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

 $\begin{tabular}{ll} {\sf SELECT\ MONTH}(OrderDate) \ as \ Bulan, \ {\sf COUNT}(DISTINCT\ CustomerID) \ as \ Jumlah\_CustomerFROM\ Orders \end{tabular}$ 

WHERE YEAR(OrderDate) = 1997
GROUP BY MONTH(OrderDate)



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

SELECT FirstName, LastName

FROM Employees

WHERE Title='Sales Representative'

	FirstName	LastName
1	Nancy	Davolio
2	Janet	Leverling
3	Margaret	Peacock
4	Michael	Suyama
5	Robert	King
6	Anne	Dodswo

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

SELECT TOP 5 Products.ProductName, SUM([Order Details].Quantity) as Quantity FROM Products

INNER JOIN [Order Details] ON Products.ProductID = [Order Details].ProductID

INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID

WHERE MONTH(Orders.OrderDate) = 1 AND YEAR(Orders.OrderDate) = 1997

**GROUP BY Products.ProductName** 

ORDER BY Quantity DESC

	Product Name	Quantity
1	Geitost	119
2	Raclette Courdavault	115
3	Gnocchi di nonna	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.

SELECT DISTINCT Suppliers.CompanyName

FROM Suppliers

INNER JOIN Products ON Suppliers.SupplierID = Products.SupplierID

```
INNER JOIN [Order Details] ON Products.ProductID = [Order Details].ProductID
INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID
WHERE Products.ProductName = 'Chai' AND MONTH(Orders.OrderDate) = 6 AND
YEAR(Orders.OrderDate) = 1997
   CompanyName
  Exotic Liquids
--5.Tulis query untuk mendapatkan jumlah OrderID yang pernah melakukan pembelian
--(unit_price dikali quantity) <=100, 100<x<=250, 250<x<=500, dan >500.
SELECT
SUM(CASE WHEN UnitPrice*Quantity <= 100 THEN 1 ELSE 0 END) as '<=100',
SUM(CASE WHEN UnitPrice*Quantity > 100 AND UnitPrice*Quantity <= 250 THEN 1 ELSE 0 END)
as '100<x<=250',
SUM(CASE WHEN UnitPrice*Quantity > 250 AND UnitPrice*Quantity <= 500 THEN 1 ELSE 0 END)
as '250<x<=500',
SUM(CASE WHEN UnitPrice*Quantity > 500 THEN 1 ELSE 0 END) as '>500'
FROM [Order Details]
    <=100 100<x<=250 250<x<=500
                          >500
   351
                  532
                           800
--6.Tulis query untuk mendapatkan Company name pada tabel customer yang melakukan
pembelian di atas 500 pada tahun 1997.
SELECT DISTINCT CompanyName
FROM Customers
INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID
INNER JOIN [Order Details] ON Orders.OrderID = [Order Details].OrderID
WHERE YEAR(Orders.OrderDate) = 1997 AND ([Order Details].Quantity * [Order
Details].UnitPrice) > 500
```





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--7. Tulis query untuk mendapatkan nama produk yang merupakan Top 5 sales tertinggi tiap
bulan di tahun 1997.
SELECT Bulan, ProductName, TotalSales
SELECT MONTH(Orders.OrderDate) as Bulan,
ProductName,
SUM([Order Details].UnitPrice*[Order Details].Quantity) as TotalSales,
ROW_NUMBER() OVER (PARTITION BY MONTH(Orders.OrderDate)
ORDER BY SUM([Order Details].UnitPrice*[Order Details].Quantity) DESC) as RN
FROM [Order Details]
INNER JOIN Products ON [Order Details].ProductID = Products.ProductID
INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID
WHERE YEAR(Orders.OrderDate) = 1997
GROUP BY MONTH(Orders.OrderDate), ProductName
) as sub
WHERE RN <= 5
ORDER BY Bulan, TotalSales DESC
```

```
1 Côte de Blaye
                                        20869,20
               Raclette Courdavault
                                        5060.00
                Vegie-spread
               Gnocchi di nonna Alice
                                        3192 00
                Alice Mutton
               Pâté chinois
                                        3456.00
               Sirop d'érable
               Gnocchi di nonna Alice
                                        2523 20
               Rössle Sauerkraut
                                        2074.80
               Raclette Courdavault
12
               Côte de Blave
               Thüringer Rostbratwurst 1782,00
15
16
17
18
19
20
               Gnocchi di nonna Alice
               Thüringer Rostbratwurst 4456,44
               Côte de Blaye
                                        3952.50
               Camembert Pierrot
                                        3604,00
21
22
               Côte de Blaye
                                        8959 00
               Ipoh Coffee
23
24
               Manjimup Dried Apples 2862,00
```

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

CREATE VIEW OrderDetailsView

AS

SELECT

[Order Details].OrderID,
[Order Details].ProductID,
Products.ProductName,
```

```
[Order Details].UnitPrice,
  [Order Details].Quantity,
  [Order Details].Discount,
  ([Order Details].UnitPrice * [Order Details].Quantity * (1 - [Order Details].Discount)) as FinalPrice
FROM
       [Order Details]
       INNER JOIN Products ON [Order Details].ProductID = Products.ProductID
```

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	FinalPrice
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 Rodnev's Marmalade	64.80	40	0.05	2462.4

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

```
CREATE PROCEDURE Invoice (@CustomerID INT)

AS

BEGIN

SELECT

Customers.CustomerID,
Customers.OrderID,
Orders.OrderID,
Orders.OrderDate,
Orders.RequiredDate,
Orders.ShippedDate
FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
WHERE Orders.CustomerID = @CustomerID

END

EXEC Invoice @CustomerID = 'value'
```

