

Mini Project DE

Intermediate Query

Nama : Nashrullah

Kelompok : 5a

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

Query:

```
--1. Tulis query untuk mendapatkan jumlah customer tiap bulan yang melakukan order pada tahun 1997.  
SELECT DATENAME(MM, o.OrderDate) AS Bulan , COUNT(DISTINCT c.CustomerID) AS [Jumlah Customer]  
FROM Customers c  
JOIN Orders o ON c.CustomerID = o.CustomerID  
WHERE YEAR(o.OrderDate) = 1997  
GROUP BY DATENAME(MM, o.OrderDate)
```

Result:

Results Messages		
	Bulan	Jumlah Customer
1	April	27
2	August	30
3	December	37
4	February	21
5	January	27
6	July	25
7	June	25
8	March	24
9	May	26
10	November	27
11	October	28
12	September	27

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

Query:

```
--2. Tulis query untuk mendapatkan nama employee yang termasuk Sales Representative.
SELECT FirstName + ' ' + LastName AS Nama, Title
FROM Employees
WHERE Title = 'Sales Representative'
```

Result:

Results Messages		
	Nama	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.

Query:

```
--3. Tulis query untuk mendapatkan top 5 nama produk yang quantitynya paling banyak diorder pada bulan Januari 1997.  
SELECT TOP 5 p.ProductName, SUM(od.Quantity) AS [Jumlah Quantity]  
FROM Products p  
JOIN [Order Details] od ON p.ProductID = od.ProductID  
JOIN Orders o ON od.OrderID = o.OrderID  
WHERE DATENAME(MM, o.OrderDate) = 'January' AND YEAR(o.OrderDate) = 1997  
GROUP BY p.ProductName  
ORDER BY [Jumlah Quantity] DESC
```

Result:

Results		Messages
	ProductName	Jumlah Quantity
1	Geitost	119
2	Raclette Courdavault	115
3	Gnocchi di nonna Alice	105
4	Vegie-spread	100
5	Côte de Blaye	99

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

Query:

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

```
SELECT c.CompanyName, p.ProductName, o.OrderDate
FROM Products p
JOIN [Order Details] od ON p.ProductID = od.ProductID
JOIN Orders o ON od.OrderID = o.OrderID
JOIN Customers c ON o.CustomerID = c.CustomerID
WHERE p.ProductName = 'Chai'
      AND DATENAME(MM, o.OrderDate) = 'June'
      AND YEAR(o.OrderDate) = 1997
```

Result:

Results		Messages	
	CompanyName	ProductName	OrderDate
1	Tortuga Restaurante	Chai	1997-06-23 00:00:00.000

5. Tulis query untuk mendapatkan jumlah OrderID yang pernah melakukan pembelian (unit_price dikali quantity) ≤ 100 , $100 < x \leq 250$, $250 < x \leq 500$, dan > 500 .

Query:

--5. Tulis query untuk mendapatkan jumlah OrderID yang pernah melakukan pembelian (unit_price dikali quantity) ≤ 100 , $100 < x \leq 250$, $250 < x \leq 500$, dan > 500 .

```
SELECT Pembelian, COUNT(Pembelian) AS [Jumlah Pembelian]
FROM (SELECT
      CASE
        WHEN SUM(od.UnitPrice * od.Quantity) <= 100 THEN '<=100'
        WHEN SUM(od.UnitPrice * od.Quantity) <= 250 THEN '100<x<=250'
        WHEN SUM(od.UnitPrice * od.Quantity) <= 500 THEN '250<x<=500'
        ELSE '>500'
      END AS Pembelian
FROM [Order Details] od
JOIN Orders o ON od.OrderID = o.OrderID
GROUP BY od.OrderID) a
GROUP BY Pembelian
```

Result:

Results		Messages
	Pembelian	Jumlah Pembelian
1	250<x<=500	118
2	100<x<=250	64
3	>500	611
4	<=100	37

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

Query:

```
--6. Tulis query untuk mendapatkan Company name pada tabel customer yang melakukan pembelian di atas 500 pada tahun 1997.
SELECT CompanyName, Pembelian
FROM (SELECT c.CompanyName, SUM(od.UnitPrice * od.Quantity) AS Pembelian
      FROM [Order Details] od
      JOIN Orders o ON od.OrderID = o.OrderID
      JOIN Customers c ON o.CustomerID = c.CustomerID
      WHERE YEAR(o.OrderDate) = 1997
      GROUP BY c.CompanyName) a
WHERE Pembelian > 500
```

Result:

Results		Messages
	CompanyName	Pembelian
1	Vaffeljernet	9710,50
2	Ottiles 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

SQL Server Enterprise Edition (16.0 RTM) | MSI\MSI (65) | Northwind | 00:00:00 | 75 rows

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

Query:

```
--7. Tulis query untuk mendapatkan nama produk yang merupakan Top 5 sales tertinggi tiap bulan di tahun 1997. Sales itu hasil penjualan yg unit price kali quantity
SELECT a.ProductName, a.Bulan, a.Pembelian
FROM (SELECT p.ProductName, DATENAME(MM, o.OrderDate) AS Bulan, SUM(od.UnitPrice * od.Quantity) AS Pembelian,
      RANK() OVER(PARTITION BY DATENAME(MM, o.OrderDate) ORDER BY SUM(od.UnitPrice * od.Quantity) DESC) AS RankPembelianMonthly
FROM [Order Details] od
JOIN Orders o ON od.OrderID = o.OrderID
JOIN Products p ON od.ProductID = p.ProductID
WHERE YEAR(o.OrderDate) = 1997
GROUP BY DATENAME(MM, o.OrderDate), p.ProductName) a
WHERE RankPembelianMonthly <= 5
ORDER BY Bulan, RankPembelianMonthly
```

Result:

Results		Messages	
	ProductName	Bulan	Pembelian
1	Gnocchi di nonna Alice	April	5517,60
2	Schoggi Schokolade	April	5268,00
3	Thüringer Rostbratwurst	April	4456,44
4	Côte de Blaye	April	3952,50
5	Camembert Pierrot	April	3604,00
6	Carnarvon Tigers	August	5125,00
7	Tarte au sucre	August	4683,50
8	Thüringer Rostbratwurst	August	3218,54
9	Gnocchi di nonna Alice	August	3040,00
10	Mozzarella di Giovanni	August	2610,00
11	Manjimup Dried Apples	December	9964,00
12	Thüringer Rostbratwurst	December	8912,88
13	Alice Mutton	December	4212,00
14	Côte de Blaye	December	3952,50

SQL Server (16.0 RTM) | MSI\MSI (65) | Northwind | 00:00:00 | 60 rows

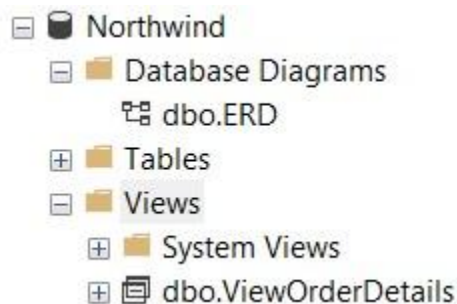
8. Buatlah view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon.

Query:

```
--8. Buatlah view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga Setelah Diskon.
CREATE VIEW ViewOrderDetails
AS
SELECT od.OrderID, od.ProductID, p.ProductName, od.UnitPrice, od.Quantity, od.Discount,
       (od.UnitPrice * od.Quantity * (1-od.Discount)) AS [Harga setelah diskon]
FROM [Order Details] od
JOIN Products p ON od.ProductID = p.ProductID

SELECT * From ViewOrderDetails
```

Result:



	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	Harga setelah diskon
1	10248	11	Queso Cabrales	14,00	12	0	168
2	10248	42	Singaporean Hokkien Fried Mee	9,80	10	0	98
3	10248	72	Mozzarella di Giovanni	34,80	5	0	174
4	10249	14	Tofu	18,60	9	0	167,4
5	10249	51	Manjimup Dried Apples	42,40	40	0	1696
6	10250	41	Jack's New England Clam Chowder	7,70	10	0	77
7	10250	51	Manjimup Dried Apples	42,40	35	0,15	1261,4
8	10250	65	Louisiana Fiery Hot Pepper Sauce	16,80	15	0,15	214,2
9	10251	22	Gustaf's Knäckebröd	16,80	6	0,05	95,76
10	10251	57	Ravioli Angelo	15,60	15	0,05	222,3
11	10251	65	Louisiana Fiery Hot Pepper Sauce	16,80	20	0	336
12	10252	20	Sir Rodney's Marmalade	64,80	40	0,05	2462,4
13	10252	33	Geitost	2,00	25	0,05	47,5
14	10252	60	Camembert Pierrot	27,20	40	0	1088

Query executed successfully. | MSI\SQL EXPRESS (16.0 RTM) | MSI\MSI (65) | Northwind | 00:00:01 | 2.155 rows

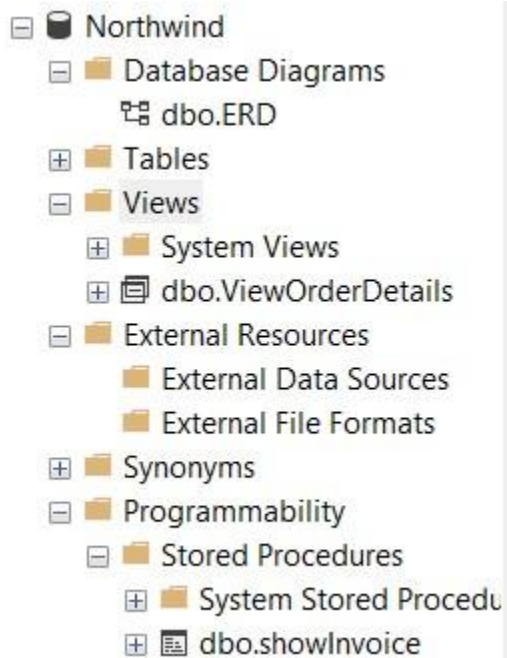
9. Buatlah procedure Invoice untuk memanggil CustomerID, CustomerName/company name, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu.

Query:

```
--9. Buatlah procedure Invoice untuk memanggil CustomerID, CustomerName/company name, OrderID, OrderDate, RequiredDate,
-- ShippedDate jika terdapat inputan CustomerID tertentu.
CREATE PROCEDURE showInvoice
    @IDCustomer NVARCHAR(5)
AS
SELECT c.CustomerID, COALESCE(c.CompanyName, c.ContactName) AS CustomerName, o.OrderID, o.OrderDate, o.RequiredDate, o.ShippedDate
FROM Customers c
JOIN Orders o ON c.CustomerID = o.CustomerID
WHERE c.CustomerID = @IDCustomer

exec showInvoice 'CACTU'
```


Result:



[-] Northwind
[-] Database Diagrams
[-] dbo.ERD
[+] Tables
[-] Views
[-] System Views
[-] dbo.ViewOrderDetails
[-] External Resources
[-] External Data Sources
[-] External File Formats
[+] Synonyms
[-] Programmability
[-] Stored Procedures
[-] System Stored Procedures
[-] dbo.showInvoice

Results		Messages				
	CustomerID	CustomerName	OrderID	OrderDate	RequiredDate	ShippedDate
1	CACTU	Cactus Comidas para llevar	10521	1997-04-29 00:00:00.000	1997-05-27 00:00:00.000	1997-05-02 00:00:00.000
2	CACTU	Cactus Comidas para llevar	10782	1997-12-17 00:00:00.000	1998-01-14 00:00:00.000	1997-12-22 00:00:00.000
3	CACTU	Cactus Comidas para llevar	10819	1998-01-07 00:00:00.000	1998-02-04 00:00:00.000	1998-01-16 00:00:00.000
4	CACTU	Cactus Comidas para llevar	10881	1998-02-11 00:00:00.000	1998-03-11 00:00:00.000	1998-02-18 00:00:00.000
5	CACTU	Cactus Comidas para llevar	10937	1998-03-10 00:00:00.000	1998-03-24 00:00:00.000	1998-03-13 00:00:00.000
6	CACTU	Cactus Comidas para llevar	11054	1998-04-28 00:00:00.000	1998-05-26 00:00:00.000	NULL