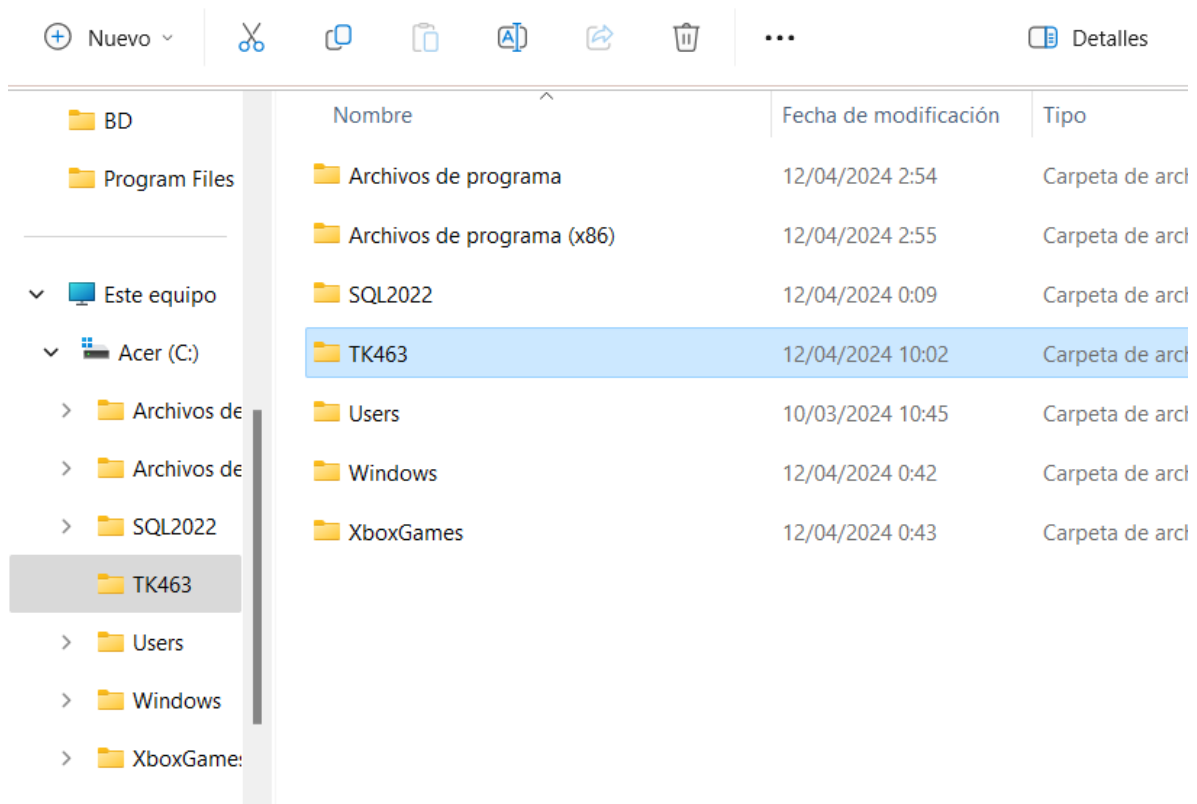
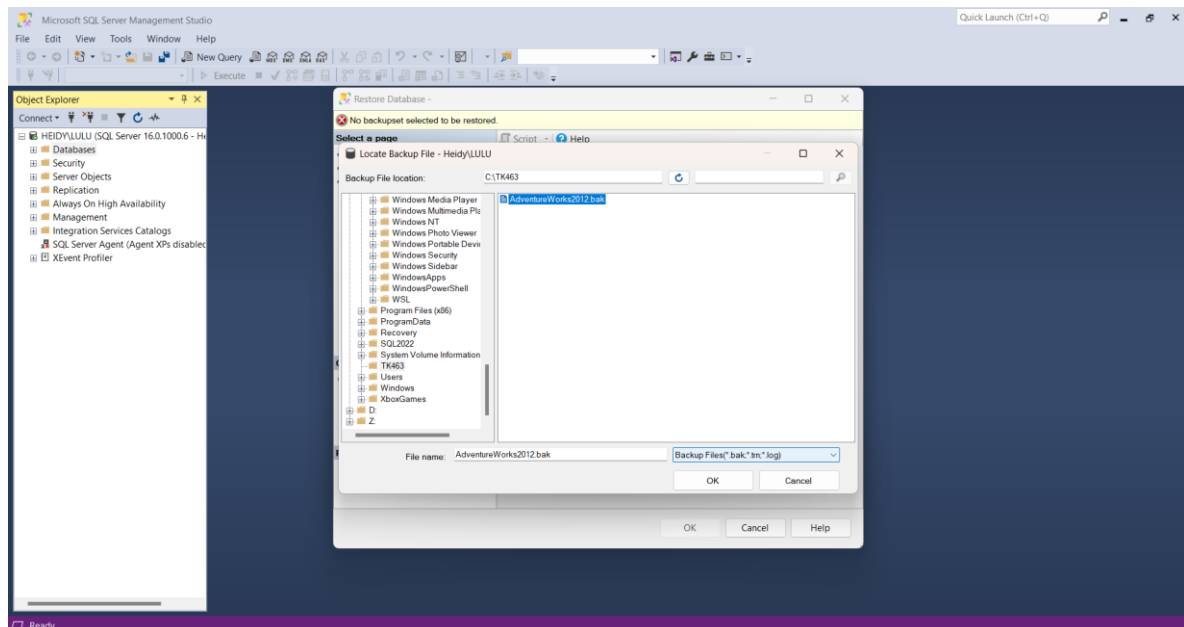


EJERCICIO 1 Crear una base de datos de almacén de datos y una secuencia

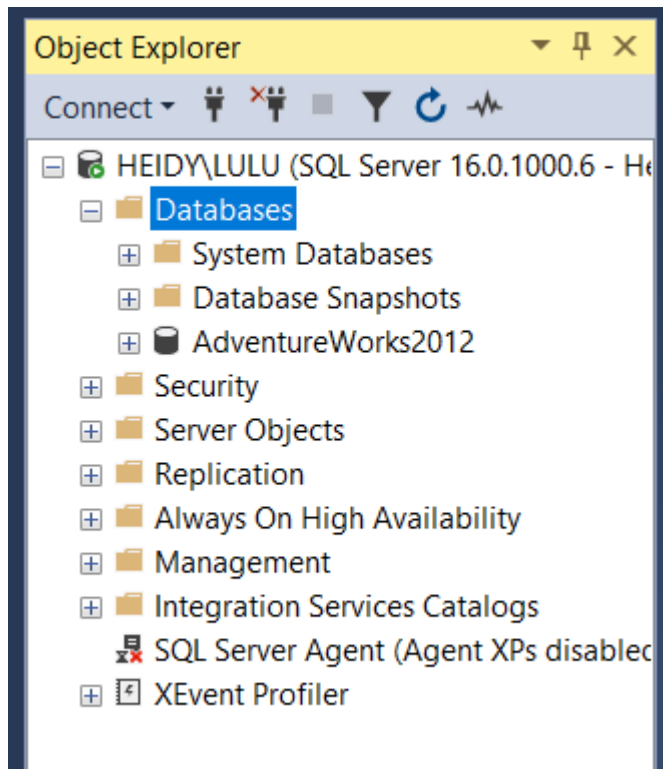
En mi disco local C cree una carpeta con el nombre: TK463



Estaré trabajando en mi carpeta, posteriormente cargo el backup



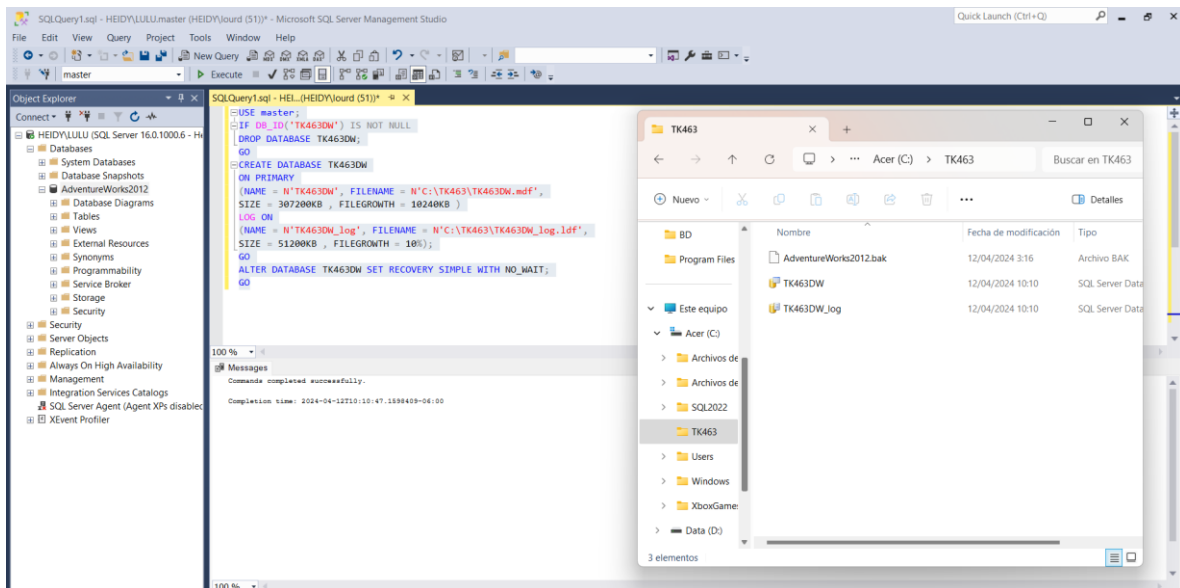
Una vez cargado



Ejecutamos el siguiente código

```
USE master;
IF DB_ID('TK463DW') IS NOT NULL
DROP DATABASE TK463DW;
GO
CREATE DATABASE TK463DW
ON PRIMARY
(NAME = N'TK463DW', FILENAME = N'C:\TK463\TK463DW.mdf',
SIZE = 307200KB , FILEGROWTH = 10240KB )
LOG ON
(NAME = N'TK463DW_log', FILENAME = N'C:\TK463\TK463DW_log.ldf',
SIZE = 51200KB , FILEGROWTH = 10%);
GO
ALTER DATABASE TK463DW SET RECOVERY SIMPLE WITH NO_WAIT;
GO
```

Y nos genera unas carpetas en la carpeta



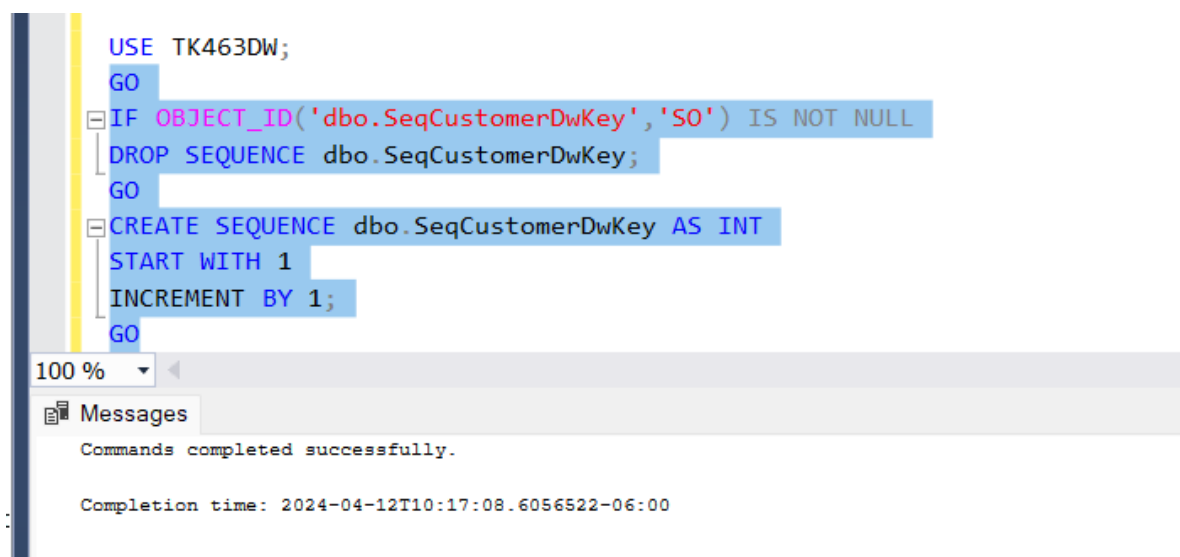
Continuo con mi creación de mi secuencia

creamos una secuencia que nos va a servir para generar valores únicos, esta va de uno en uno, *Si ya existe, va a ser eliminada.*

```

USE TK463DW;
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

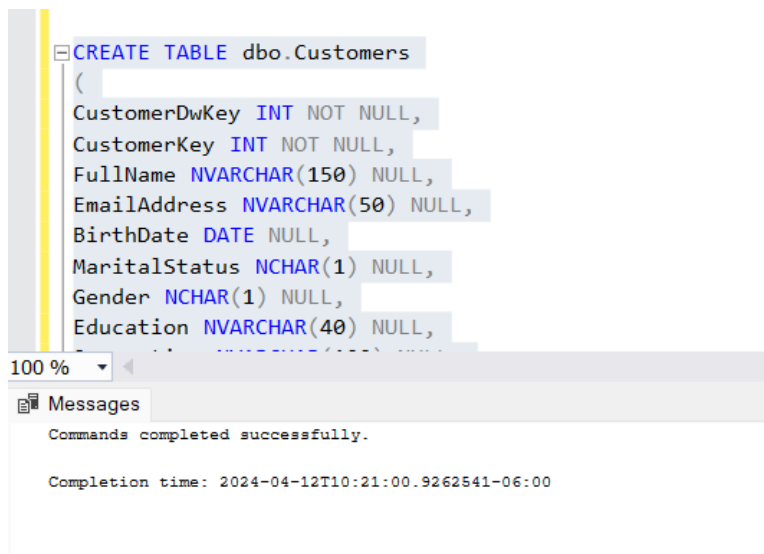
```



Comienzo con la creación de mis tablas

Creación de la tabla customers

```
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,
  StateProvince NVARCHAR(50) NULL,
  CountryRegion NVARCHAR(50) NULL,
  Age AS
  CASE
  WHEN DATEDIFF(yy, BirthDate, CURRENT_TIMESTAMP) <= 40
  THEN 'Younger'
  WHEN DATEDIFF(yy, BirthDate, CURRENT_TIMESTAMP) > 50
  THEN 'Older'
  ELSE 'Middle Age'
  END,
  CurrentFlag BIT NOT NULL DEFAULT 1,
  CONSTRAINT PK_Customers PRIMARY KEY (CustomerDwKey)
);
GO
```



Creación de la tabla products

```
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
```

```
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: 2024-04-12T10:22:53.0138493-06:00

Creación de la tabla date

```
CREATE TABLE dbo.Dates  
(  
DateKey INT NOT NULL,  
FullDate DATE NOT NULL,  
MonthNumberName NVARCHAR(15) NULL,  
CalendarQuarter TINYINT NULL,  
CalendarYear SMALLINT NULL,  
CONSTRAINT PK_Dates PRIMARY KEY (DateKey)  
);  
GO
```

```
CREATE TABLE dbo.Dates
(
    DateKey INT NOT NULL,
    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: 2024-04-12T10:23:53.4904542-06:00

Creación de la tabla InternetSales

```
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
```

```
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 %

Messages

Commands completed successfully.

Completion time: 2024-04-12T10:25:28.2224135-06:00

Modifico la tabla anterior

```
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
```

```
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: 2024-04-12T10:27:03.6252714-06:00

Genero mi diagrama

