**Intermediate Queries**

**Asep Purnama**

**Q1.** Tulis query untuk mendapatkan jumlah customer tiap bulan yang melakukan order pada tahun 1997.

---Jumlah customer tiap bulan pada tahun 1997---

SELECT DATEPART(MONTH, OrderDate) AS 'Month', count(customerID) 'Number of Customer'

FROM Orders

WHERE OrderDate >= '1997-01-01' AND OrderDate <= '1997-12-31'

GROUP BY DATEPART(MONTH, OrderDate)

RESULT:

Chart

Description automatically generated with low confidence

**Q2**. Tulis query untuk mendapatkan nama employee yang termasuk Sales Representative.

---Employee who are sales representative---

SELECT CONCAT(FirstName, ' ', LastName) AS 'Employee Name', Title AS 'Title'

FROM Employees

WHERE Title = 'Sales Representative'

RESULT:



**Q3.** Tulis query untuk mendapatkan top 5 nama produk yang quantitynya paling banyak diorder pada bulan Januari 1997.

---Top 5 Ordered of Product Quantity in 1997---

SELECT TOP 5(p.ProductName) AS 'Product Name', d.Quantity AS 'Qunatity'

FROM Products p JOIN [Order Details] d

ON (p.ProductID = d.ProductID)

JOIN Orders o ON (d.OrderID = o.OrderID)

WHERE OrderDate >= '1997-01-01' AND OrderDate <= '1997-12-31'

ORDER BY d.Quantity DESC

RESULT:

Table

Description automatically generated

**Q4.** Tulis query untuk mendapatkan nama company yang melakukan order Chai pada bulan Juni 1997.

---Company Name which order Chai in 1997---

SELECT c.CompanyName, p.ProductName, o.OrderDate

FROM Customers c JOIN Orders o

ON (c.CustomerID = o.CustomerID) JOIN [Order Details] d

ON (o.OrderID = d.OrderID) JOIN Products p

ON (d.ProductID = p.ProductID)

WHERE p.ProductName = 'Chai' AND o.OrderDate >= '1997-01-01' AND o.OrderDate <= '1997-12-31'

RESULT:

Table

Description automatically generated

**Q5.** Tulis query untuk mendapatkan jumlah OrderID yang pernah melakukan sales (unit\_price dikali quantity) <=100, 100<x<=250, 250<x<=500, dan >500.

---OrderID with selected total price---

SELECT

COUNT(CASE WHEN (Quantity \* UnitPrice) <= 100 THEN OrderID ELSE NULL END) AS 'Sales <=100',

COUNT(CASE WHEN (Quantity \* UnitPrice) <100 AND (Quantity \* UnitPrice) <=250 THEN OrderID ELSE NULL END) AS '100<Sales<=250',

COUNT(CASE WHEN (Quantity \* UnitPrice) <250 AND (Quantity \* UnitPrice) <=050 THEN OrderID ELSE NULL END) AS '250<Sales<=500',

COUNT(CASE WHEN (Quantity \* UnitPrice) > 500 THEN OrderID ELSE NULL END) AS 'Sales >500'

FROM [Order Details]

RESULT:



**Q6.** Tulis query untuk mendapatkan Company name yang melakukan sales di atas 500 pada tahun 1997.

---Company Name which order >500 1997--

SELECT c.CompanyName AS 'Company Name', (d.UnitPrice \* d.Quantity) AS 'Total Sales', o.OrderDate AS 'Order Date'

FROM Orders o JOIN [Order Details] d

ON (o.OrderID = d.OrderID) JOIN Customers c

ON (o.CustomerID = c.CustomerID)

WHERE (d.UnitPrice \* d.Quantity) > 500 AND o.OrderDate >= '1997-01-01' AND o.OrderDate <= '1997-12-31'

RESULT:

Table

Description automatically generated

**Q7.** Tulis query untuk mendapatkan nama produk yang merupakan Top 5 sales tertinggi tiap bulan di tahun 1997.

---Top 5 Product with highest sales in 1997---

SELECT TOP 5

p.ProductName AS 'Product Name',

(d.UnitPrice \*(1-d.Discount)\* d.Quantity) AS 'Total Sales',

o.OrderDate AS 'Order Date'

FROM Products p JOIN [Order Details] d

ON (p.ProductID = d.ProductID) JOIN Orders o

ON (d.OrderID = o.OrderID)

WHERE o.OrderDate >= '1997-01-01' AND o.OrderDate <= '1997-12-31'

ORDER BY 'Total Sales' DESC

RESULT:

Table

Description automatically generated

**Q8.** Buatlah view untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon.

---View for Order Detail with total price after discount---

ALTER VIEW view\_orderdetails AS

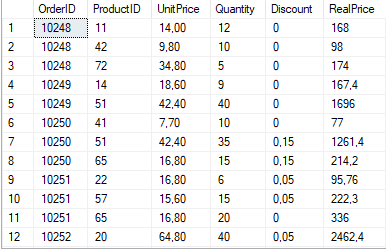
SELECT OrderID, ProductID, UnitPrice, Quantity, Discount, (UnitPrice \* Quantity - (UnitPrice \* Quantity \* Discount)) AS RealPrice

FROM [Order Details]

SELECT \*

FROM view\_orderdetails

RESULT:



**Q9.** Buatlah procedure Invoice untuk memanggil CustomerID, CustomerName, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu.

---Create Procedure Invoice---

CREATE PROCEDURE ProcedureInvoice

@CustomerID nvarchar(10)

AS

SELECT

c.CustomerID,

c.ContactName AS CustomerName,

o.OrderID,

o.OrderDate,

o.RequiredDate,

o.ShippedDate

FROM Customers c LEFT JOIN Orders o

ON (c.CustomerID = o.CustomerID)

WHERE c.CustomerID = @CustomerID

GO

EXECUTE ProcedureInvoice @CustomerID = 'ANATR';

GO

RESULT:

Text

Description automatically generated