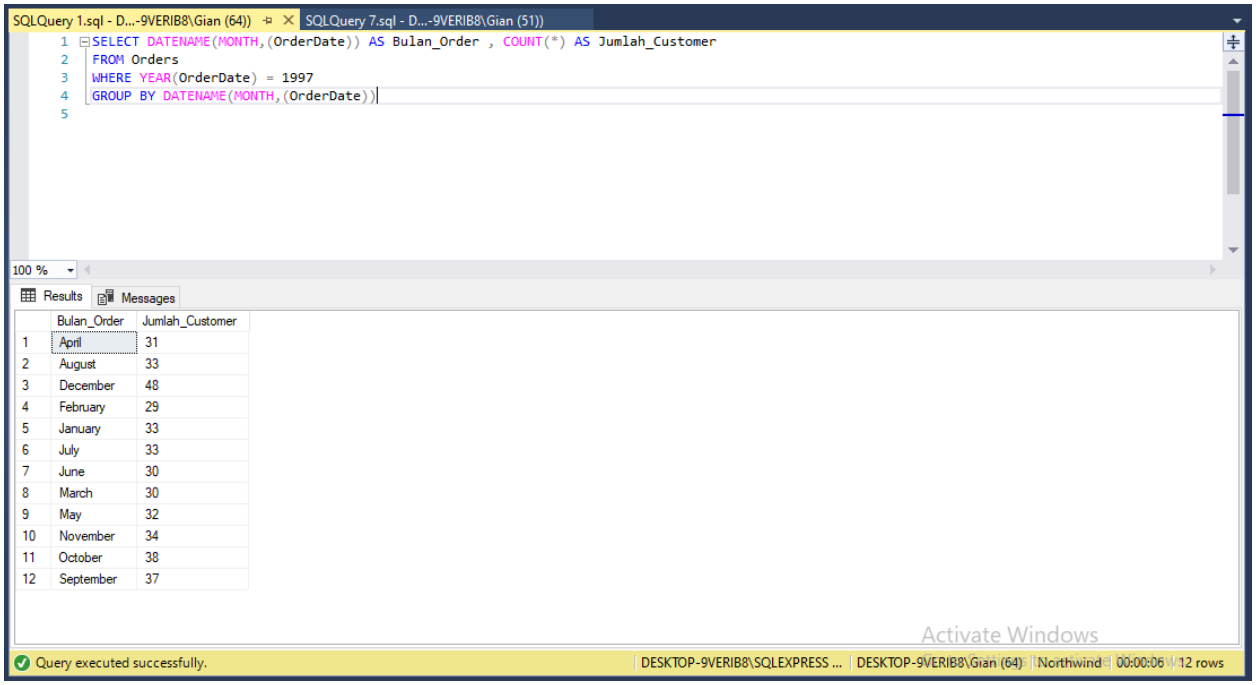
Bagian 2a Transform : Intermediate Queries

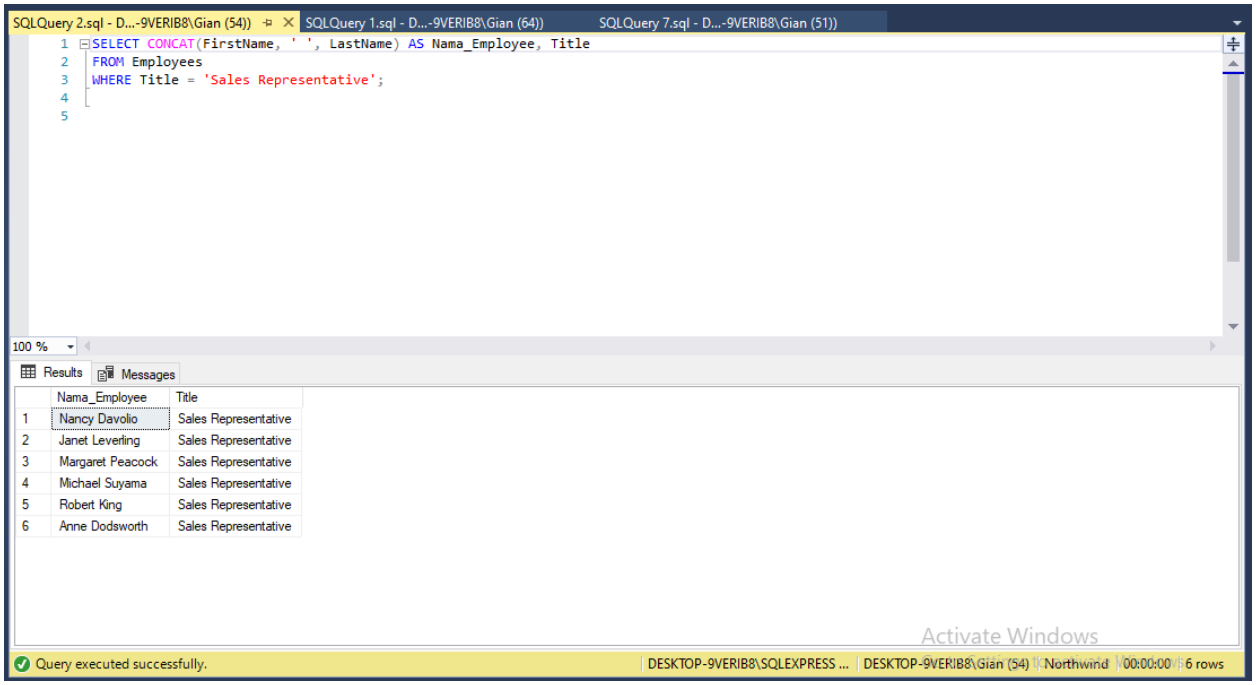
1. Tulis query untuk mendapatkan jumlah customer tiap bulan yang melakukan order pada tahun 1997.



```
SELECT DATENAME(MONTH,(OrderDate)) AS Bulan_Order , COUNT(*) AS Jumlah_Customer
FROM Orders
WHERE YEAR(OrderDate) = 1997
GROUP BY DATENAME(MONTH,(OrderDate))
```

	Bulan_Order	Jumlah_Customer
1	April	31
2	August	33
3	December	48
4	February	29
5	January	33
6	July	33
7	June	30
8	March	30
9	May	32
10	November	34
11	October	38
12	September	37

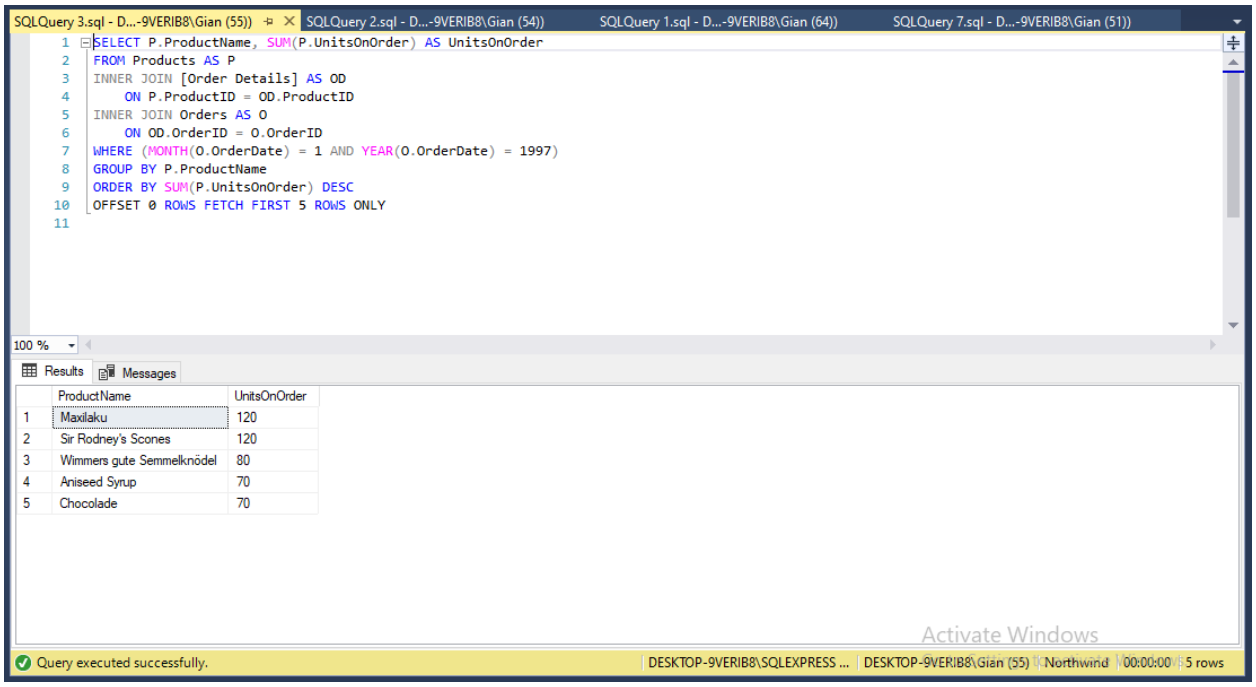
2. Tulis query untuk mendapatkan nama employee yang termasuk Sales Representative.



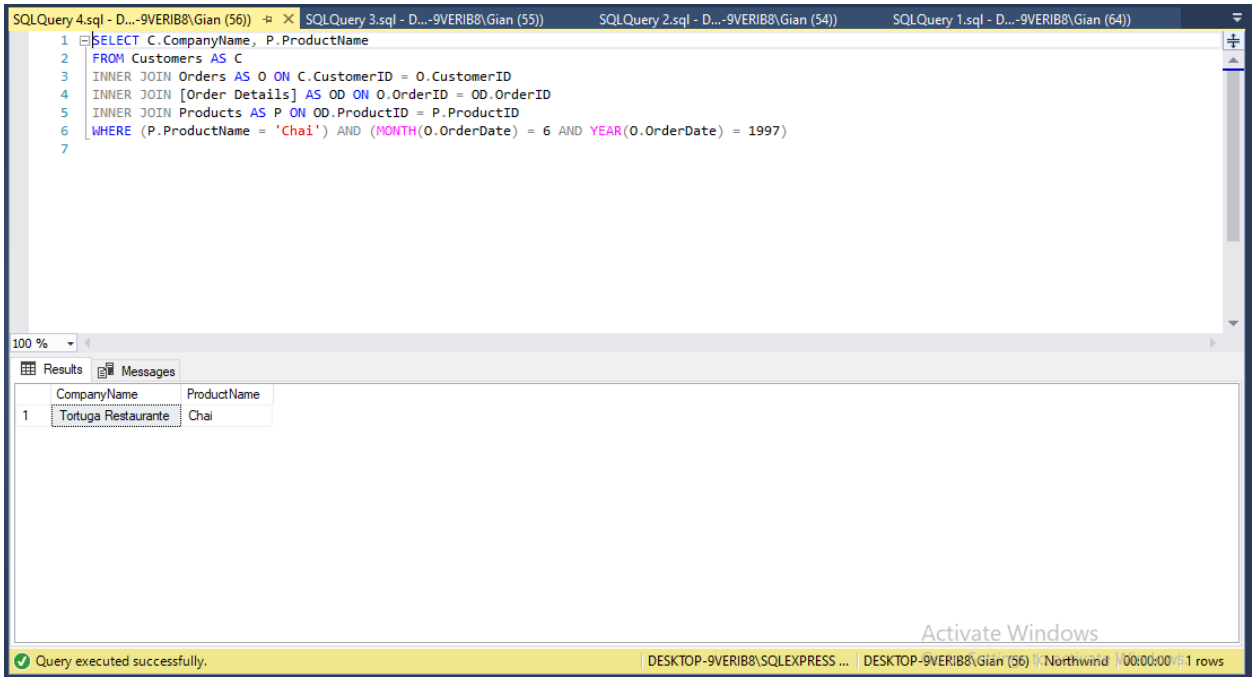
```
SELECT CONCAT(FirstName, ' ', LastName) AS Nama_Employee, Title
FROM Employees
WHERE Title = 'Sales Representative';
```

	Nama_Employee	Title
1	Nancy Davolio	Sales Representative
2	Janet Leverling	Sales Representative
3	Margaret Peacock	Sales Representative
4	Michael Suyama	Sales Representative
5	Robert King	Sales Representative
6	Anne Dodsworth	Sales Representative

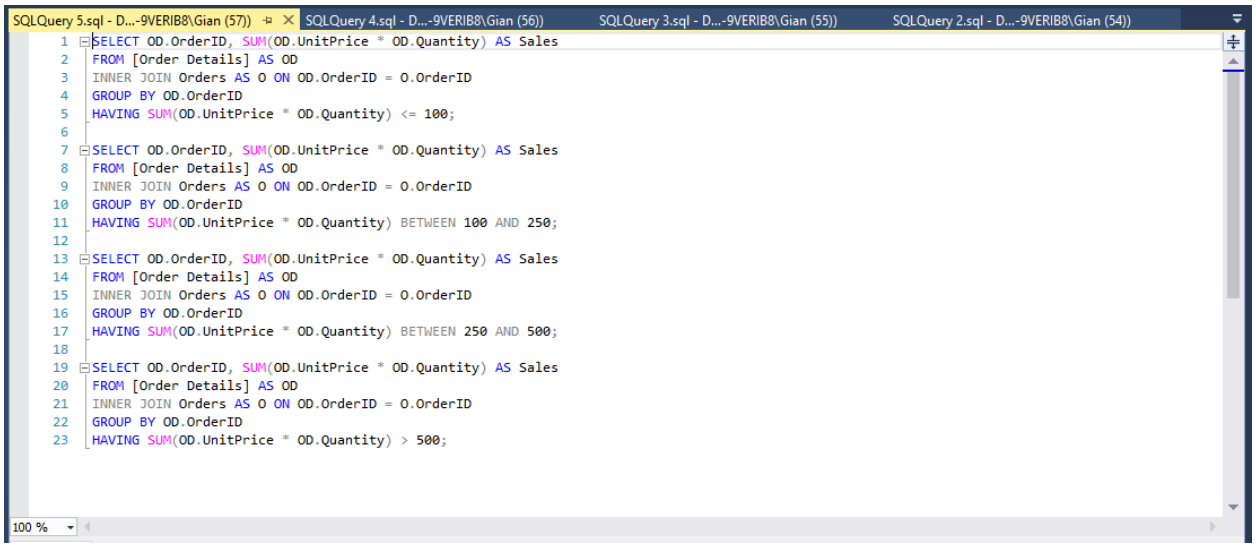
3. Tulis query untuk mendapatkan top 5 nama produk yang quantitynya paling banyak diorder pada bulan Januari 1997.

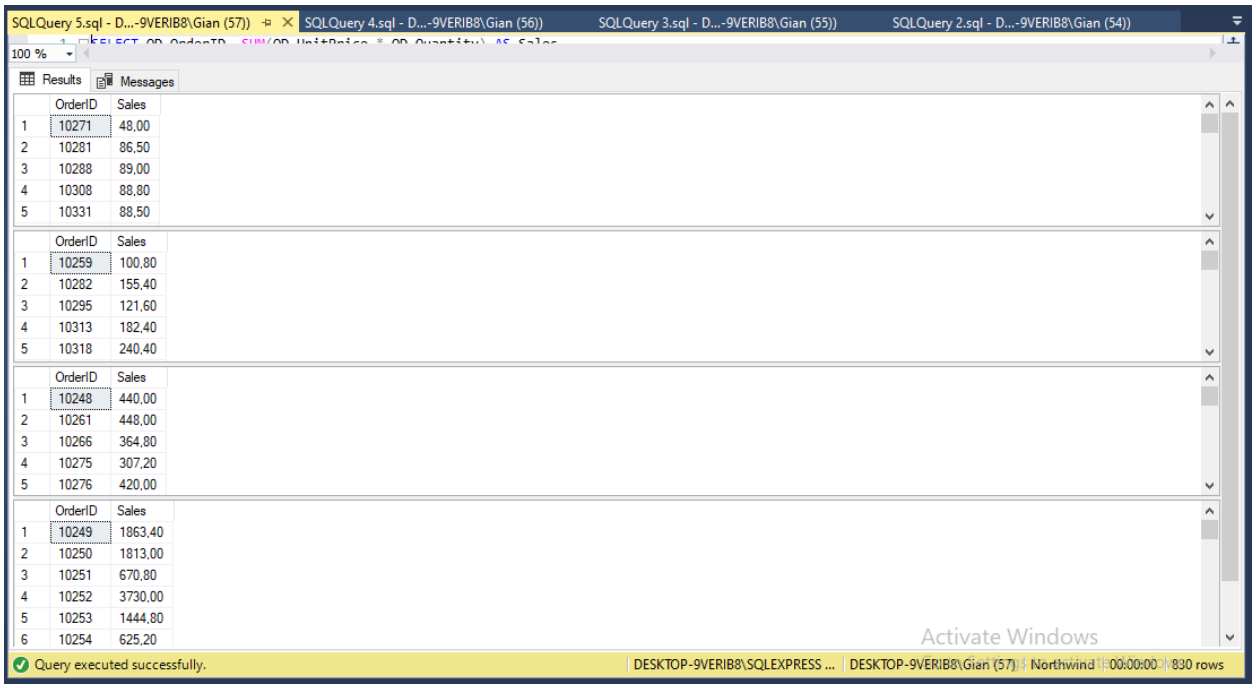


4. Tulis query untuk mendapatkan nama company yang melakukan order Chai pada bulan Juni 1997.

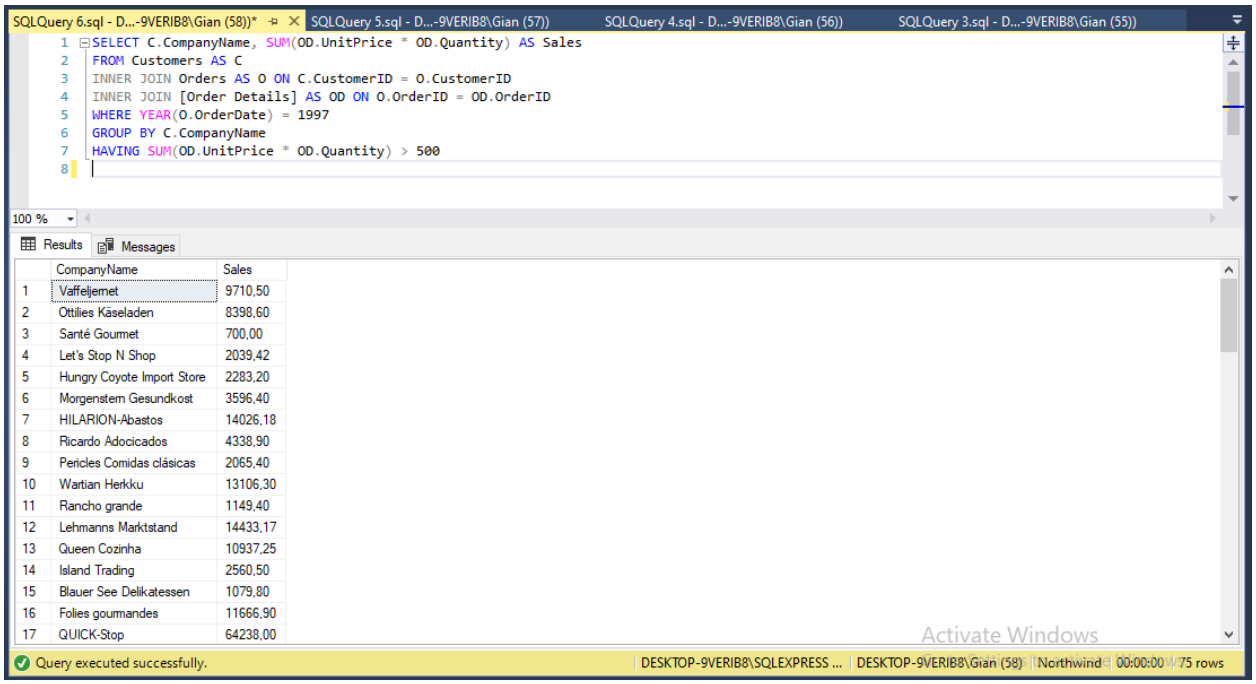


5. Tulis query untuk mendapatkan jumlah OrderID yang pernah melakukan sales (unit_price dikali quantity) <=100, 100<x<=250, 250<x<=500, dan >500.





6. Tulis query untuk mendapatkan Company name yang melakukan sales di atas 500 pada tahun 1997.

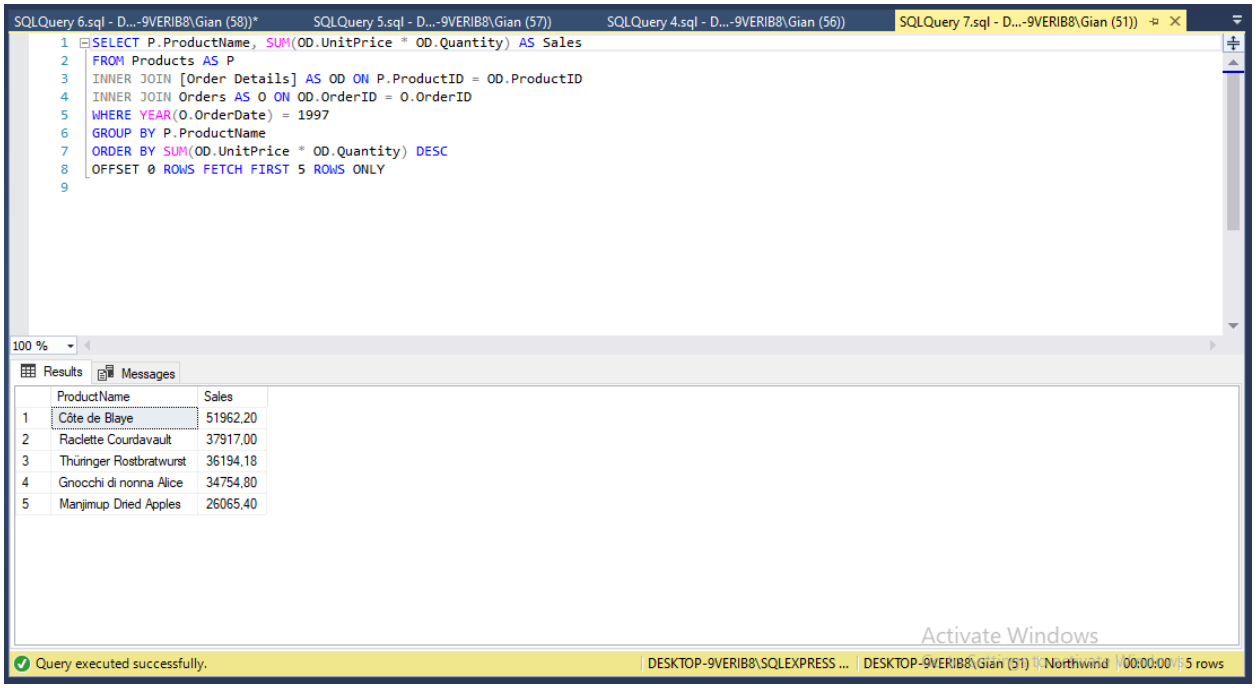


```
SELECT C.CompanyName, SUM(OD.UnitPrice * OD.Quantity) AS Sales
FROM Customers AS C
INNER JOIN Orders AS O ON C.CustomerID = O.CustomerID
INNER JOIN [Order Details] AS OD ON O.OrderID = OD.OrderID
WHERE YEAR(O.OrderDate) = 1997
GROUP BY C.CompanyName
HAVING SUM(OD.UnitPrice * OD.Quantity) > 500
```

	CompanyName	Sales
1	Vaffeljernet	9710,50
2	Ottilies Käseladen	8398,60
3	Santé Gourmet	700,00
4	Let's Stop N Shop	2039,42
5	Hungry Coyote Import Store	2283,20
6	Morgenstern Gesundkost	3596,40
7	HILARION-Abastos	14026,18
8	Ricardo Adocicados	4338,90
9	Pericles Comidas clásicas	2065,40
10	Wartian Herkku	13106,30
11	Rancho grande	1149,40
12	Lehmanns Marktstand	14433,17
13	Queen Cozinha	10937,25
14	Island Trading	2560,50
15	Blauer See Delikatessen	1079,80
16	Folies gourmandes	11666,90
17	QUICK-Stop	64238,00

Query executed successfully. DESKTOP-9VERIB8\SQLEXPRESS ... DESKTOP-9VERIB8\Gian (58) Northwind 00:00:00 75 rows

7. Tulis query untuk mendapatkan nama produk yang merupakan Top 5 sales tertinggi tiap bulan di tahun 1997.

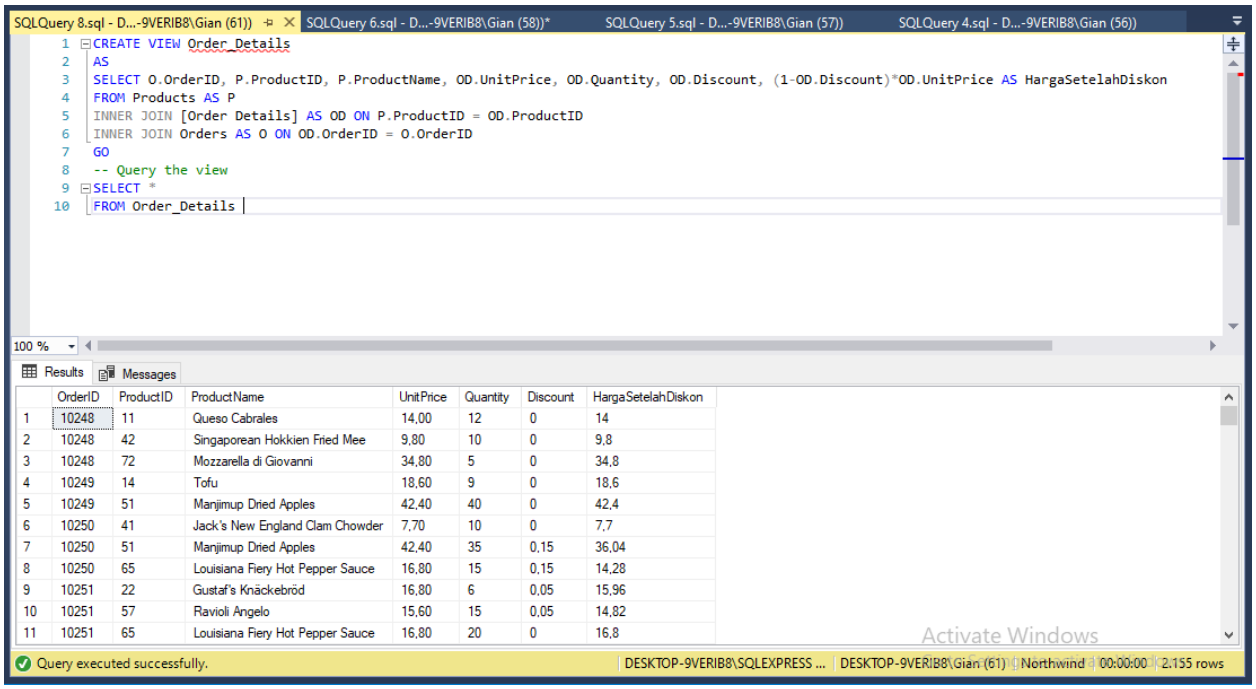


```
SELECT P.ProductName, SUM(OD.UnitPrice * OD.Quantity) AS Sales
FROM Products AS P
INNER JOIN [Order Details] AS OD ON P.ProductID = OD.ProductID
INNER JOIN Orders AS O ON OD.OrderID = O.OrderID
WHERE YEAR(O.OrderDate) = 1997
GROUP BY P.ProductName
ORDER BY SUM(OD.UnitPrice * OD.Quantity) DESC
OFFSET 0 ROWS FETCH FIRST 5 ROWS ONLY
```

	ProductName	Sales
1	Côte de Blaye	51962,20
2	Raclette Courdavault	37917,00
3	Thüringer Rostbratwurst	36194,18
4	Gnocchi di nonna Alice	34754,80
5	Manjimup Dried Apples	26065,40

Query executed successfully. DESKTOP-9VERIB8\SQLEXPRESS ... DESKTOP-9VERIB8\Gian (51) Northwind 00:00:00 5 rows

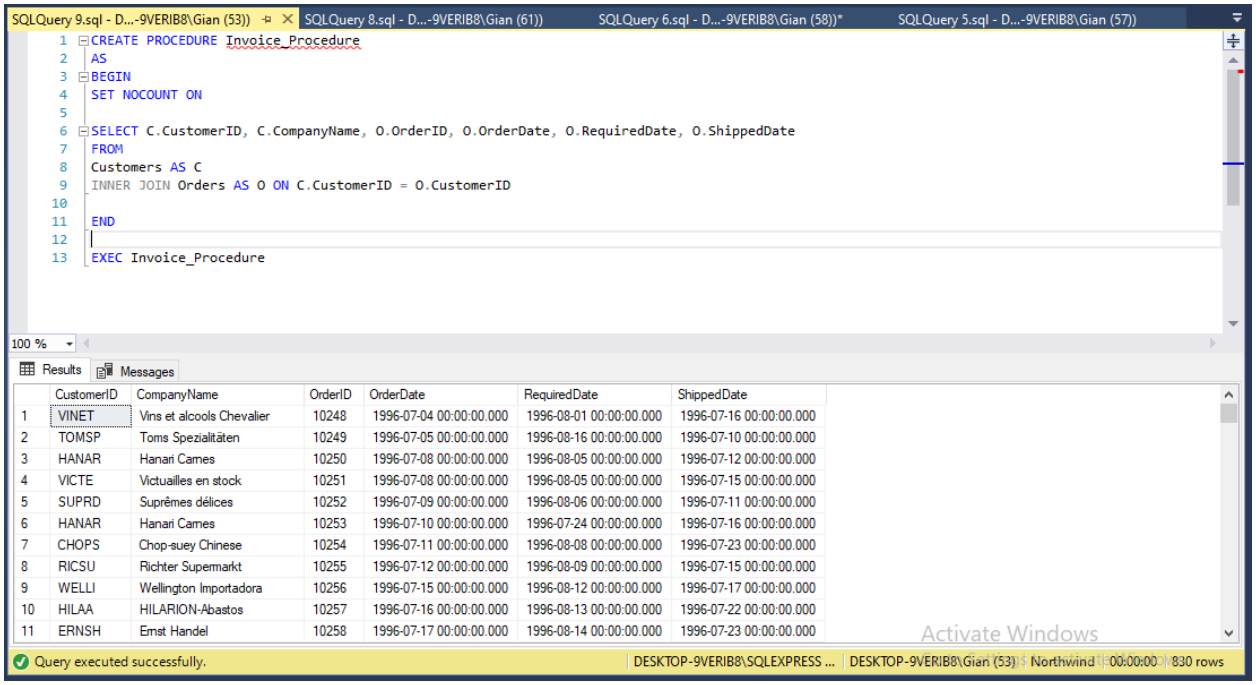
8. Buatlah view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon.



```
CREATE VIEW Order_Details
AS
SELECT O.OrderID, P.ProductID, P.ProductName, OD.UnitPrice, OD.Quantity, OD.Discount, (1-OD.Discount)*OD.UnitPrice AS HargaSetelahDiskon
FROM Products AS P
INNER JOIN [Order Details] AS OD ON P.ProductID = OD.ProductID
INNER JOIN Orders AS O ON OD.OrderID = O.OrderID
GO
-- Query the view
SELECT *
FROM Order_Details
```

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	HargaSetelahDiskon
1	10248	11	Queso Cabrales	14,00	12	0	14
2	10248	42	Singaporean Hokkien Fried Mee	9,80	10	0	9,8
3	10248	72	Mozzarella di Giovanni	34,80	5	0	34,8
4	10249	14	Tofu	18,60	9	0	18,6
5	10249	51	Manjimup Dried Apples	42,40	40	0	42,4
6	10250	41	Jack's New England Clam Chowder	7,70	10	0	7,7
7	10250	51	Manjimup Dried Apples	42,40	35	0,15	36,04
8	10250	65	Louisiana Fiery Hot Pepper Sauce	16,80	15	0,15	14,28
9	10251	22	Gustaf's Knäckebröd	16,80	6	0,05	15,96
10	10251	57	Ravioli Angelo	15,60	15	0,05	14,82
11	10251	65	Louisiana Fiery Hot Pepper Sauce	16,80	20	0	16,8

9. Buatlah procedure Invoice untuk memanggil CustomerID, CustomerName, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu.



```
CREATE PROCEDURE Invoice_Procedure
AS
BEGIN
SET NOCOUNT ON

SELECT C.CustomerID, C.CompanyName, O.OrderID, O.OrderDate, O.RequiredDate, O.ShippedDate
FROM
Customers AS C
INNER JOIN Orders AS O ON C.CustomerID = O.CustomerID

END

EXEC Invoice_Procedure
```

	CustomerID	CompanyName	OrderID	OrderDate	RequiredDate	ShippedDate
1	VINET	Vins et alcools Chevalier	10248	1996-07-04 00:00:00.000	1996-08-01 00:00:00.000	1996-07-16 00:00:00.000
2	TOMSP	Toms Spezialitäten	10249	1996-07-05 00:00:00.000	1996-08-16 00:00:00.000	1996-07-10 00:00:00.000
3	HANAR	Hanari Carnes	10250	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-12 00:00:00.000
4	VICTE	Victuailles en stock	10251	1996-07-08 00:00:00.000	1996-08-05 00:00:00.000	1996-07-15 00:00:00.000
5	SUPRD	Suprêmes délices	10252	1996-07-09 00:00:00.000	1996-08-06 00:00:00.000	1996-07-11 00:00:00.000
6	HANAR	Hanari Carnes	10253	1996-07-10 00:00:00.000	1996-07-24 00:00:00.000	1996-07-16 00:00:00.000
7	CHOPS	Chop-suey Chinese	10254	1996-07-11 00:00:00.000	1996-08-08 00:00:00.000	1996-07-23 00:00:00.000
8	RICSU	Richter Supermarkt	10255	1996-07-12 00:00:00.000	1996-08-09 00:00:00.000	1996-07-15 00:00:00.000
9	WELLI	Wellington Importadora	10256	1996-07-15 00:00:00.000	1996-08-12 00:00:00.000	1996-07-17 00:00:00.000
10	HILAA	HILARION-Abastos	10257	1996-07-16 00:00:00.000	1996-08-13 00:00:00.000	1996-07-22 00:00:00.000
11	ERNSH	Ernst Handel	10258	1996-07-17 00:00:00.000	1996-08-14 00:00:00.000	1996-07-23 00:00:00.000