Presentación



Nombre: Diego

Matricula: 2021-1302

Materia: Electiva 1

Maestro/a: Francis Ramirez

Tema: Carga de Fact Tables

Fecha: 29/11/2024



Se requiere realizar la carga de las siguientes fact's de su <u>base de</u> datos DataWarehouse.

- FactOrders.
- Fact de clientes atendidos.
- Fact de orders details, si la tiene creada.

Nota: Antes de cargar estaos fact tables deben de crear un proceso que permita limpiar las tablas antes de cargarlas.

Deben de subir un documento pdf con la descripción de su proceso debidamente funcional como se muestra en el documento adjunto con la descripción de cada una de la tablas cargadas.

El informe debe incluir el enlace de github para su revisión.

1 - Creamos las tablas en caso de no tenerlas

```
SQLQuery1.sql - U...OPTERO\diego (76))* 😕 🗙
    ⊡CREATE TABLE FactOrders (
        OrderID INT PRIMARY KEY,
CustomerID NVARCHAR(50),
         EmployeeID INT,
         OrderDate DATE,
        ShipperID INT
    □CREATE TABLE FactClientesAtendidos (
        CustomerID NVARCHAR(50),
         EmployeeID INT,
         TotalOrders INT,
         LastOrderDate DATE
    □CREATE TABLE FactOrderDetails (
        OrderID INT,
        ProductID INT,
        UnitPrice DECIMAL(18, 2),
         Quantity INT,
         Discount FLOAT,
         PRIMARY KEY (OrderID, ProductID)
   Commands completed successfully.
   Completion time: 2024-11-29T20:02:46.4505459-04:00
CREATE TABLE FactOrders (
    OrderID INT PRIMARY KEY,
    CustomerID NVARCHAR(50),
    EmployeeID INT,
    OrderDate DATE,
    ShipperID INT
);
G0
CREATE TABLE FactClientesAtendidos (
    CustomerID NVARCHAR(50),
    EmployeeID INT,
    TotalOrders INT,
    LastOrderDate DATE
);
G0
CREATE TABLE FactOrderDetails (
    OrderID INT,
    ProductID INT,
    UnitPrice DECIMAL(18, 2),
    Quantity INT,
    Discount FLOAT,
    PRIMARY KEY (OrderID, ProductID)
);
G0
```

2 - Hacemos el proceso de limpieza por si acaso

```
SQLQuery2.sql - U...OPTERO\diego (69))* - X SQLQuery1.sql - U...OPTERO\diego (76))*

USE DataWarehouse;

60

TRUNCATE TABLE FactOrders;
TRUNCATE TABLE FactClientesAtendidos;
TRUNCATE TABLE FactOrderDetails;

60

109 % - 4

Messages
Commands completed successfully.

Completion time: 2024-11-29T20:09:32.1099617-04:00
```

```
USE DataWarehouse;
GO

TRUNCATE TABLE FactOrders;
TRUNCATE TABLE FactClientesAtendidos;
TRUNCATE TABLE FactOrderDetails;
GO
```

3 - Cargando FactOrders al DataWarehouse

```
SQLQuery3.sql-U...OPTERO\diego (53))* → X SQLQuery2.sql-U...OPTERO\diego (69))*

-- Empezamos con la insersion de datos en la tabla FactOrders
                                                                           SQLQuery1.sql - U...OPTERO\diego (76))*
     □INSERT INTO FactOrders (OrderID, CustomerID, EmployeeID, OrderDate, ShipperID)
          o.OrderID,
          o.CustomerID,
          o.EmployeeID,
          o.OrderDate,
          o.ShipVia
      FROM InstNwnd.dbo.Orders o;
  p Messages
    (830 rows affected)
    Completion time: 2024-11-29T20:19:24.9298283-04:00
INSERT INTO FactOrders (OrderID, CustomerID, EmployeeID, OrderDate, ShipperID)
SELECT
     o.OrderID,
     o.CustomerID,
     o.EmployeeID,
     o.OrderDate,
     o.ShipVia
FROM InstNwnd.dbo.Orders o;
```

4 - Cargando FactClientesAtendidos al DataWarehouse

```
SQLQuery4.sql - U...OPTERO\diego (63))* 💠 🗶 SQLQuery3.sql - U...OPTERO\diego (53))* SQLQuery2.sql - U...OPTERO\diego (69))
        Luego hacemos la insersion de datos en la tabla FactClientesAtendidos
    □INSERT INTO FactClientesAtendidos (CustomerID, EmployeeID, TotalOrders, LastOrderDate)
         c.CustomerID,
         e.EmployeeID,
         COUNT(o.OrderID) AS TotalOrders,
         MAX(o.OrderDate) AS LastOrderDate
     FROM InstNwnd.dbo.Customers c
     JOIN InstNwnd.dbo.Orders o ON c.CustomerID = o.CustomerID
     JOIN InstNwnd.dbo.Employees e ON o.EmployeeID = e.EmployeeID
     GROUP BY c CustomerID, e EmployeeID;
109 % 🔻
 Messages
   (464 rows affected)
   Completion time: 2024-11-29T20:23:06.5507899-04:00
INSERT INTO FactClientesAtendidos (CustomerID, EmployeeID, TotalOrders,
LastOrderDate)
SELECT
    c.CustomerID,
    e.EmployeeID,
    COUNT(o.OrderID) AS TotalOrders,
    MAX(o.OrderDate) AS LastOrderDate
FROM InstNwnd.dbo.Customers c
JOIN InstNwnd.dbo.Orders o ON c.CustomerID = o.CustomerID
JOIN InstNwnd.dbo.Employees e ON o.EmployeeID = e.EmployeeID
GROUP BY c.CustomerID, e.EmployeeID;
```

5 - Cargando FactOrderDetails al DataWarehouse

```
SQLQuery5.sql-U...OPTERO\diego (67))* + X SQLQuery4.sql-U...OPTERO\diego (63))* SQLQuery3.sq
-- Por ultimo hacemos la insersion de datos en la tabla FactOrderDetails
                                                                          SQLQuery3.sql - U...OPTERO\diego (53))*
    ☐INSERT INTO FactOrderDetails (OrderID, ProductID, UnitPrice, Quantity, Discount)
          od.OrderID,
          od.ProductID,
          od.UnitPrice,
          od.Quantity,
          od.Discount
     FROM InstNwnd.dbo.[Order Details] od;

■ Messages

    (2155 rows affected)
   Completion time: 2024-11-29T20:25:44.0970881-04:00
INSERT INTO FactOrderDetails (OrderID, ProductID, UnitPrice, Quantity, Discount)
SELECT
     od.OrderID,
     od.ProductID,
     od.UnitPrice,
     od.Quantity,
     od.Discount
FROM InstNwnd.dbo.[Order Details] od;
G0
```

Evidencia y resultados de los datos cargados

SELECT * FROM FactOrders;

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SQLQ			actOrders		eryo.sqi - u.
09 %		1110111	400014015	,1	
ш	Results 💅	Messages			
	OrderID	CustomerID	EmployeeID	OrderDate	ShipperID
1	10248	VINET	5	1996-07-04	3
2	10249	TOMSP	6	1996-07-05	1
3	10250	HANAR	4	1996-07-08	2
4	10251	VICTE	3	1996-07-08	1
5	10252	SUPRD	4	1996-07-09	2
6	10253	HANAR	3	1996-07-10	2
7	10254	CHOPS	5	1996-07-11	2
8	10255	RICSU	9	1996-07-12	3
9	10256	WELLI	3	1996-07-15	2
10	10257	HILAA	4	1996-07-16	3
11	10258	ERNSH	1	1996-07-17	1
12	10259	CENTC	4	1996-07-18	3
13	10260	OTTIK	4	1996-07-19	1
14	10261	QUEDE	4	1996-07-19	2
15	10262	RATTC	8	1996-07-22	3
16	10263	ERNSH	9	1996-07-23	3
17	10264	FOLKO	6	1996-07-24	3
18	10265	BLONP	2	1996-07-25	1
19	10266	WARTH	3	1996-07-26	3
20	10267	FRANK	4	1996-07-29	1

SELECT * FROM FactClientesAtendidos;

SQLQuery9.sql - UOPTERO\diego (78))* SQLQuery8.sql - UOPTERO\diego (77))* 😕 🗙										
	SELECT * FROM FactClientesAtendidos;									
109 % •										
Ⅲ F	Results 🗐 M	essages								
	CustomerID	EmployeeID	TotalOrders	LastOrderDate						
1	ALFKI	1	2	1998-03-16						
2	ANTON	1	1	1997-09-22						
3	AROUT	1	3	1997-11-17						
4	BERGS	1	4	1997-11-07						
5	BONAP	1	3	1998-01-12						
6	воттм	1	2	1998-04-16						
7	BSBEV	1	1	1998-04-14						
8	CHOPS	1	1	1997-11-19						
9	COMMI	1	1	1998-03-23						
10	DRACD	1	2	1998-05-04						
11	DUMON	1	1	1996-09-20						
12	EASTC	1	2	1997-01-01						
13	ERNSH	1	5	1998-03-23						
14	FOLIG	1	1	1997-12-22						
15	FOLKO	1	1	1998-02-23						
16	FRANK	1	5	1998-04-09						
17	FRANR	1	1	1997-09-17						
18	FRANS	1	1	1997-10-20						
19	FURIB	1	2	1997-09-10						
20	GALED	1	1	1998-03-05						

SELECT * FROM FactOrderDetails;

SQLQuery7.sql - UOPTERO\diego (58))* + × SQLQuery5.sql - UOPTERO\diego (67))*										
SELECT * FROM FactOrderDetails;										
109 % -										
⊞ Results 📲 Messages										
	OrderID	ProductID	UnitPrice	Quantity	Discount					
1	10248	11	14.00	12	0					
2	10248	42	9.80	10	0					
3	10248	72	34.80	5	0					
4	10249	14	18.60	9	0					
5	10249	51	42.40	40	0					
6	10250	41	7.70	10	0					
7	10250	51	42.40	35	0.150000005960464					
8	10250	65	16.80	15	0.150000005960464					
9	10251	22	16.80	6	0.0500000007450581					
10	10251	57	15.60	15	0.0500000007450581					
11	10251	65	16.80	20	0					
12	10252	20	64.80	40	0.0500000007450581					
13	10252	33	2.00	25	0.0500000007450581					
14	10252	60	27.20	40	0					
15	10253	31	10.00	20	0					
16	10253	39	14.40	42	0					
17	10253	49	16.00	40	0					
18	10254	24	3.60	15	0.150000005960464					
19	10254	55	19.20	21	0.150000005960464					
20	10254	74	8.00	21	0					