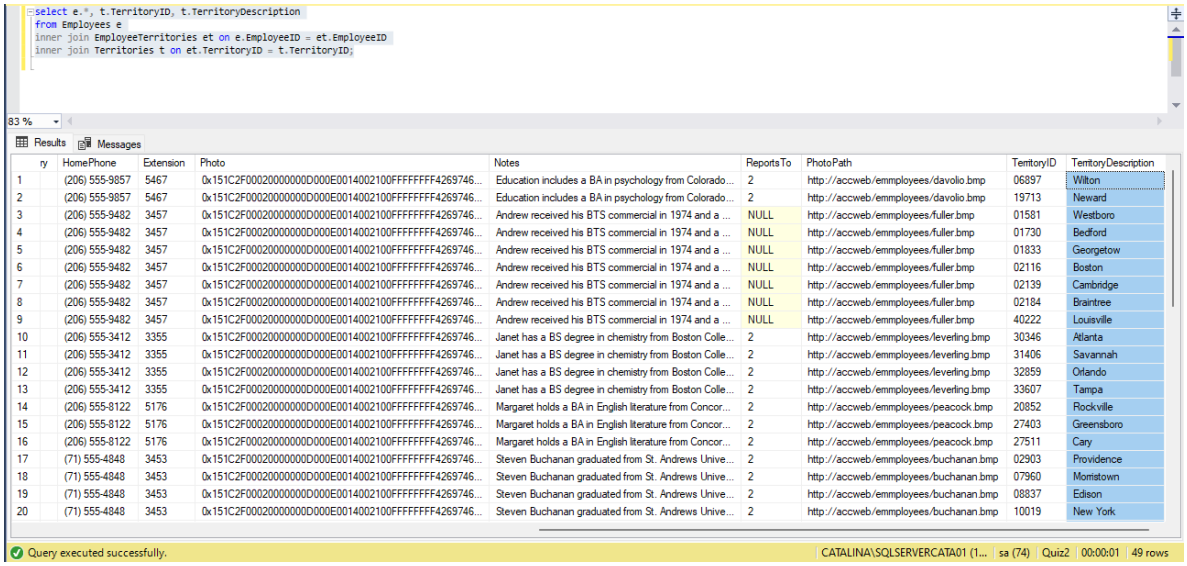
```
select e.*, t.TerritoryID
from Employees e
inner join EmployeeTerritories et on e.EmployeeID = et.EmployeeID
inner join Territories t on et.TerritoryID = t.TerritoryID;
```



	PostalCode	Country	HomePhone	Extension	Photo	Notes	ReportsTo	PhotoPath	TerritoryID
1	98122	USA	(206) 555-9857	5467	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Education includes a BA in psychology from Colorado...	2	http://accweb/emmployees/davolio.bmp	06897
2	98122	USA	(206) 555-9857	5467	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Education includes a BA in psychology from Colorado...	2	http://accweb/emmployees/davolio.bmp	19713
3	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01581
4	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01730
5	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01833
6	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02116
7	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02139
8	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02184
9	98401	USA	(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	40222
10	98033	USA	(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	30346
11	98033	USA	(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	31406
12	98033	USA	(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	32859
13	98033	USA	(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	33607
14	98052	USA	(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	20852
15	98052	USA	(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	27403
16	98052	USA	(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	27511
17	SW1 8JR	UK	(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	02903
18	SW1 8JR	UK	(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	07960
19	SW1 8JR	UK	(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	08837
20	SW1 8JR	UK	(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	10019

- **Complementa la Query anterior, para obtener adicionalmente la descripción del territorio (TerritoryDescription), ¿Que Query ejecuto?**

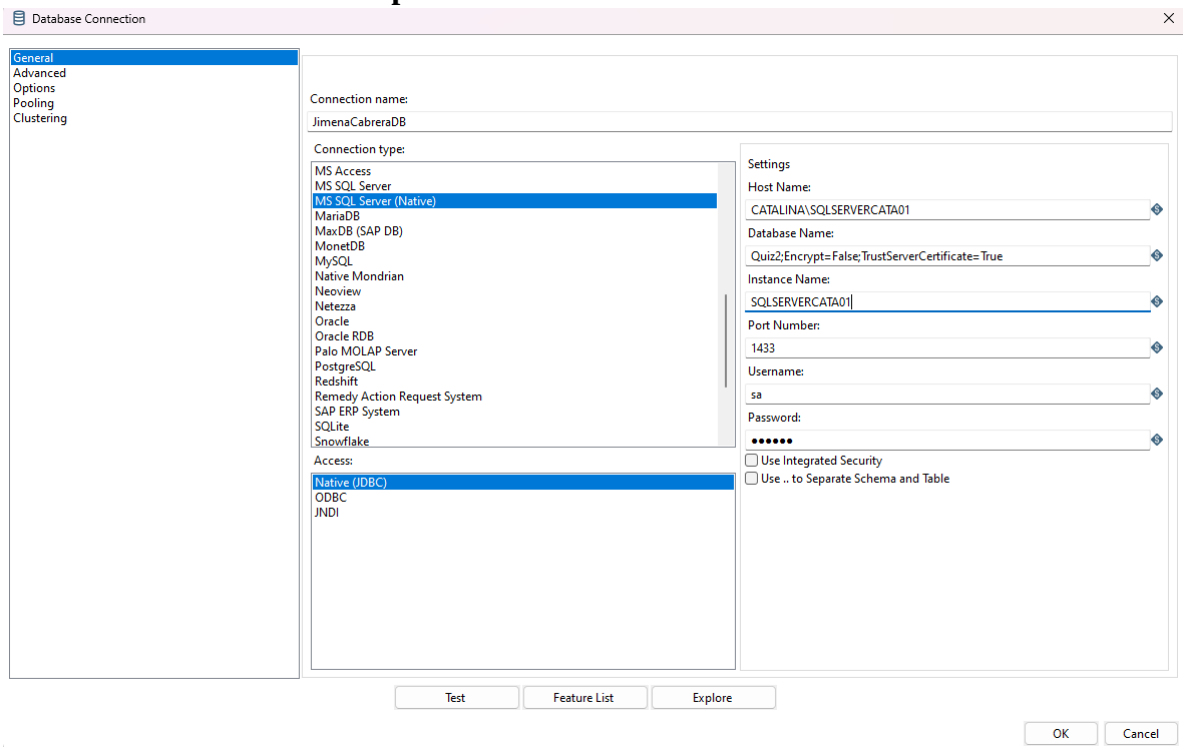
```
select e.*, t.TerritoryID, t.TerritoryDescription
from Employees e
inner join EmployeeTerritories et on e.EmployeeID = et.EmployeeID
inner join Territories t on et.TerritoryID = t.TerritoryID;
```



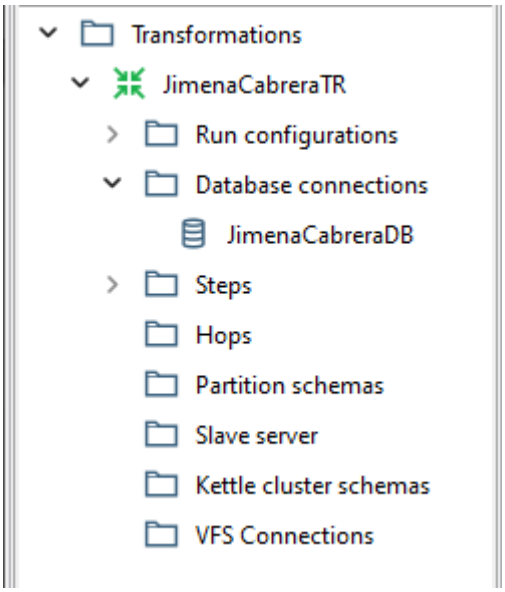
	ry	HomePhone	Extension	Photo	Notes	ReportsTo	PhotoPath	TerritoryID	TerritoryDescription
1		(206) 555-9857	5467	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Education includes a BA in psychology from Colorado...	2	http://accweb/emmployees/davolio.bmp	06897	Wilton
2		(206) 555-9857	5467	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Education includes a BA in psychology from Colorado...	2	http://accweb/emmployees/davolio.bmp	19713	Neward
3		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01581	Westboro
4		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01730	Bedford
5		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	01833	Georgetow
6		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02116	Boston
7		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02139	Cambridge
8		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	02184	Braintree
9		(206) 555-9482	3457	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Andrew received his BTS commercial in 1974 and a ...	NULL	http://accweb/emmployees/fuller.bmp	40222	Louisville
10		(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	30346	Atlanta
11		(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	31406	Savannah
12		(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	32859	Orlando
13		(206) 555-3412	3355	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Janet has a BS degree in chemistry from Boston Colle...	2	http://accweb/emmployees/leverling.bmp	33607	Tampa
14		(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	20852	Rockville
15		(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	27403	Greensboro
16		(206) 555-8122	5176	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Margaret holds a BA in English literature from Concor...	2	http://accweb/emmployees/peacock.bmp	27511	Cary
17		(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	02903	Providence
18		(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	07960	Morristown
19		(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	08837	Edison
20		(71) 555-4848	3453	0x151C2F00020000000D000E0014002100FFFFFFFF4269746...	Steven Buchanan graduated from St. Andrews Unive...	2	http://accweb/emmployees/buchanan.bmp	10019	New York

Parte 2

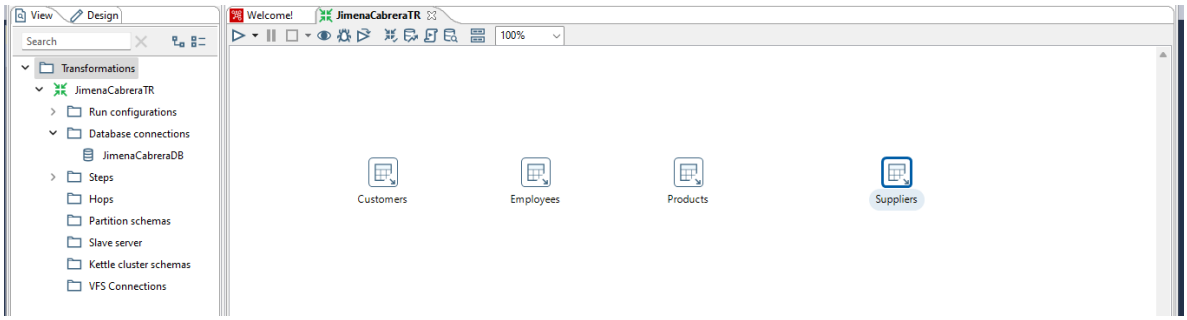
- **Cargue la misma fuente de datos en Pentaho, realice capturas de pantalla de la configuración de la conexión (Ventana DataBase Connection), nombre a Connection name: nombreApellidoDB**



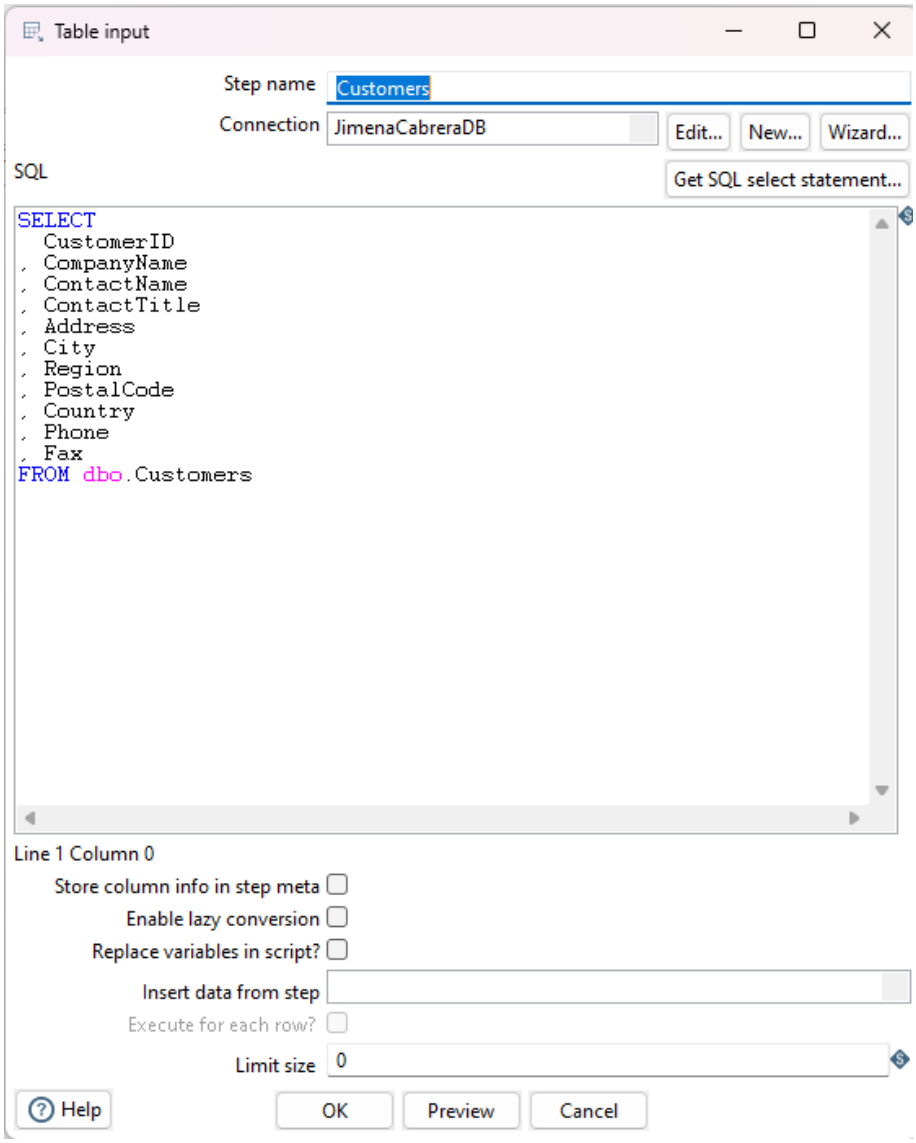
- **Cree una nueva transformación con nombre: nombreapellidoTR**



- **Cargue las tablas:**



- **Customers**



- **Employees**

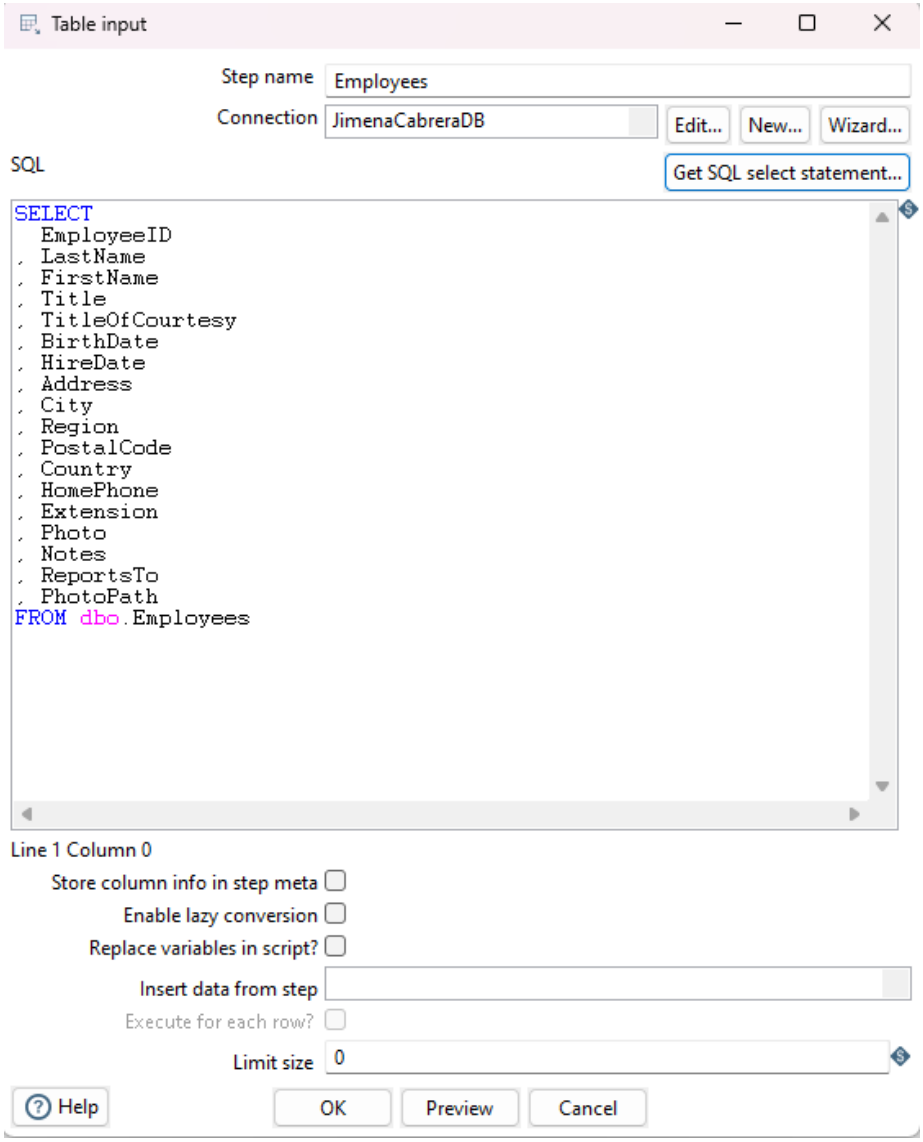


Table input
Step name
Employees
Connection
JimenaCabreraDB
Edit...
New...
Wizard...
SQL
Get SQL select statement...
SELECT
EmployeeID
, LastName
, FirstName
, Title
, TitleOfCourtesy
, BirthDate
, HireDate
, Address
, City
, Region
, PostalCode
, Country
, HomePhone
, Extension
, Photo
, Notes
, ReportsTo
, PhotoPath
FROM dbo.Employees
Line 1 Column 0
Store column info in step meta
Enable lazy conversion
Replace variables in script?
Insert data from step
Execute for each row?
Limit size
0
Help
OK
Preview
Cancel

- **Products**

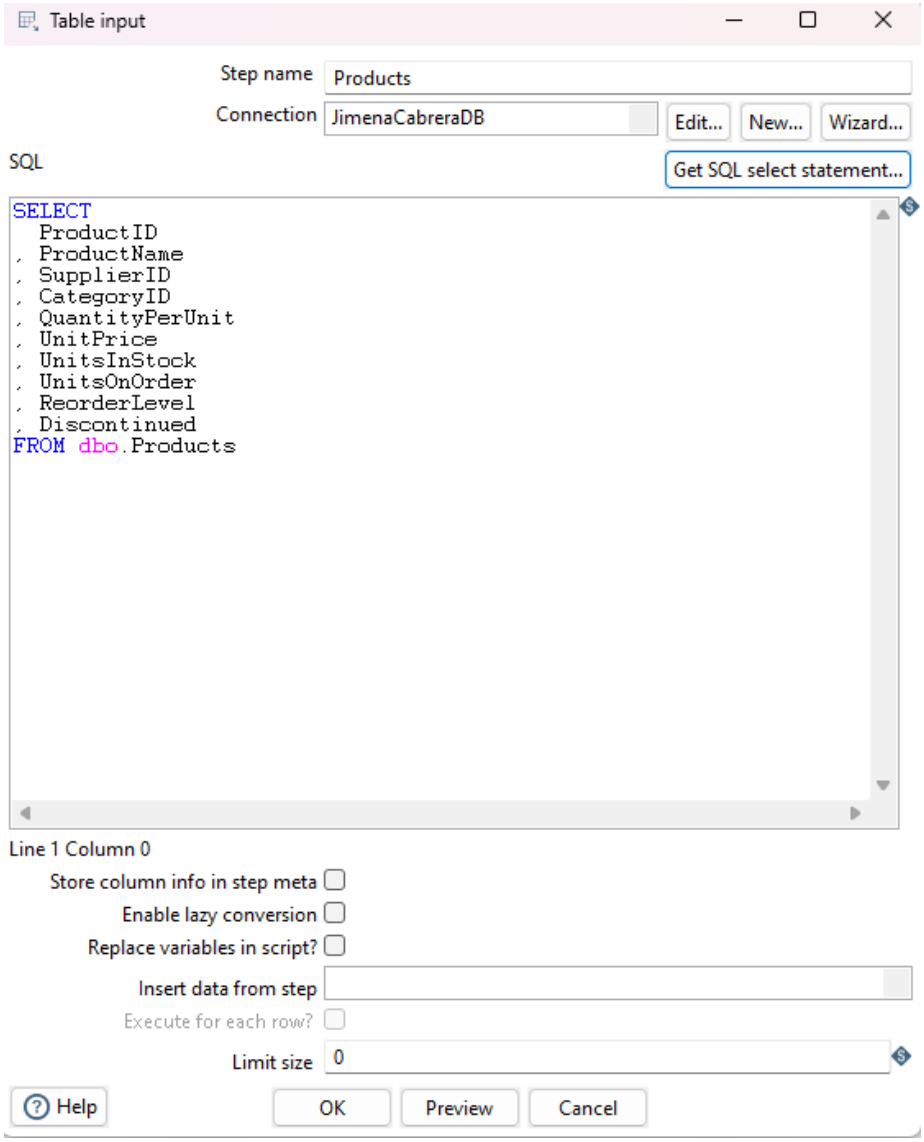


Table input
Step name
Products
Connection
JimenaCabreraDB
Edit...
New...
Wizard...
SQL
Get SQL select statement...
SELECT
ProductID
, ProductName
, SupplierID
, CategoryID
, QuantityPerUnit
, UnitPrice
, UnitsInStock
, UnitsOnOrder
, ReorderLevel
, Discontinued
FROM dbo.Products
Line 1 Column 0
Store column info in step meta
Enable lazy conversion
Replace variables in script?
Insert data from step
Execute for each row?
Limit size
0
Help
OK
Preview
Cancel

- **Suppliers**

Table input

Step name: Suppliers

Connection: JimenaCabreraDB

Edit... New... Wizard...

SQL

Get SQL select statement...

```
SELECT
  SupplierID
, CompanyName
, ContactName
, ContactTitle
, Address
, City
, Region
, PostalCode
, Country
, Phone
, Fax
, HomePage
FROM dbo.Suppliers
```

Line 1 Column 0

Store column info in step meta ☐

Enable lazy conversion ☐

Replace variables in script? ☐

Insert data from step

Execute for each row? ☐

Limit size 0

Help OK Preview Cancel