

Modelo multidimensional para datamart de ventas

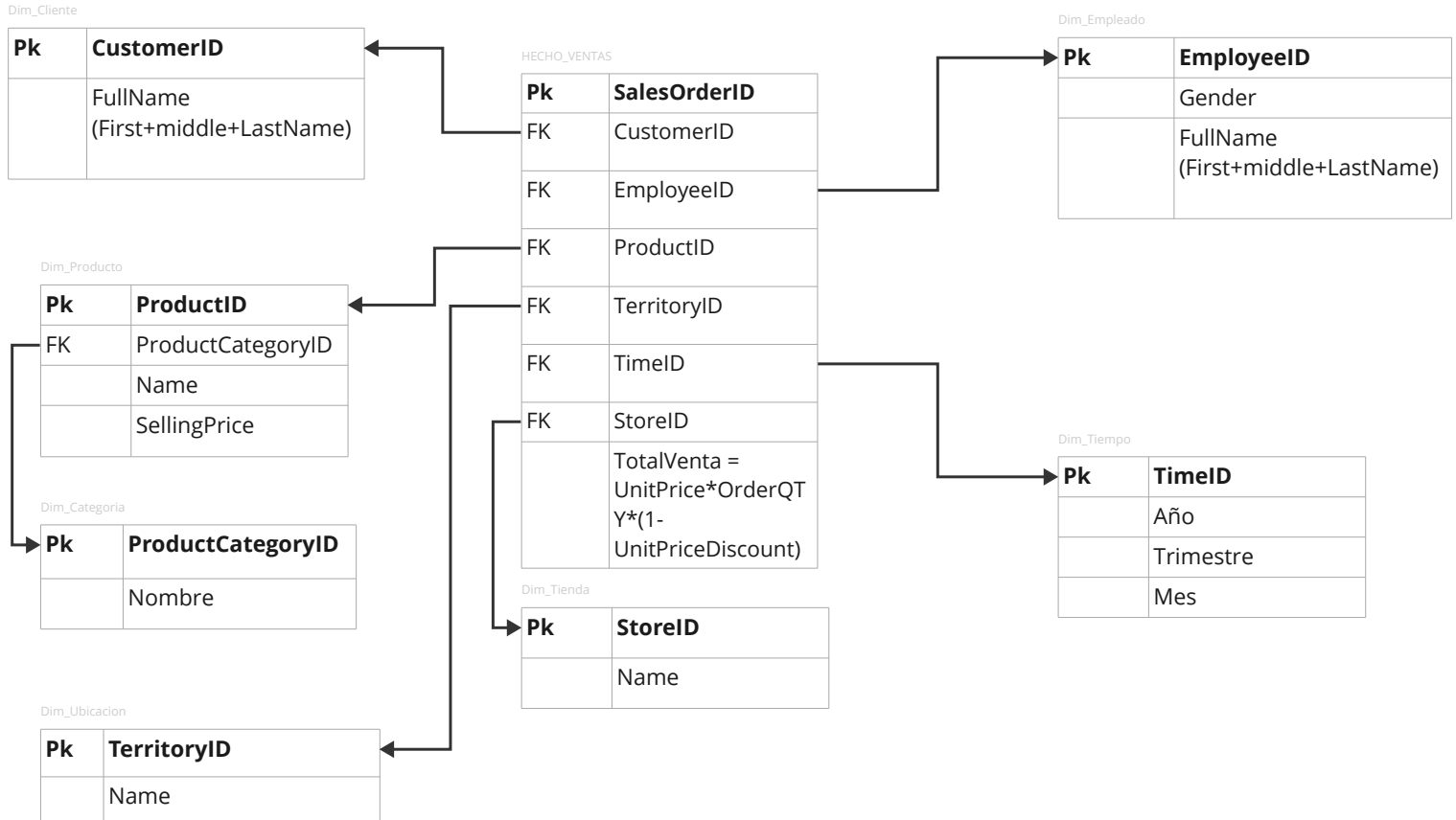
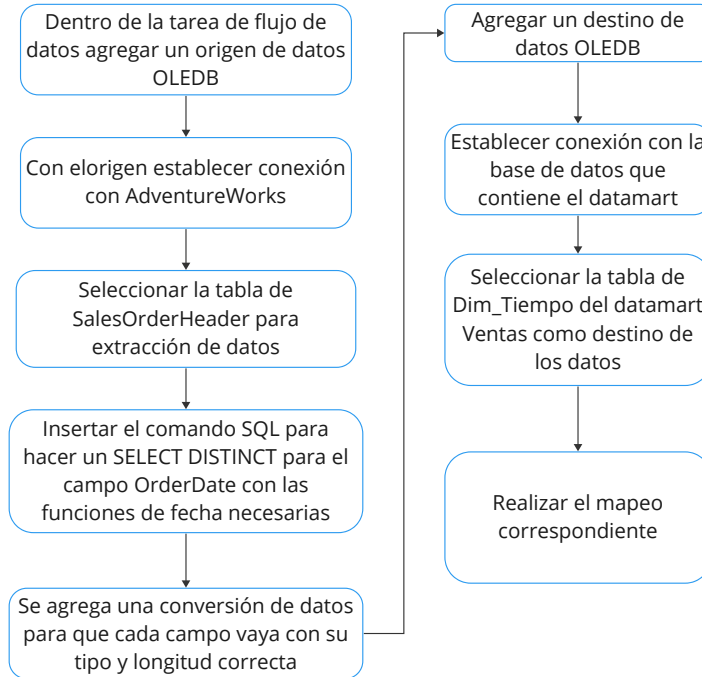
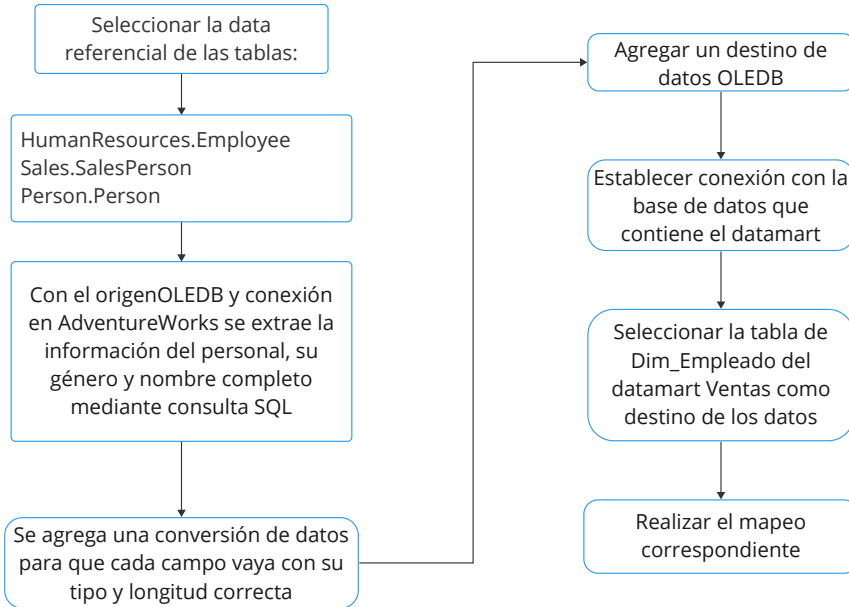


Diagrama de flujo para el proceso de ETL: Dimensión Tiempo



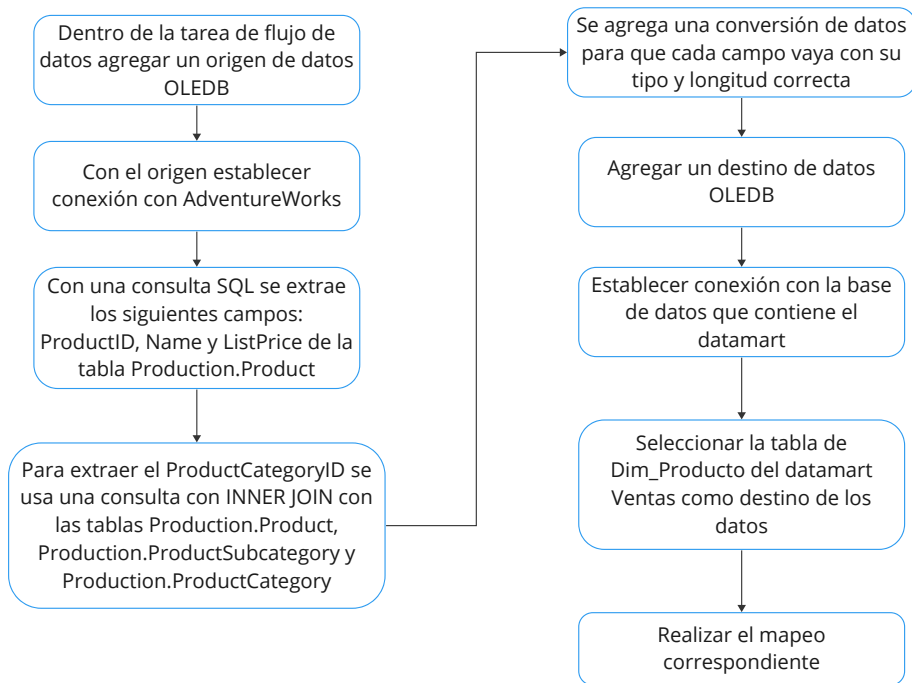
```
SELECT Distinct([OrderDate]) as  
    TimeID,  
    YEAR(OrderDate) AS Anio,  
    DATEPART(QUARTER,OrderDate)  
        as Trimestre,  
    DATEPART(MONTH,OrderDate)  
        as Mes  
FROM [AdventureWorks2019].  
    [Sales].[SalesOrderHeader]
```

Diagrama de flujo para el proceso de ETL: Dimensión Empleados



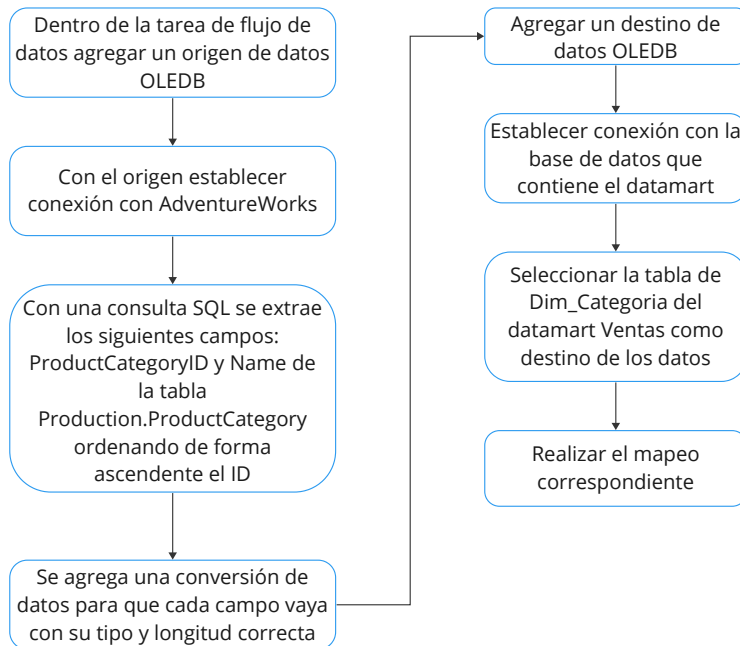
```
SELECT Distinct  
    ssp.BusinessEntityID as  
    EmployeeID,CONCAT(pp.FirstName,'',  
    pp.MiddleName, ' ', pp.LastName ) as  
    FullName, Gender  
FROM HumanResources.Employee he  
    INNER JOIN Person.Person pp  
        ON he.BusinessEntityID =  
        pp.BusinessEntityID  
    INNER JOIN Sales.SalesPerson ssp  
        ON he.BusinessEntityID =  
        ssp.BusinessEntityID  
    INNER JOIN Sales.SalesTerritory Tr  
        ON ssp.TerritoryID = Tr.TerritoryID
```

Diagrama de flujo para el proceso de ETL: Dimensión Producto



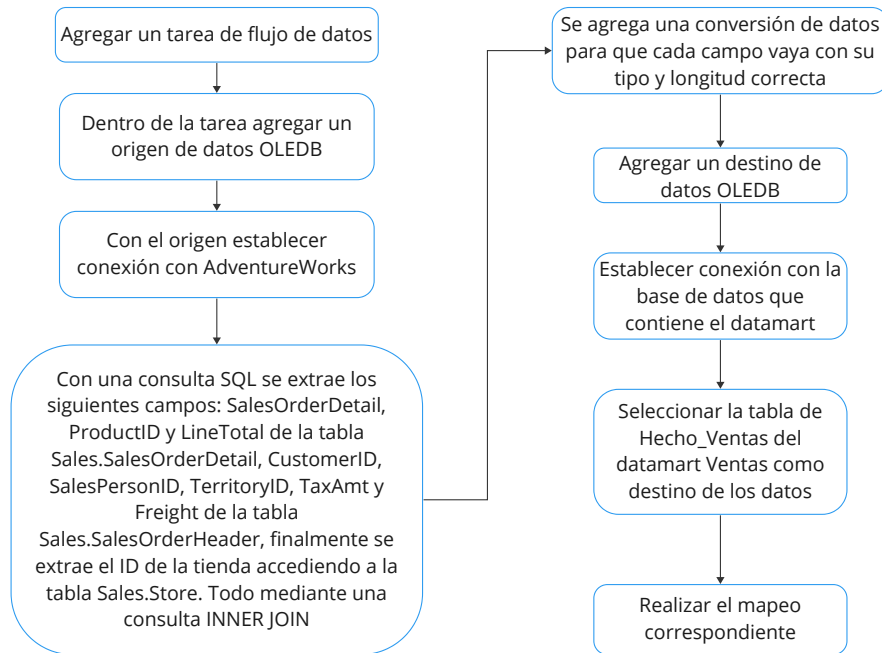
```
SELECT PRO.ProductID, PRO.Name,
       CAT.ProductCategoryID
FROM Production.Product PRO
INNER JOIN
Production.ProductSubcategory SUB
ON PRO.ProductSubcategoryID =
SUB.ProductSubcategoryID
INNER JOIN Production.ProductCategory
CAT
ON CAT.ProductCategoryID =
SUB.ProductCategoryID
ORDER BY PRO.ProductID ASC
```

Diagrama de flujo para el proceso de ETL: Dimensión Categoría



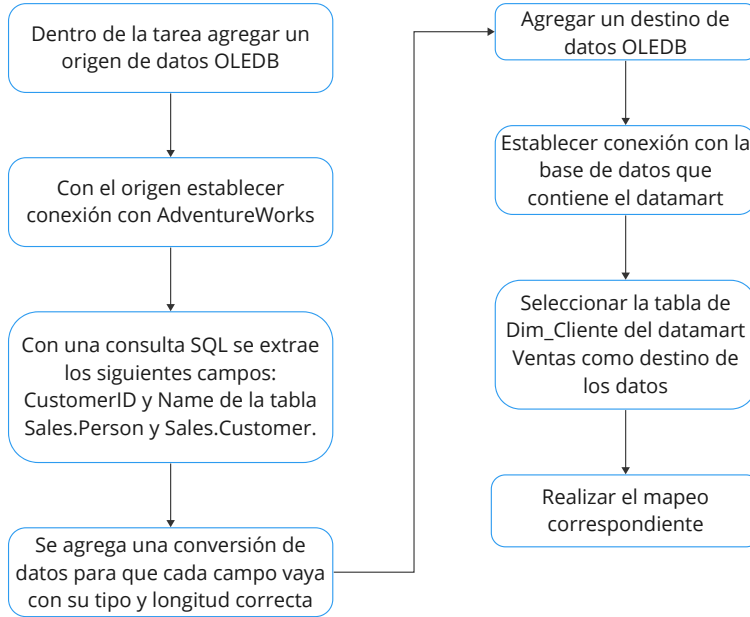
```
SELECT
ProductCategoryID,Name
FROM
[AdventureWorks2019].
[Production].[ProductCategory]
ORDER BY
ProductCategoryID ASC
```

Diagrama de flujo para el proceso de ETL: Hecho Ventas



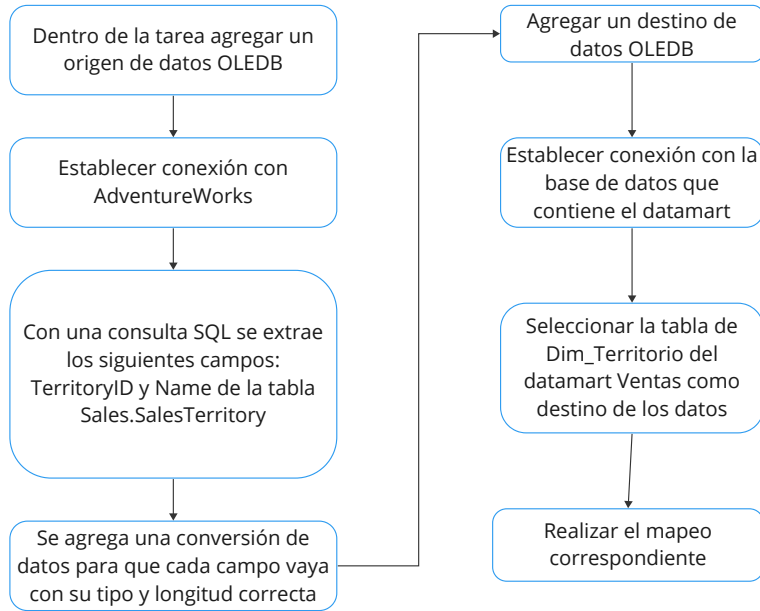
```
SELECT
    SOrder.SalesOrderID, SOrder.CustomerID, SOrder.SalesPersonID,
    SDetail.ProductID, SOrder.TerritoryID, CONVERT(DATE, SOrder.OrderDate) AS
    TimeID, ST.BusinessEntityID as StoreID,
    SUM(SDetail.UnitPrice*SDetail.OrderQty*(1-SDetail.UnitPriceDiscount)) as
    Total_venta
FROM [AdventureWorks2019].[Sales].[SalesOrderHeader] SOrder
    INNER JOIN Sales.SalesOrderDetail SDetail
    ON SOrder.SalesOrderID = SDetail.[SalesOrderID]
    INNER JOIN Sales.Store ST
    ON ST.SalesPersonID = SOrder.SalesPersonID
GROUP BY SOrder.SalesOrderID, SOrder.CustomerID, SOrder.SalesPersonID,
    SDetail.ProductID, SOrder.TerritoryID, ST.BusinessEntityID, SOrder.OrderDate
```

Diagrama de flujo para el proceso de ETL: Dimensión Cliente



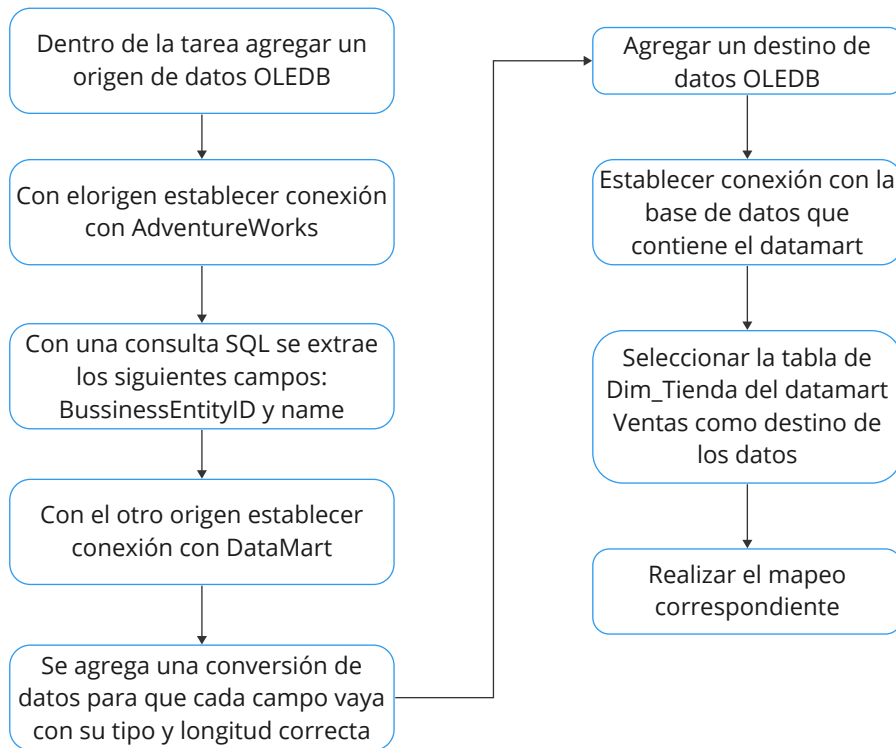
```
SELECT
SC.CustomerID, CONCAT(PER.FirstName, '
', PER.MiddleName, ' ', PER.LastName ) as
FullName
FROM [AdventureWorks2019].
[Sales].[Customer] SC
INNER JOIN
[AdventureWorks2019].[Person].[Person]
PER
ON PER.BusinessEntityID=SC.PersonID
ORDER BY SC.CustomerID ASC
```

Diagrama de flujo para el proceso de ETL: Dimensión Territorio



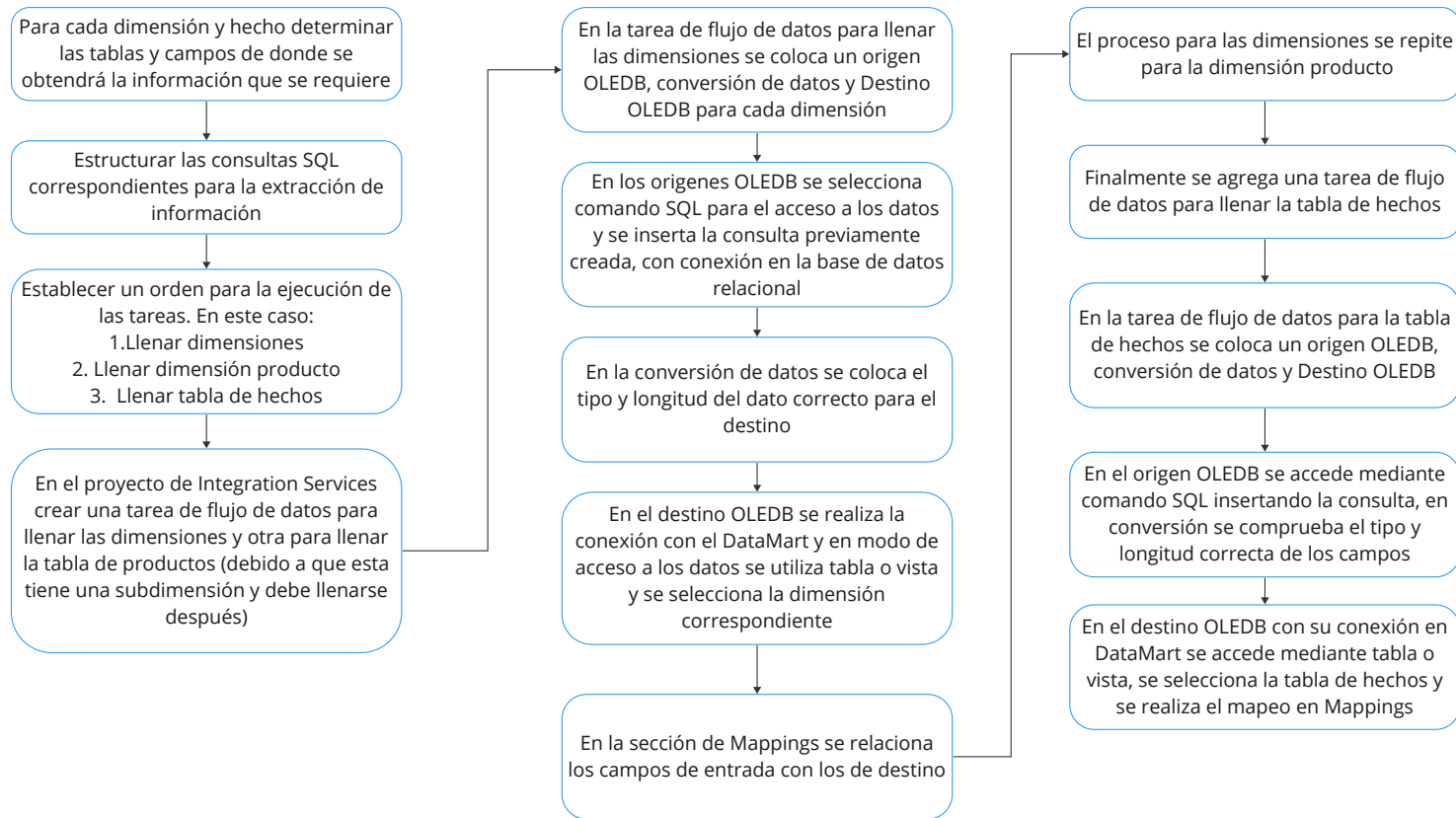
```
SELECT
  Tr.TerritoryID, Tr.Name
FROM [AdventureWorks2019].
[Sales].[SalesTerritory] Tr
ORDER BY TR.TerritoryID ASC
```


Diagrama de flujo para el proceso de ETL: Dimensión Tienda



```
SELECT DISTINCT
st.[BusinessEntityID], st.[Name]
FROM
[AdventureWorks2019].[Sales].[Store] st
ORDER BY st.[BusinessEntityID] ASC
```

Diagrama de flujo para el proceso de ETL



Ejecución de ETL en Integration Services Visual Studio

