

Mini Project DE Intermediate Queries

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

```
--No 1
select year(OrderDate) order_year,
       month(OrderDate) order_month,
       count(CustomerID) count_customer
from dbo.Orders
where year(OrderDate) = 1997
group by year(OrderDate) ,
         month(OrderDate)
;
```

100 %

Results Messages

	order_year	order_month	count_customer
1	1997	1	33
2	1997	2	29
3	1997	3	30
4	1997	4	31
5	1997	5	32
6	1997	6	30
7	1997	7	33
8	1997	8	33
9	1997	9	37
10	1997	10	38
11	1997	11	34
12	1997	12	48

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

```
--No 2
select concat(LastName, ', ', FirstName) employee_name
from dbo.Employees
where Title = 'Sales Representative'
```

100 %

Results Messages

	employee_name
1	Davolio, Nancy
2	Leverling, Janet
3	Peacock, Margaret
4	Suyama, Michael
5	King, Robert
6	Dodsworth, Anne

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

```
--No 3
SELECT TOP 5 c.ProductID, c.ProductName, SUM(b.Quantity) as 'Quantity'
FROM Orders as a
JOIN [Order Details] as b on b.OrderID = a.OrderID
JOIN Products as c on c.ProductID = b.ProductID
WHERE YEAR(a.OrderDate) = '1997' AND MONTH(a.OrderDate) = '1'
GROUP BY c.ProductID, c.ProductName
ORDER BY Quantity DESC;
```

100 %

Results Messages

	ProductID	ProductName	Quantity
1	33	Geitost	119
2	59	Raclette Courdavault	115
3	56	Gnocchi di nonna Alice	105
4	63	Vegie-spread	100
5	38	Côte de Blaye	99

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

```
--No 4
SELECT d.CompanyName
FROM Orders as a
JOIN [Order Details] as b on b.OrderID = a.OrderID
JOIN Products as c on c.ProductID = b.ProductID
JOIN Customers as d on d.CustomerID = a.CustomerID
WHERE YEAR(a.OrderDate) = '1997' AND MONTH(a.OrderDate) = '6' AND c.ProductName = 'Chai';
```

00 %

Results Messages

	CompanyName
1	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.

```
--No 5
WITH TOTAL_PRICE AS (SELECT ORDERID,UnitPrice*Quantity AS Total_Price
FROM [Order Details]),
category_price as(select *,
case when Total_Price <=100 then '<=100'
when Total_Price >100 and Total_Price <= 250 then '100<x<=250'
when Total_Price >250 and Total_Price <= 500 then '250<x<=500'
else '>500' end as category
from TOTAL_PRICE)

select count(distinct OrderID) as total_orderID, category from category_price group by category
```

100 %

Results Messages

	total_orderID	category
1	269	<=100
2	502	>500
3	382	100<x<=250
4	425	250<x<=500

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

```
--No 6
SELECT DISTINCT(a.CompanyName)
FROM Customers as a
JOIN Orders as b on b.CustomerID = a.CustomerID
JOIN [Order Details] as c on c.OrderID = b.OrderID
WHERE c.Quantity*c.UnitPrice > 500;
```

100 %

Results Messages

	CompanyName
1	Alfreds Futterkiste
2	Antonio Moreno Taquería
3	Around the Horn
4	Berglunds snabbköp
5	Blauer See Delikatessen
6	Blondesddsl père et fils
7	Bólido Comidas preparadas
8	Bon app'
9	Bottom-Dollar Markets
10	B's Beverages
11	Chop-suey Chinese
12	Comércio Misto

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

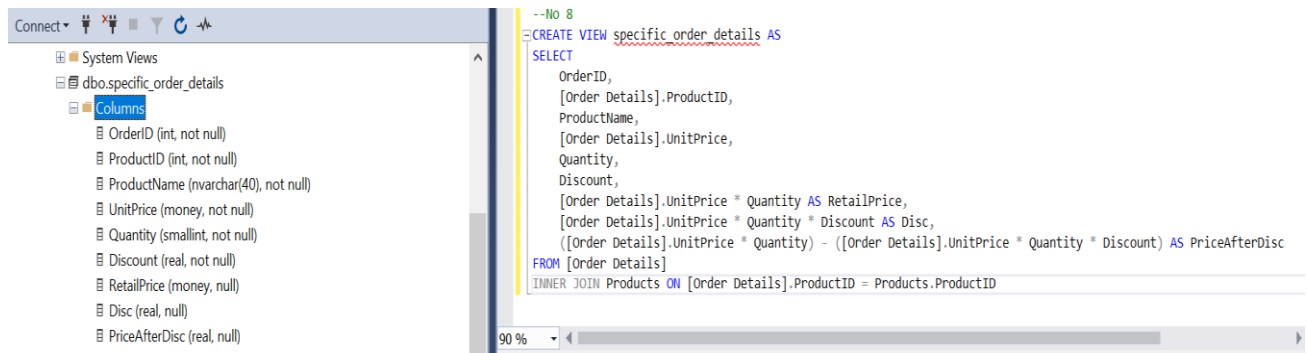
```
--No 7
WITH MonthsCTE(m) as
(
    SELECT 1 m
    UNION ALL
    SELECT m+1
    FROM MonthsCTE
    WHERE m < 12
)
SELECT m [Month], t.*
FROM MonthsCTE
CROSS APPLY
(
    SELECT TOP 5
        b.ProductName,
        SUM(a.Quantity*a.UnitPrice) as 'Sales'
    FROM [Order Details] as a
    JOIN Products as b on b.ProductID = a.ProductID
    JOIN Orders as c on c.OrderID = a.OrderID
    WHERE MONTH(c.OrderDate) = MonthsCTE.m
    GROUP BY b.ProductName
    ORDER BY Sales DESC
) t
```

56 %

Results Messages

	Month	ProductName	Sales
1	1	Côte de Blaye	39314.20
2	1	Raclette Courdavault	13145.00
3	1	Tarte au sucre	7934.30
4	1	Gnocchi di nonna Alice	7144.00
5	1	Camembert Pierrot	6936.00
6	2	Côte de Blaye	26350.00
7	2	Thüringer Rostbratwurst	22677.56
8	2	Pâté chinois	4416.00
9	2	Tarte au sucre	4386.30
10	2	Sirop d'érable	4047.00
11	3	Côte de Blaye	23451.50
12	3	Tarte au sucre	7690.80

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



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

