

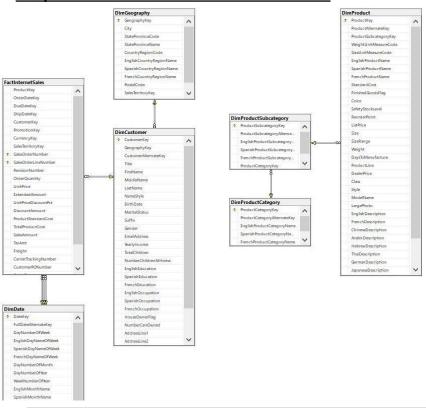


RAPPORT TPS DATAWAREHOUSE

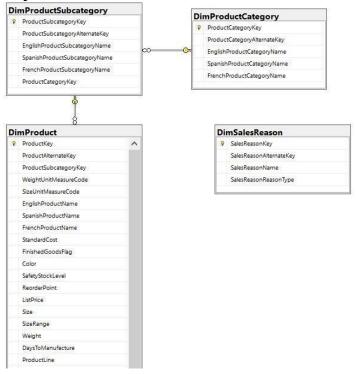
<u>Réalisé par :</u> ELBACHALI MOUAD

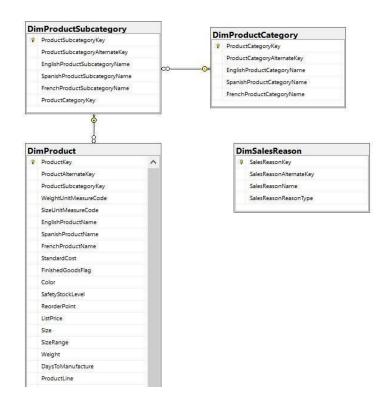
TP1

1. Exploration du DW AdventureWorksDW2012.

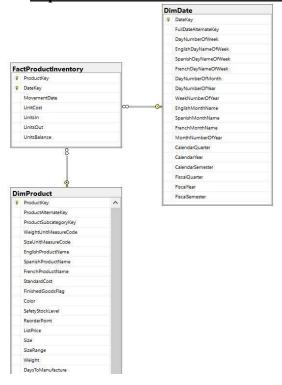


2. Exploration des dimensions d'AdventureWorksDW2012





3. Exploration des tables de faits d'AdventureWorksDW2012



Création de LightAdventureWorksDW

```
USE master;
IF DB_ID('LIGHTADVENTUREWORKSDW') IS NOT NULL
                                                 DROP DATABASE LIGHTADVENTUREWORKSDW;
                          GO
                     □CREATE DATABASE LIGHTADVENTUREWORKSDW
                                                 ON PRIMARY
                                                   (NAME = N'LIGHTADVENTUREWORKSDW', FILENAME = N'F:\sqlServeur_install\database_files\LIGHTADVENTUREWORKSDW.mdf',
                                                 SIZE = 307200KB , FILEGROWTH = 10240KB )
                                                  (\texttt{NAME} = \texttt{N'LIGHTADVENTUREWORKSDW\_log'}, \ \texttt{FILENAME} = \texttt{N'F:} \\ \texttt{SqlServeur\_install} \\ \texttt{Valiants} \\ \texttt{Atabase\_files} \\ \texttt{LIGHTADVENTUREWORKSDW\_log.ldf'}, \\ \texttt{Valiants} \\ \texttt{Va
                                              SIZE = 51200KB , FILEGROWTH = 10%);
                          ALTER DATABASE LIGHTADVENTUREWORKSDW SET RECOVERY SIMPLE WITH NO_WAIT;
             GO
100 %
  Messages
               Commands completed successfully.
               Completion time: 2023-03-02T11:24:23.9076933+01:00
```

Création de la séquence CustomerKeyDWKey

```
create_seq_custom...AB3P93\USER (51)) # X
     USE LIGHTADVENTUREWORKSDW;
     GO
   ∃IF OBJECT_ID('dbo.SeqCustomerDwKey', 'SO') IS NOT NULL
         DROP SEQUENCE dbo.SeqCustomerDwKey;
     GO
   □ CREATE SEQUENCE dbo.SeqCustomerDwKey AS INT
         START WITH 1
         INCREMENT BY 1;
     GO
100 % -
Messages
  Commands completed successfully.
   Completion time: 2023-03-02T11:47:16.6698368+01:00
```

```
USE LIGHTADVENTUREWORKSDW;
   GO
  ∃CREATE TABLE dbo.Customers
       CustomerDwKey INT NOT NULL,
       CustomerKey INT NOT NULL,
       FullName NVARCHAR(150) NULL,
       EmailAddress NVARCHAR(50) NULL,
       BirthDate DATE NULL,
       MaritalStatus NCHAR(1) NULL,
       Gender NCHAR(1) NULL,
       Education NVARCHAR(40) NULL,
       Occupation NVARCHAR(100) NULL,
       City NVARCHAR(30) NULL,
00 %
Messages
 Commands completed successfully.
 Completion time: 2023-03-02T12:20:00.1873182+01:00
      USE LIGHTADVENTUREWORKSDW;
     □ CREATE TABLE dbo.Products
           ProductKey INT NOT NULL,
           ProductName NVARCHAR(50) NULL,
           Color NVARCHAR(15) NULL,
           Size NVARCHAR(50) NULL,
           SubcategoryName NVARCHAR(50) NULL,
           CategoryName NVARCHAR(50) NULL,
           CONSTRAINT PK_Products PRIMARY KEY (ProductKey)
      );
      GO
    % +
    Messages
    Commands completed successfully.
    Completion time: 2023-03-02T12:28:07.0627749+01:00
 create_dimDate.sq...AB3P93\USER (76)) * Create_faitInterne...HAB3P93

☐CREATE TABLE dbo.Dates

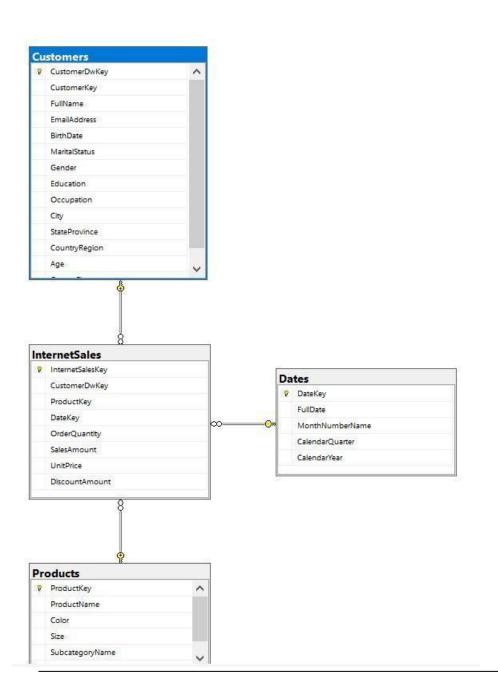
         DateKey INT NOT NULL IDENTITY(1,1),
         FullDate DATE NOT NULL,
         MonthNumberName NVARCHAR(15) NULL,
         CalendarQuarter TINYINT NULL,
         CalendarYear SMALLINT NULL,
          CONSTRAINT PK_Dates PRIMARY KEY (DateKey)
     GO
100 % -
 Messages
   Commands completed successfully.
   Completion time: 2023-03-02T12:35:53.7353088+01:00
```

Création de la table de faits InternetSales

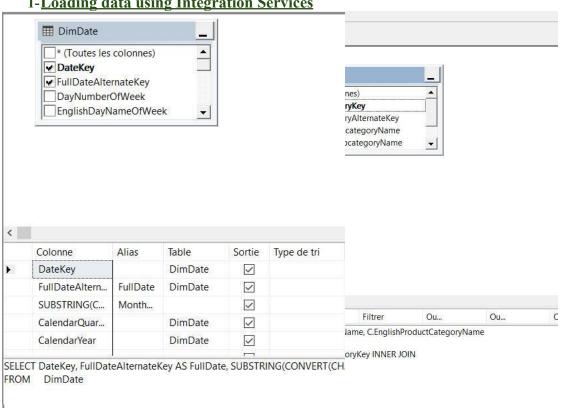
```
create_faitInterne...HAB3P93\USER (51)) = X
    USE LIGHTADVENTUREWORKSDW;
     GO
   CREATE TABLE dbo.InternetSales
         InternetSalesKey INT NOT NULL IDENTITY(1,1),
         CustomerDwKey INT NOT NULL,
         ProductKey INT NOT NULL,
         DateKey INT NOT NULL,
         OrderQuantity SMALLINT NOT NULL DEFAULT 0,
         SalesAmount MONEY NOT NULL DEFAULT 0,
         UnitPrice MONEY NOT NULL DEFAULT 0,
         DiscountAmount FLOAT NOT NULL DEFAULT 0,
         CONSTRAINT PK_InternetSales PRIMARY KEY (InternetSalesKey)
     );
     GO
100 % + 4
Messages
  Commands completed successfully.
  Completion time: 2023-03-02T12:36:33.3012037+01:00
```

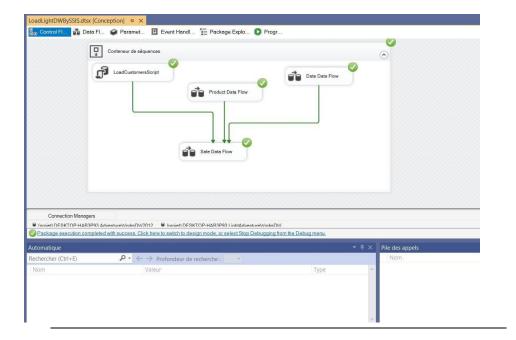
Ajout de clé étrangère à InternetSales

```
constraint_foreign...HAB3P93\USER (51)) + ×
    USE LIGHTADVENTUREWORKSDW;
    GO
   □ALTER TABLE dbo.InternetSales ADD CONSTRAINT
         FK_InternetSales_Customers FOREIGN KEY(CustomerDwKey)
         REFERENCES dbo.Customers (CustomerDwKey);
   ALTER TABLE dbo.InternetSales ADD CONSTRAINT
         FK InternetSales Products FOREIGN KEY(ProductKey)
         REFERENCES dbo.Products (ProductKey);
   ⊟ALTER TABLE dbo.InternetSales ADD CONSTRAINT
         FK_InternetSales_Dates FOREIGN KEY(DateKey)
         REFERENCES dbo.Dates (DateKey);
    GO
100 % -
Messages
  Commands completed successfully.
   Completion time: 2023-03-02T12:40:34.4847394+01:00
```

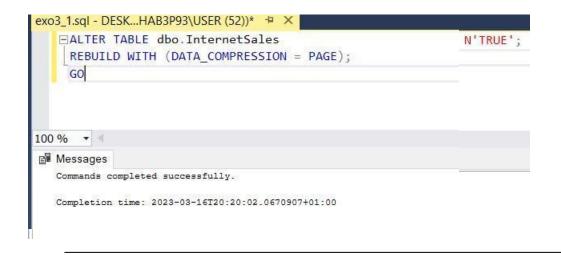


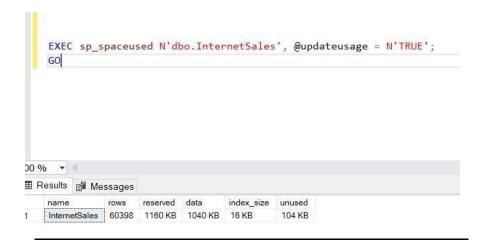
1-Loading data using Integration Services



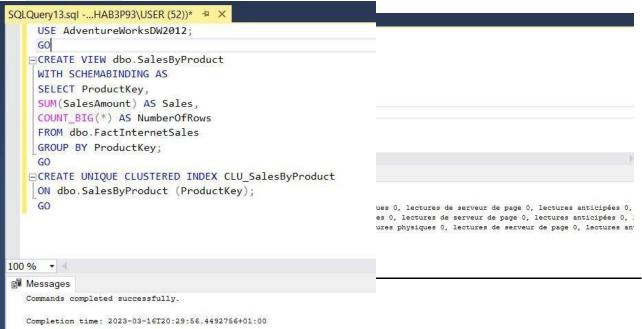


2-Compressions





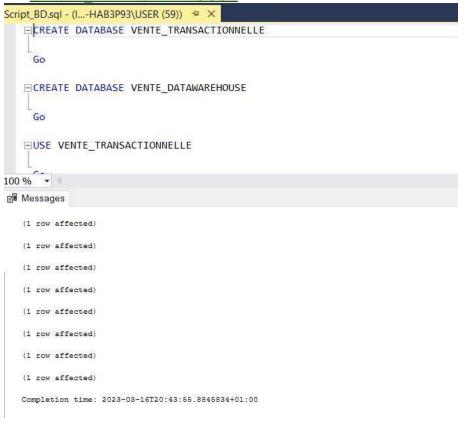
2.1 Indexation





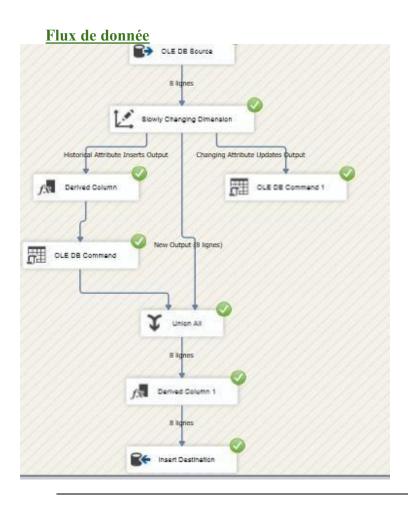
TP5

<u>Création des Bases de Données VENTE_TRANSACTIONEL et VENTE_DATAWAREHOUSE</u>



Définition de la source et de la cible de donnée







TP6

