

Taller Transformaciones

Nombre: Esteban Mauricio Pérez Cabrera

Código: 221034063

1. Que tablas están relacionadas y con qué campos o llaves foráneas están relacionadas, indica cuales y sus campos de relación.

Territories(RegionID) → Region

EmployeeTerritories(TerritoryID, EmployeeID) → Territories, Employees

Orders(EmployeeID, OrderID, ShipperID) → Employees, Customers, Shippers

CustomerCustomerDemo(CustomerID) → Customers

CustomerDemographics(CustomerTypeID) → CustomerCustomerDemo

OrderDetails(OrderID, ProductID) → Orders, Products

Products(SupplierID, CategoryID) → Suppliers, Categories

2. 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;
```

Captura

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The right pane shows a SQL query window with the following query:

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

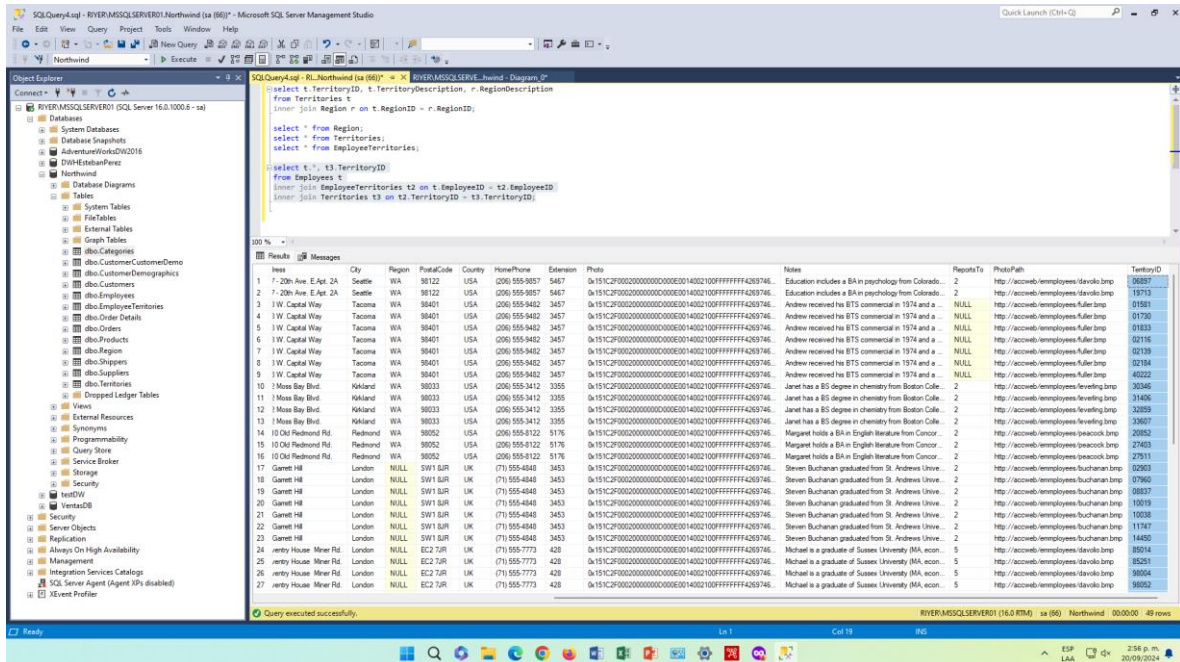
The bottom pane displays the 'Results' window, showing the output of the query. The results are as follows:

TerritoryID	TerritoryDescription	RegionDescription
01581	Westboro	Eastern
01730	Bedford	Eastern
01833	Georgetown	Eastern
02116	Boston	Eastern
02139	Cambridge	Eastern
02184	Braintree	Eastern
02903	Providence	Eastern
03049	Holla	Northern
03051	Pittsborough	Northern
06597	Wilbur	Eastern
07960	Montezuma	Eastern
08837	Edson	Eastern
10019	New York	Eastern
10238	New York	Eastern
11747	Melville	Eastern
14450	Fairport	Eastern
19428	Philadelphia	Northern
19713	Neward	Eastern
20052	Rockville	Eastern
27403	Greensboro	Eastern
27511	Clay	Eastern
29002	Columbia	Southern
30346	Atlanta	Southern
31406	Savannah	Southern
32899	Orlando	Southern
33607	Tampa	Southern
40222	Louisville	Eastern
44122	Reedwood	Northern

The status bar at the bottom indicates that the query was executed successfully, returning 33 rows.

3. 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 t.*, t3.TerritoryID
from Employees t
inner join EmployeeTerritories t2 on t.EmployeeID = t2.EmployeeID
inner join Territories t3 on t2.TerritoryID = t3.TerritoryID;
```



The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the server structure, including databases, tables, and views. The right pane shows a query window with the following SQL code:

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

select * from Region;
select * from Territories;
select * from EmployeeTerritories;

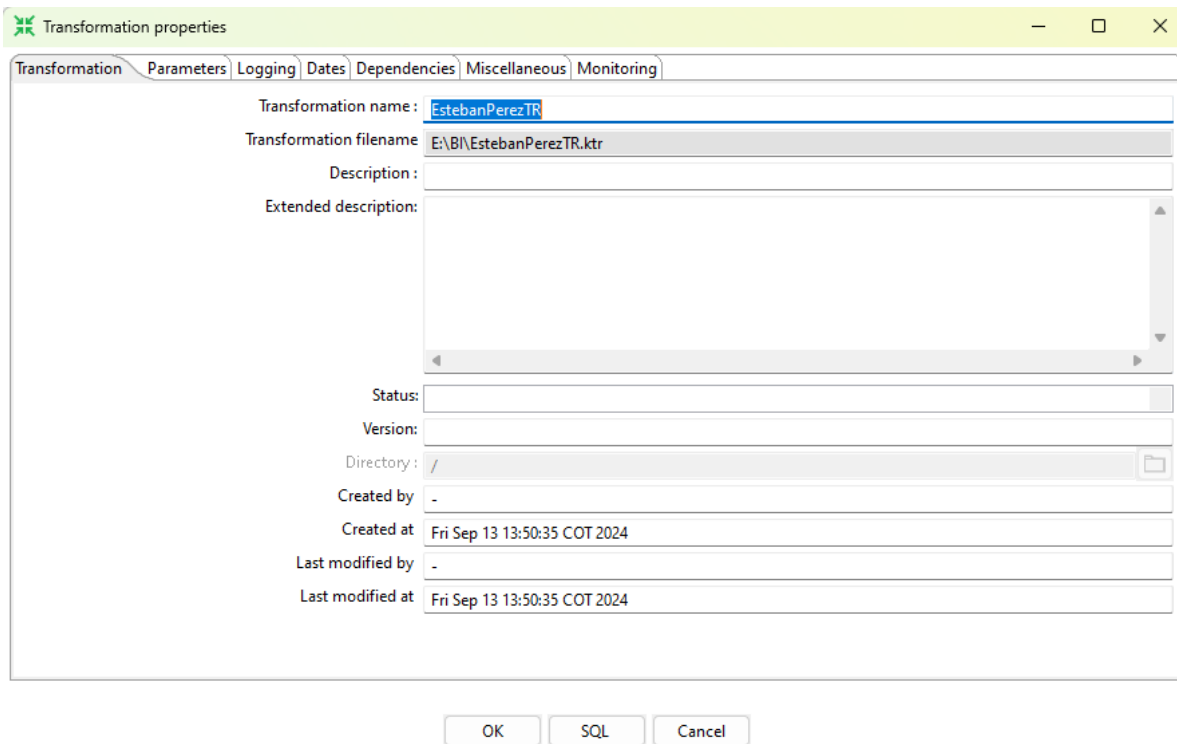
select t.*, t3.TerritoryID
from Employees t
inner join EmployeeTerritories t2 on t.EmployeeID = t2.EmployeeID
inner join Territories t3 on t2.TerritoryID = t3.TerritoryID;
```

The query results are displayed in a table with the following columns: EmployeeID, City, Region, PostalCode, Country, HomePhone, Extension, Photo, Notes, ReportsTo, PhotoPath, and TerritoryID. The table contains 49 rows of data, including employees like Janet, Margaret, Steven, and Michael, along with their respective territories and regions.

4. Complementa la Query anterior, para obtener adicionalmente la descripción del territorio (TerritoryDescription), Tip: puedes agregar otra tabla con alias y agregar un nuevo Inner Join. ¿Que Query ejecuto?

```
select t.*, t3.TerritoryID, t3.TerritoryDescription
from Employees t
inner join EmployeeTerritories t2 on t.EmployeeID = t2.EmployeeID
inner join Territories t3 on t2.TerritoryID = t3.TerritoryID;
```


2. Cree una nueva transformación con nombre: nombreakellidoTR



The image shows the 'Transformation properties' dialog box in Pentaho. The 'Transformation' tab is selected. The 'Transformation name' field is filled with 'EstebanPerezTR'. The 'Transformation filename' field is filled with 'E:\BI\EstebanPerezTR.ktr'. The 'Description' and 'Extended description' fields are empty. The 'Status' and 'Version' fields are empty. The 'Directory' field is filled with '/'. The 'Created by' field is filled with '-'. The 'Created at' field is filled with 'Fri Sep 13 13:50:35 COT 2024'. The 'Last modified by' field is filled with '-'. The 'Last modified at' field is filled with 'Fri Sep 13 13:50:35 COT 2024'. At the bottom, there are three buttons: 'OK', 'SQL', and 'Cancel'.

Transformation name:	EstebanPerezTR
Transformation filename:	E:\BI\EstebanPerezTR.ktr
Description:	
Extended description:	
Status:	
Version:	
Directory:	/
Created by:	-
Created at:	Fri Sep 13 13:50:35 COT 2024
Last modified by:	-
Last modified at:	Fri Sep 13 13:50:35 COT 2024

OK SQL Cancel

3. Cargue las tablas:

- Customers
- Employees
- Products
- Suppliers

