1. **Understand the source codes**
   1. **Customer (Sales):**

**Key fields: CustomerID, PersonID, StoreID, TerritoryID.**

**Additional fields:** AccountNumber, rowguid, ModifiedDate.

* 1. **Person (Person):**

**Key field: BusinessEntityID (matches PersonID in Customer).**

**Additional fields:** Name details (FirstName, LastName), EmailPromotion ,AdditionalContact Info,

Demographics,rowguid ,ModifiedDate

* 1. **Store (Sales):**

**Key field: BusinessEntityID (matches StoreID in Customer).**

**Additional fields: Name, Demographics.**

* 1. **SalesTerritory (Sales):**

**Key field: TerritoryID (matches TerritoryID in Customer).**

**Additional fields: Name, Group, CountryRegionCode,Sak**

1. **Design the ETL process**

Extract data from customer , person ,store and sales territory .

-- Query to extract raw data

SELECT

C.CustomerID,

P.FirstName,

P.LastName,

CONCAT(P.FirstName, ' ', P.LastName) AS FullName,

P.EmailPromotion,

S.Name AS StoreName,

S.Demographics,

T.Name AS TerritoryName,

T.CountryRegionCode,

C.AccountNumber,

C.ModifiedDate

FROM Customer AS C

LEFT JOIN Person AS P ON C.PersonID = P.BusinessEntityID

LEFT JOIN Store AS S ON C.StoreID = S.BusinessEntityID

LEFT JOIN SalesTerritory AS T ON C.TerritoryID = T.TerritoryID;

CREATE TABLE DimCustomer (

CustomerKey INT IDENTITY(1,1) PRIMARY KEY,

CustomerID INT,

FullName NVARCHAR(255),

EmailPromotion INT,

StoreName NVARCHAR(255),

Demographics NVARCHAR(MAX),

TerritoryName NVARCHAR(255),

CountryRegionCode NVARCHAR(50),

AccountNumber NVARCHAR(50),

ModifiedDate DATETIME

);