

DWBI Assignment

IT21007538 – P.W.Maddumage

Data Science Specialization - Weekday batch

Step 1

SQLQuery2.sql - LAP01.WorldShopper (LAP01\DELL (61)) - Microsoft SQL Server Management Studio

Object Explorer: LAP01 (SQL Server 16.0.1000.6 - LAP01\DELL)

Query:

```
select *
from Categories
select *
from CustomerCustomerDemo
select *
from CustomerDemographics
select *
from Customers
select *
from Employees
select *
from EmployeeTerritories
select *
from OrderDetails
```

CategoryID	CategoryName	Description	Picture
1	Beverages	Soft drinks, coffees, teas, beers, and ales	0x151C2F00020000000000E0014002100FFFFFFF4269746...
2	Condiments	Sweet and savory sauces, relishes, spreads, and...	0x151C2F00020000000000E0014002100FFFFFFF4269746...
3	Confections	Desserts, candies, and sweet breads	0x151C2F00020000000000E0014002100FFFFFFF4269746...
4	Dairy Products	Cheeses	0x151C2F00020000000000E0014002100FFFFFFF4269746...
5	Grains/Cereals	Breads, crackers, pasta, and cereal	0x151C2F00020000000000E0014002100FFFFFFF4269746...
6	Meat/Poultry	Prepared meats	0x151C2F00020000000000E0014002100FFFFFFF4269746...
7	Produce	Dried fruit and bean curd	0x151C2F00020000000000E0014002100FFFFFFF4269746...
8	Seafood	Seaweed and fish	0x151C2F00020000000000E0014002100FFFFFFF4269746...

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShopper 00:00:00 8 rows

SQLQuery2.sql - LAP01.WorldShopper (LAP01\DELL (61)) - Microsoft SQL Server Management Studio

Object Explorer: LAP01 (SQL Server 16.0.1000.6 - LAP01\DELL)

Query:

```
select *
from CustomerCustomerDemo
select *
from CustomerDemographics
select *
from Customers
select *
from Employees
select *
from EmployeeTerritories
select *
from OrderDetails
```

CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone
1	ALFKI	Alfreda Futterkiste	Sales Representative	Oberstr. 57	Berlin	NULL	12209	Germany	(030) 0074321
2	ANATR	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	NULL	05021	Mexico	(5) 955-4729
3	ANTON	Antonio Moreno	Owner	Mataderos 2312	México D.F.	NULL	05023	Mexico	(5) 955-3932
4	AROUT	Arnaud Dubois	Sales Representative	120 rue de la Paix	Paris	NULL	75001	France	(1) 47 53 77 89
5	BERGS	Berglunds snabbköp	Order Administrator	Bergsgatan 8	Luleå	NULL	S-901 22	Sweden	(021) 23 45 67
6	BOLID	Bauer Schenk	Sales Representative	Friedenstr. 57	Mannheim	NULL	68306	Germany	(0621) 08460
7	BONAP	Bonaparte	Marketing Manager	24 place Kléber	Strasbourg	NULL	67000	France	(88) 60 15 31
8	BOLID	Bonaparte	Marketing Manager	24 place Kléber	Strasbourg	NULL	67000	France	(88) 60 15 31

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShopper 00:00:00 91 rows

SQLQuery2.sql - LAP01.WorldShopper (LAP01\DELL (61)) - Microsoft SQL Server Management Studio

Object Explorer: LAP01 (SQL Server 16.0.1000.6 - LAP01\DELL)

Query:

```
select *
from CustomerDemographics
select *
from Customers
select *
from Employees
select *
from EmployeeTerritories
select *
from OrderDetails
select *
from Order
```

EmployeeID	LastName	FirstName	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region
1	Devolio	Nancy	Sales Representative	Ms.	1948-12-08 00:00:00.000	1992-05-01 00:00:00.000	507 - 20th Ave. E. Apt. 2A	Seattle	WA
2	Fuller	Andrew	Vice President, Sales	Dr.	1952-02-19 00:00:00.000	1992-08-14 00:00:00.000	908 W. Capital Way	Tacoma	WA
3	Levenberg	Janet	Sales Representative	Ms.	1963-08-30 00:00:00.000	1992-04-01 00:00:00.000	722 Moss Bay Blvd.	Kirkland	WA
4	Peacock	Margaret	Sales Representative	Mrs.	1937-09-19 00:00:00.000	1993-05-03 00:00:00.000	4110 Old Redmond Rd.	Redmond	WA
5	Buchanan	Steven	Sales Manager	Mr.	1955-03-04 00:00:00.000	1993-10-17 00:00:00.000	14 Garrett Hill	London	NU

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShopper 00:00:00 58 rows

SQLQuery2.sql - LA...r (LAP01\DELL (61)) X WorldShipper Sampl... (LAP01\DELL (58))

```

select *
from Employees
select *
from EmployeeTerritories
select *
from [Order Details]
select *
from Orders
select *
from Products
select *
from Region

```

100 %

Results Messages

OrderID	ProductID	UnitPrice	Quantity	Discount
1	10248	11	14.00	12
2	10248	42	9.80	10
3	10248	72	34.80	5
4	10249	14	18.60	9

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity
25	10272	RATTIC	6	1996-08-02 00:00:00.000	1996-08-30 00:00:00.000	1996-08-06 00:00:00.000	2	98.03	Rattlesnake Canyon G...	2817 Milton Dr.
26	10273	QUICK	3	1996-08-05 00:00:00.000	1996-09-02 00:00:00.000	1996-08-12 00:00:00.000	3	76.07	QUICK-Stop	Tauchentraße 10
27	10274	VINET	6	1996-08-06 00:00:00.000	1996-09-03 00:00:00.000	1996-08-16 00:00:00.000	1	6.01	Vins et alcools Chevalier	59 rue de l'Abbaye
28	10275	MAGAA	1	1996-08-07 00:00:00.000	1996-09-04 00:00:00.000	1996-08-09 00:00:00.000	1	26.93	Magazzini Alimentari Ri...	Via Ludovico il Moro
29	10276	TORTU	8	1996-08-08 00:00:00.000	1996-08-22 00:00:00.000	1996-08-14 00:00:00.000	3	13.84	Tortuga Restaurante	Avda. Azteca 123

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShipper 00:00:00 2,985 rows

SQLQuery2.sql - LA...r (LAP01\DELL (61)) X WorldShipper Sampl... (LAP01\DELL (58))

```

select *
from [Order Details]
select *
from Orders
select *
from Products
select *
from Region
select *
from Shippers
select *
from Suppliers

```

100 %

Results Messages

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	18.00	39	0	10	0
2	Chang	1	1	24 - 12 oz bottles	19.00	17	40	25	0
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10.00	13	70	25	0
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.00	53	0	0	0
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35	0	0	0	1
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.00	120	0	25	0

RegionID	RegionDescription
1	Eastern
2	Western
3	Northern
4	Occidental

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShipper 00:00:00 81 rows

SQLQuery2.sql - LA...r (LAP01\DELL (61)) X WorldShipper Sampl... (LAP01\DELL (58))

```

select *
from Products
select *
from Region
select *
from Shippers
select *
from Suppliers
select *
from Territories

```

100 %

Results Messages

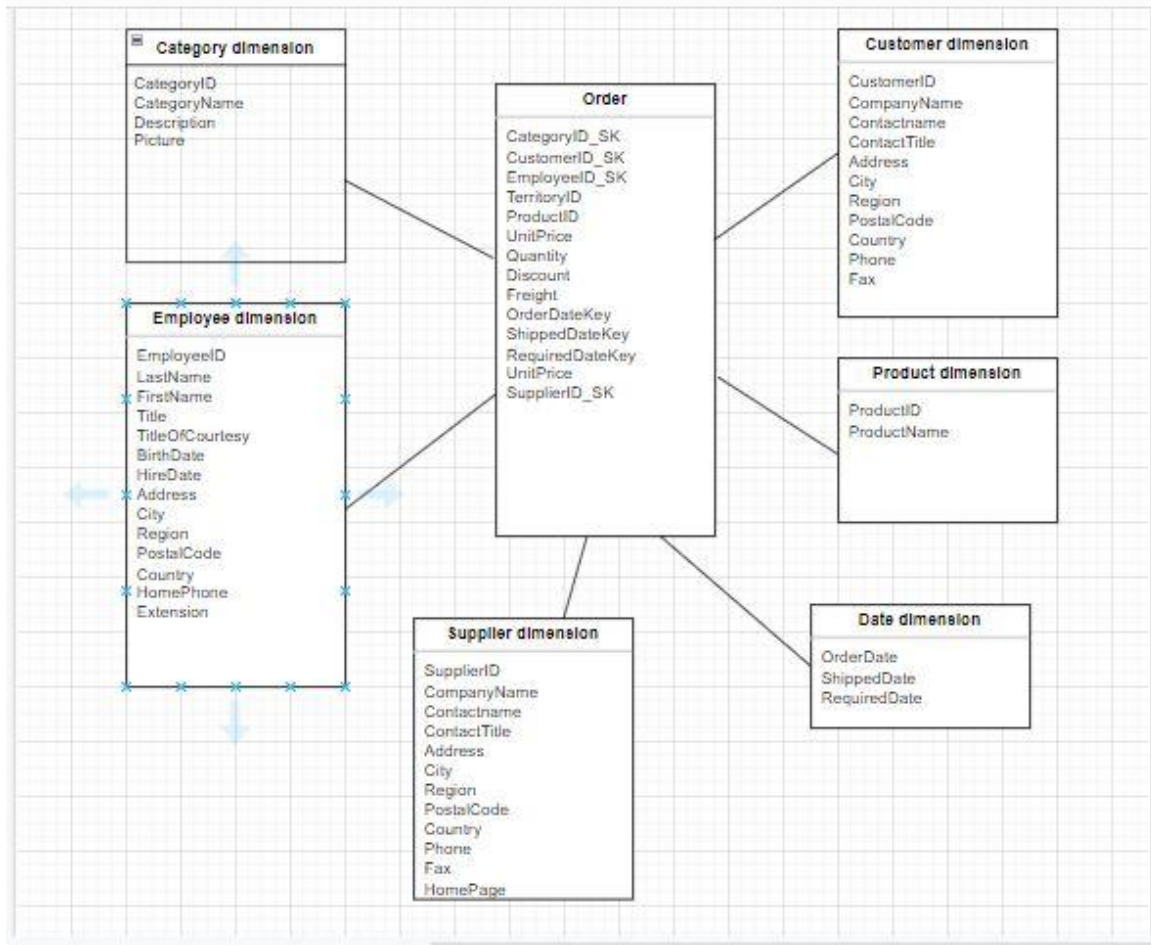
ShipperID	CompanyName	Phone
1	Speedy Express	(503) 555-9831
2	United Package	(503) 555-3199
3	Federal Shipping	(503) 555-9931

SupplierID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax	HomePage
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.	London	NULL	EC1 4SD	UK	(171) 555-2222	NULL	NI
2	New Orleans Cajun Delights	Shelley Burke	Order Administrator	P.O. Box 78934	New Orleans	LA	70117	USA	(100) 555-4822	NULL	#
3	Grandma's Boysenberry Spread	Robert K. Voon II	Sales Representative	2980 Lakeview Dr.	San Francisco	CA	94134	USA	(415) 555-4722	(415) 555-6222	>

TerritoryID	TerritoryDescription	RegionID
1	01581 Western	1
2	01730 Bedford	1

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (61) WorldShipper 00:00:00 85 rows

Step 2



Step 3

Microsoft SQL Server Management Studio interface showing the execution of a query to create a dimension table and the resulting data.

Query Text:

```

BEGIN TRY
    DROP TABLE [dbo].[DimDate]
END TRY

BEGIN CATCH
    /*No Action*/
END CATCH

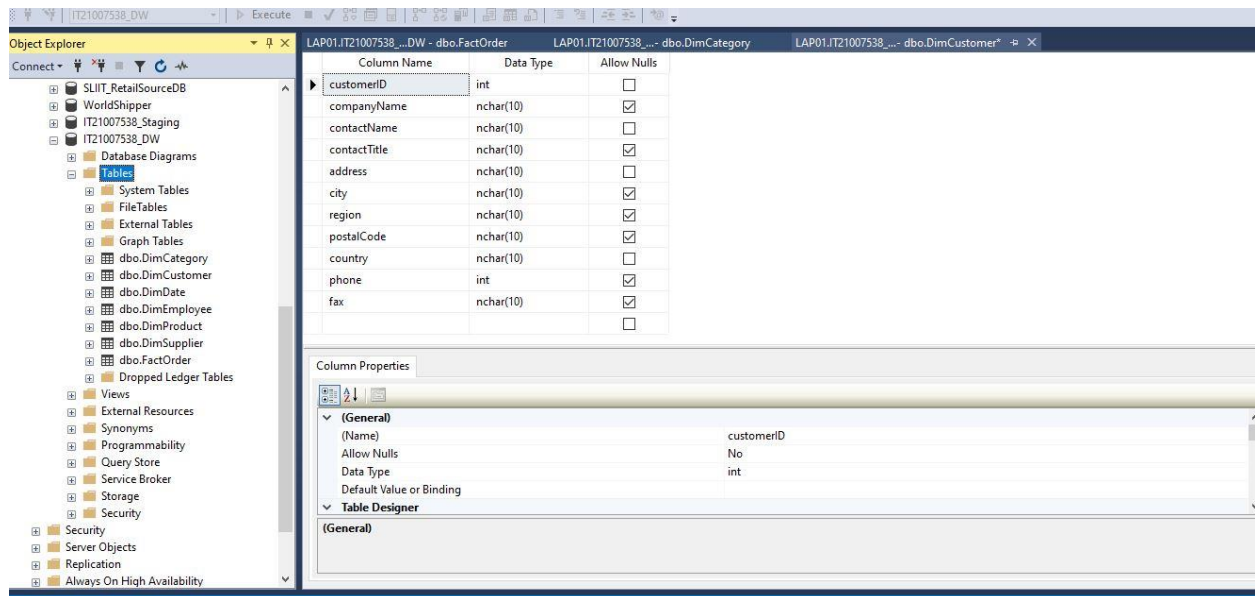
/*****
CREATE TABLE [dbo].[DimDate]
(
    [DateKey] INT primary key,
    [Date] DATETIME,
    [FullDateUK] CHAR(10), -- Date in dd-MM-yyyy format
    [FullDateUSA] CHAR(10), -- Date in MM-dd-yyyy format
    [DayOfMonth] VARCHAR(2), -- Field will hold day number of Month
    [DaySuffix] VARCHAR(4), -- Annlv suffix as 1st, 2nd, 3rd etc
)
*****/

```

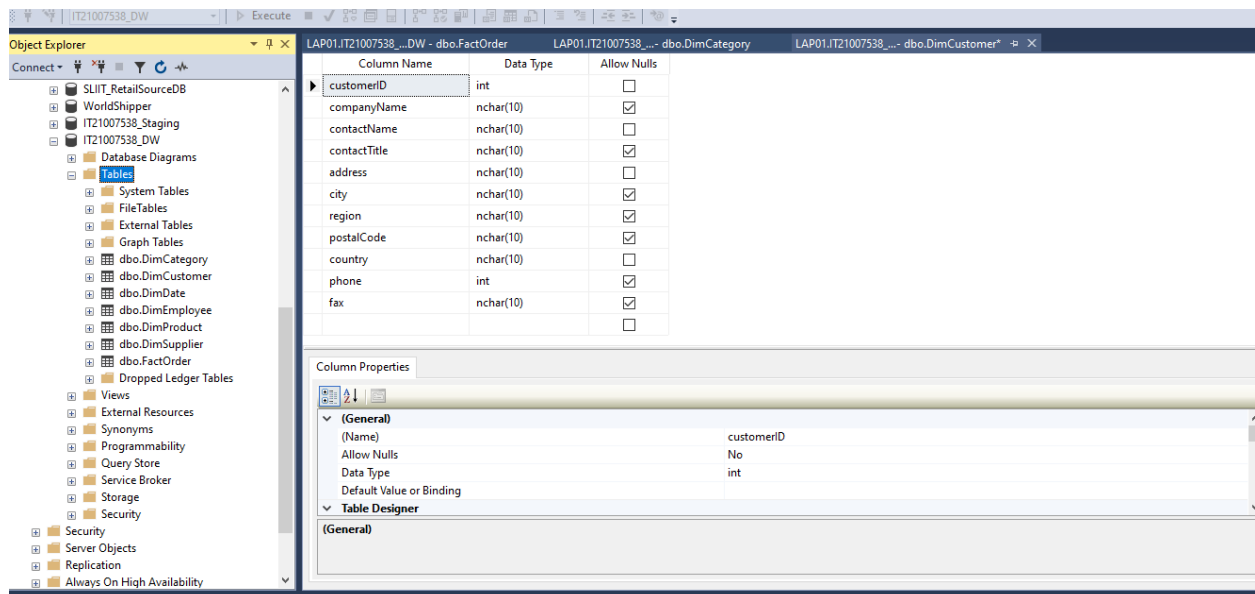
Results:

DateKey	Date	FullDateUK	FullDateUSA	DayOfMonth	DaySuffix	DayName	DayOfWeekUSA	DayOfWeekUK	DayOfWeekInMonth	DayOfWeekInYear
1	1990-01-01 00:00:00.000	01/01/1990	01/01/1990	1	1st	Monday	2	1	1	1
2	1990-01-02 00:00:00.000	02/01/1990	01/02/1990	2	2nd	Tuesday	3	2	1	1
3	1990-01-03 00:00:00.000	03/01/1990	01/03/1990	3	3rd	Wednesday	4	3	1	1
4	1990-01-04 00:00:00.000	04/01/1990	01/04/1990	4	4th	Thursday	5	4	1	1
5	1990-01-05 00:00:00.000	05/01/1990	01/05/1990	5	5th	Friday	6	5	1	1
6	1990-01-06 00:00:00.000	06/01/1990	01/06/1990	6	6th	Saturday	7	6	1	1
7	1990-01-07 00:00:00.000	07/01/1990	01/07/1990	7	7th	Sunday	1	7	1	1
8	1990-01-08 00:00:00.000	08/01/1990	01/08/1990	8	8th	Monday	2	1	2	2
9	1990-01-09 00:00:00.000	09/01/1990	01/09/1990	9	9th	Tuesday	3	2	2	2
10	1990-01-10 00:00:00.000	10/01/1990	01/10/1990	10	10th	Wednesday	4	3	2	2

Query executed successfully. LAP01 (16.0 RTM) LAP01\DELL (54) IT21007538_DW 00:00:30 39,812 rows



Created all the dimensions and fact table in IT21007538_DW database



Create Table

```
CREATE TABLE [StgCustomer] (  
  [CustomerID] int,  
  [LastName] nvarchar(50),  
  [Gender] nvarchar(1),  
  [PhoneNumber] nvarchar(25),  
  [PhoneNumberType] nvarchar(50),  
  [EmailAddress] nvarchar(50),  
  [EmailPromotion] int,  
  [Title] nvarchar(8),  
  [FirstName] nvarchar(50),  
  [MiddleName] nvarchar(50)  
)
```