INTERMEDIATE QUERY Mini Project DE - Nurul Anggraeni

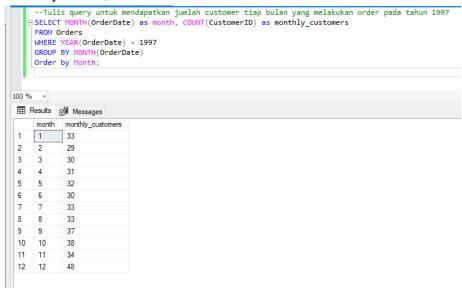
1. Tulis query untuk mendapatkan jumlah customer tiap bulan yang melakukan order pada tahun 1997

SELECT MONTH(OrderDate) as month, COUNT(CustomerID) as monthly_customers FROM Orders

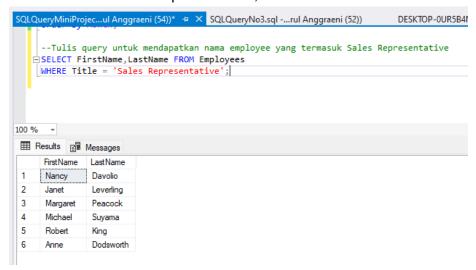
WHERE YEAR(OrderDate) = 1997

GROUP BY MONTH(OrderDate)

Order by Month;



 Tulis query untuk mendapatkan nama employee yang termasuk Sales Representative SELECT FirstName,LastName FROM Employees WHERE Title = 'Sales Representative';



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 TotalQuantity, o.OrderDate FROM Products p

INNER JOIN [Order Details] od

ON p.ProductID = od.ProductID

INNER JOIN Orders o

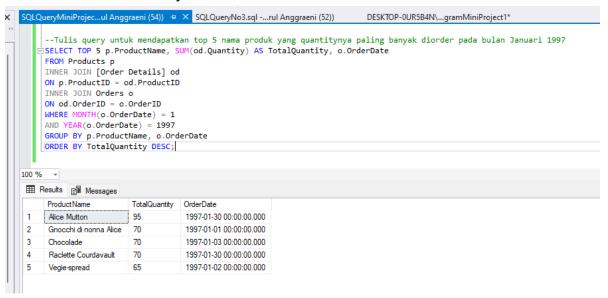
ON od.OrderID = o.OrderID

WHERE MONTH(o.OrderDate) = 1

AND YEAR(o.OrderDate) = 1997

GROUP BY p.ProductName, o.OrderDate

ORDER BY TotalQuantity DESC;



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

SELECT c.CompanyName

FROM Customers c

INNER JOIN Orders o

ON o.CustomerID = c.CustomerID

INNER JOIN [Order Details] od

ON od.OrderID = o.OrderID

INNER JOIN Products p

ON p.ProductID = od.ProductID

WHERE p.ProductName = 'Chai'

AND MONTH(o.OrderDate) = 6 AND YEAR(o.OrderDate) = 1997;

```
SQLQueryMiniProjec...ul Anggraeni (54))* 😕 🗶 SQLQueryNo3.sql -...rul Anggraeni (52))
                                                                            DESKTOP-0UR5B4N\...gramMiniProje
     --4. Tulis query untuk mendapatkan nama company yang melakukan order Chai pada bulan Juni 1997
   SELECT c.CompanyName
     FROM Customers c
     INNER JOIN Orders o
     ON o.CustomerID = c.CustomerID
     INNER JOIN [Order Details] od
     ON od.OrderID = o.OrderID
     INNER JOIN Products p
     ON p.ProductID = od.ProductID
     WHERE p.ProductName = 'Chai'
     AND MONTH(o.OrderDate) = 6
    AND YEAR(o.OrderDate) = 1997;
100 %
 Results Messages
      CompanyName
     Tortuga Restaurante
```

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

```
ALTER TABLE [Order Details] ADD AmountRange VARCHAR(300);

UPDATE [Order Details]

SET AmountRange =

CASE

WHEN UnitPrice * Quantity <= 100 THEN '<=100'

WHEN UnitPrice * Quantity > 100 AND UnitPrice * Quantity <= 250 THEN '100<x<=250'

WHEN UnitPrice * Quantity > 250 AND UnitPrice * Quantity <= 500 THEN '250<x<=500'

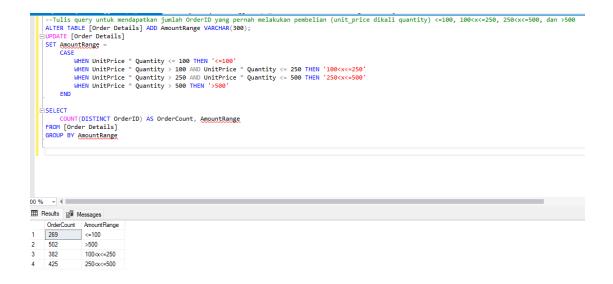
WHEN UnitPrice * Quantity > 500 THEN '>500'

END

SELECT

COUNT(DISTINCT OrderID) AS OrderCount, AmountRange FROM [Order Details]

GROUP BY AmountRange
```



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

SELECT c.CompanyName, SUM(od.UnitPrice * od.Quantity) AS totalorder

FROM Customers c

INNER JOIN Orders o

ON c.CustomerID = o.CustomerID

INNER JOIN [Order Details] od

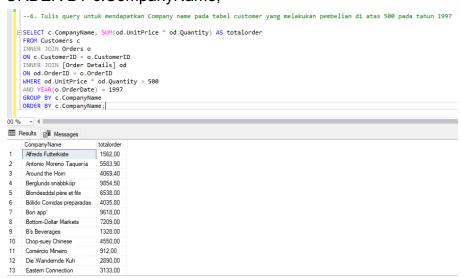
ON od.OrderID = o.OrderID

WHERE od.UnitPrice * od.Quantity > 500

AND YEAR(o.OrderDate) = 1997

GROUP BY c.CompanyName

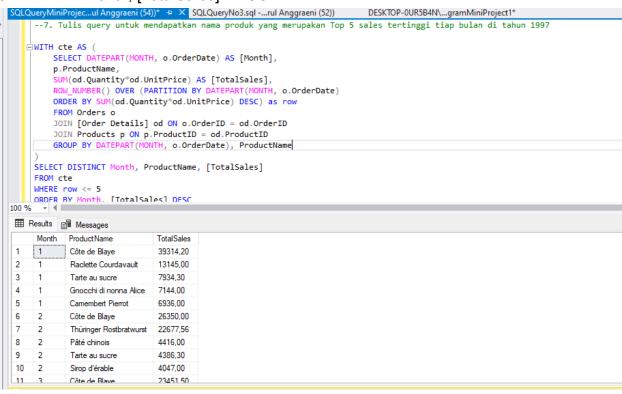
ORDER BY c.CompanyName;



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

```
WITH cte AS (

SELECT DATEPART(MONTH, o.OrderDate) AS [Month],
p.ProductName,
SUM(od.Quantity*od.UnitPrice) AS [TotalSales],
ROW_NUMBER() OVER (PARTITION BY DATEPART(MONTH, o.OrderDate)
ORDER BY SUM(od.Quantity*od.UnitPrice) DESC) as row
FROM Orders o
JOIN [Order Details] od ON o.OrderID = od.OrderID
JOIN Products p ON p.ProductID = od.ProductID
GROUP BY DATEPART(MONTH, o.OrderDate), ProductName
)
SELECT DISTINCT Month, ProductName, [TotalSales]
FROM cte
WHERE row <= 5
ORDER BY Month, [TotalSales] DESC
```

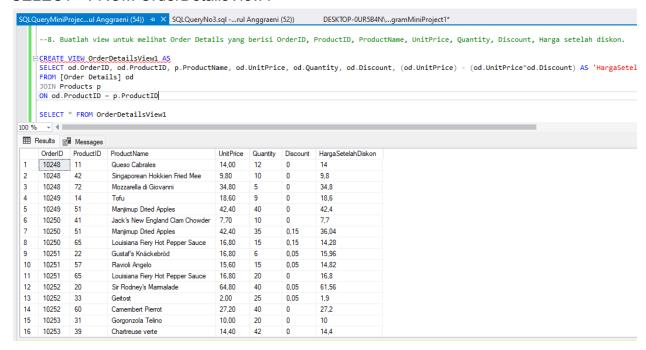


8. Buatlah view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon.

CREATE VIEW OrderDetailsView1 AS
SELECT od.OrderID, od.ProductID, p.ProductName, od.UnitPrice, od.Quantity,
od.Discount, (od.UnitPrice) - (od.UnitPrice*od.Discount) AS 'HargaSetelahDiskon'
FROM [Order Details] od
JOIN Products p
ON od.ProductID = p.ProductID

SELECT * FROM OrderDetailsView1

o.OrderID,o.OrderDate.



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

CREATE PROCEDURE GenerateInvoice8 (@CustomerID VARCHAR(5))
AS
BEGIN
SELECT
c.CustomerID,
c.CompanyName AS 'CustomerName',

o.RequiredDate,
o.ShippedDate
FROM Orders o
JOIN Customers c
ON o.CustomerID = c.CustomerID
WHERE c.CustomerID = @CustomerID

END

To input CustomerID (example):

EXEC GenerateInvoice8 VICTE

```
--9. Buatlah procedure Invoice untuk memanggil CustomerID, CustomerName/company name, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu
  CREATE PROCEDURE GenerateInvoice8 (@CustomerID VARCHAR(5))
  BEGIN
      SELECT
         c.CustomerID,
          c.CompanyName AS 'CustomerName',
o.OrderID,
         o.OrderDate
         o.RequiredDate,
o.ShippedDate
      FROM Orders o
      JOIN Customers c
ON o.CustomerID = c.CustomerID
      WHERE c.CustomerID = @CustomerID
   To input CustomerID (example):
  EXEC GenerateInvoice8 VICTE
) %
CustomerID CustomerName OrderID OrderDate
    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
                  Victuailles en stock 10334 1996-10-21 00:00:00.000 1996-11-18 00:00:00.000 1996-10-28 00:00:00.000
2
     VICTE
                                             1997-02-19 00:00:00:000 1997-03-19 00:00:00:000 1997-03-11 00:00:00:00
3
     VICTE
                  Victuailles en stock 10450
                                              1997-02-27 00:00:00.000 1997-03-27 00:00:00.000 1997-02-28 00:00:00.000
4
     VICTE
                  Victuailles en stock 10459
              Victuailles en stock 10478 1997-03-18 00:00:00:000 1997-04-01 00:00:00.000 1997-03-26 00:00:00:00.000
5
     VICTE
              Victuailles en stock 10546 1997-05-23 00:00:00.000 1997-06-20 00:00:00.000 1997-05-27 00:00:00.000
6
     VICTE
     VICTE
                 Victuailles en stock 10806 1997-12-31 00:00:00.000 1998-01-28 00:00:00.000 1998-01-05 00:00:00.000
8
    VICTE
                 Victuailles en stock 10814 1998-01-05 00:00:00.000 1998-02-02 00:00:00.000 1998-01-14 00:00:00.000
    VICTE
                 Victuailles en stock 10843 1998-01-21 00:00:00.000 1998-02-18 00:00:00.000 1998-01-26 00:00:00.000
9
10 VICTE
              Victuailles en stock 10850 1998-01-23 00:00:00.000 1998-03-06 00:00:00.000 1998-01-30 00:00:00.000
```