

## TP2 : Derived column transformation in SSIS

**Matière:** Data Integration Services

**Classe :** 2BI \ 2 Master DS

**Enseignante :** Mme FENNIA Safa

### **Objectifs:**

1. To Load data from csv file to SQL Server table using SSIS
2. To add columns to the data flow

### **Derived Column Transformation**

- Derived Column Transformation is a component that can be used to modify the value of a column on the fly before writing it to destination.
- For Example we can write some if else statements for a column to modify its value or we can make a copy of an existing column.

### **Travail demandé:**

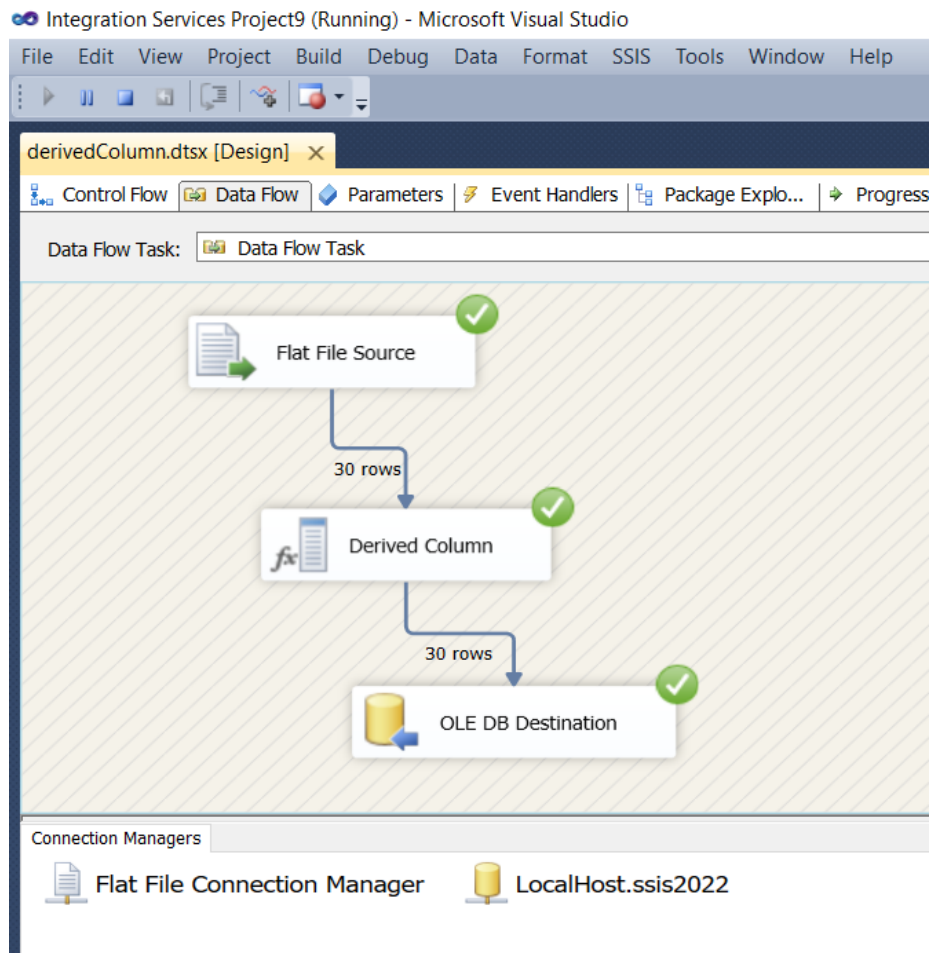
 Les nouvelles colonnes:

- **Fullname:** combinaison de firstname et last name
- **Gender1:** est calculé à partir de Gender en utilisant la fonction Substring
- **Gender2 :** est calculé à partir de la colonne Gender en utilisant If Else
- **Company2 :** une copie de la colonne Column

1. Load le fichier testdata1.csv avec SSIS
2. Ajouter le composant derived column
  - **Fullname :** [first\_name]+" "+ [last\_name]
  - **Gender1:** SUBSTRING( [Gender] , 1, 1 )
  - **Gender2 :** [Gender]="Male"? "M" : "F"
  - **Company2 :** UPPER( [Company\_Name] )

**Ajouter OLE DB Destination**

3. New connection >> table or view : fast load
4. New : create Table Derived Data
5. Executer le package



File Edit View Query Project Debug Tools Window Help

master Execute Debug

Object Explorer

Connect

DESKTOP-RG1M5D7 (SQL Server 11.0)

- Databases
  - System Databases
  - Database Snapshots
  - adv
  - clientsDB
  - DWH\_Gestion\_Livres
  - gestion\_Livres
  - ReportServer
  - ReportServerTempDB
  - ssis2022
    - Database Diagrams
    - Tables
      - System Tables
      - FileTables
      - dbo.courses
      - dbo.DerivedData
      - dbo.DimEmployee
      - dbo.Emp\_Source
      - dbo.person
      - dbo.persondataxml
    - Views
    - Synonyms
    - Programmability
    - Service Broker
    - Storage
    - Security
  - tp2DW
  - tp3
  - Security
  - Server Objects
  - Replication
  - AlwaysOn High Availability
  - Management
  - Integration Services Catalogs

SQLQuery1.sql - DE...7\Safa\_Fennia (54))

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP 1000 [id]
, [first_name]
, [last_name]
, [Gender]
, [Company_Name]
, [Full Name]
, [Gender 1]
, [Gender 2]
, [Company 2]
FROM [ssis2022].[dbo].[DerivedData]
  
```

100 %

Results Messages

	id	first_na...	last_name	Gender	Company_Na...	Full Name	Gende...	Gende...	Company 2
1	1	Dorothy	Lawson	Female	Youtags	Dorothy Lawson	F	F	YOUTAGS
2	2	Frances	Oliver	Female	Blogtag	Frances Oliver	F	F	BLOGTAG
3	3	Marilyn	Garrett	Female	Voomm	Marilyn Garrett	F	F	VOOMM
4	4	Deborah	Watkins	Female	Kazu	Deborah Watkins	F	F	KAZU
5	5	Aaron	Morrison	Male	Quatz	Aaron Morrison	M	M	QUATZ
6	6	Johnny	Daniels	Male	Aimbu	Johnny Daniels	M	M	AIMBU
7	7	Sean	Mccooy	Male	Browsecat	Sean Mccooy	M	M	BROWSECAT
8	8	Anna	Williams	Female	Yodo	Anna Williams	F	F	YODO
9	9	Patricia	Rose	Female	Podcat	Patricia Rose	F	F	PODCAT
10	10	Tammy	Gilbert	Female	Eadel	Tammy Gilbert	F	F	EADEL
11	11	John	Lewis	Male	Zazio	John Lewis	M	M	ZAZIO
12	12	Linda	Bishop	Female	Topiclounge	Linda Bishop	F	F	TOPICLOUNGE
13	13	Victor	Alexander	Male	Edgepulse	Victor Alexander	M	M	EDGEPULSE
14	14	Linda	Freeman	Female	Ooba	Linda Freeman	F	F	Ooba
15	15	Donna	West	Female	Twinder	Donna West	F	F	TWINDER