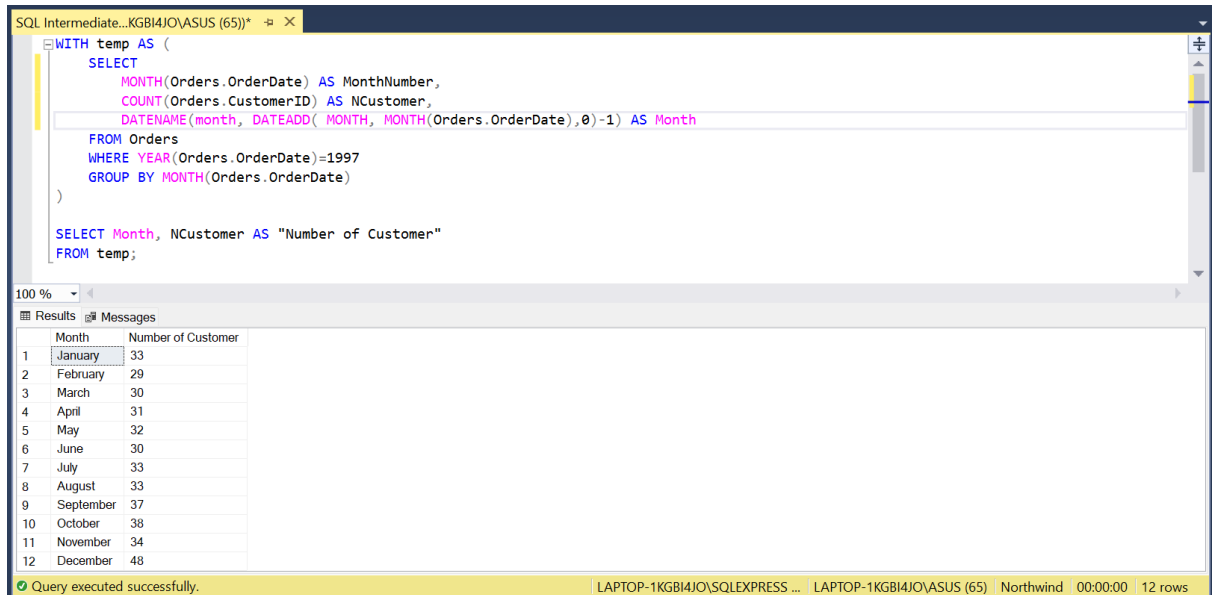


Report Intermediate Queries Mini Project Data Engineering

Muhammad Rizqiansyah

1. Jumlah customer tiap bulan yang melakukan order pada tahun 1997

- Query



The screenshot shows a SQL query in the SQL Enterprise Manager interface. The query is as follows:

```
WITH temp AS (  
    SELECT  
        MONTH(Orders.OrderDate) AS MonthNumber,  
        COUNT(Orders.CustomerID) AS NCustomer,  
        DATENAME(month, DATEADD(MONTH, MONTH(Orders.OrderDate), 0) - 1) AS Month  
    FROM Orders  
    WHERE YEAR(Orders.OrderDate) = 1997  
    GROUP BY MONTH(Orders.OrderDate)  
)  
SELECT Month, NCustomer AS "Number of Customer"  
FROM temp;
```

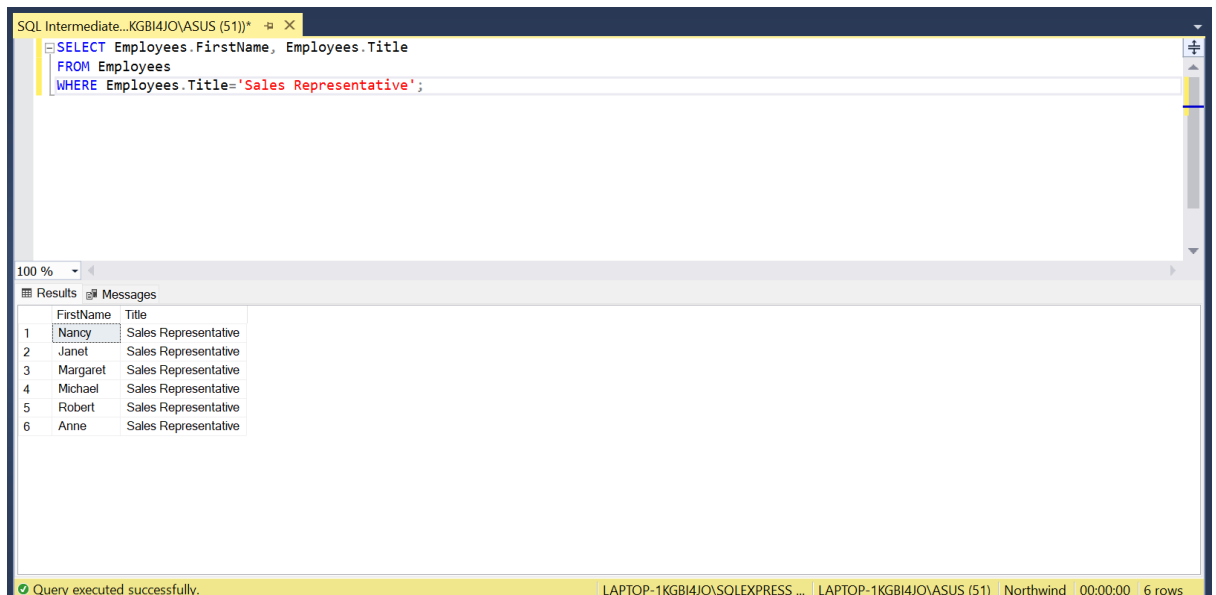
The results pane shows a table with two columns: Month and Number of Customer. The data is as follows:

Month	Number of Customer
1 January	33
2 February	29
3 March	30
4 April	31
5 May	32
6 June	30
7 July	33
8 August	33
9 September	37
10 October	38
11 November	34
12 December	48

The status bar at the bottom indicates: Query executed successfully. LAPTOP-1KGBI4JO\SQLEXPRESS ... LAPTOP-1KGBI4JO\ASUS (65) Northwind 00:00:00 12 rows

2. Nama employee yang termasuk Sales Representative

- Query



The screenshot shows a SQL query in the SQL Enterprise Manager interface. The query is as follows:

```
SELECT Employees.FirstName, Employees.Title  
FROM Employees  
WHERE Employees.Title = 'Sales Representative';
```

The results pane shows a table with two columns: FirstName and Title. The data is as follows:

FirstName	Title
1 Nancy	Sales Representative
2 Janet	Sales Representative
3 Margaret	Sales Representative
4 Michael	Sales Representative
5 Robert	Sales Representative
6 Anne	Sales Representative

The status bar at the bottom indicates: Query executed successfully. LAPTOP-1KGBI4JO\SQLEXPRESS ... LAPTOP-1KGBI4JO\ASUS (51) Northwind 00:00:00 6 rows

3. Top 5 nama produk yang quantitynya paling banyak diorder pada bulan Januari 1997

- Query

SQL Intermediate...KGBI4JO\ASUS (51)

```

SELECT
    TOP 5 Products.ProductName AS [Product Name],
    COUNT([Order Details].Quantity) AS [Total Quantity]
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 AND MONTH(Orders.OrderDate)=1
GROUP BY ProductName
ORDER BY COUNT([Order Details].Quantity) DESC

```

100 %

Results Messages

	Product Name	Total Quantity
1	Gumbär Gummibärchen	4
2	Raclette Courdavault	4
3	Alice Mutton	3
4	Geitost	3
5	Gnocchi di nonna Alice	3

Query executed successfully. LAPTOP-1KGBI4JO\SQL EXPRESS ... LAPTOP-1KGBI4JO\ASUS (51) Northwind 00:00:00 5 rows

4. Nama company yang melakukan order Chai pada bulan Juni 1997

- Query

LAPTOP-1KGBI4JO\...S.Northwind - ERD SQL Intermediate...KGBI4JO\ASUS (51)*

```

SELECT CompanyName, ProductName
FROM Customers
INNER JOIN Orders
    ON Customers.CustomerID=Orders.CustomerID
INNER JOIN [Order Details]
    ON Orders.OrderID=[Order Details].OrderID
INNER JOIN Products
    ON [Order Details].ProductID=Products.ProductID
WHERE ProductName='Chai' AND MONTH(Orders.OrderDate)=6 AND YEAR(Orders.OrderDate)=1997

```

100 %

Results Messages

	CompanyName	ProductName
1	Tortuga Restaurante	Chai

Query executed successfully. LAPTOP-1KGBI4JO\SQL EXPRESS ... LAPTOP-1KGBI4JO\ASUS (51) Northwind 00:00:00 1 rows

5. Jumlah OrderID yang pernah melakukan sales (unit_price dikali quantity) <=100, 100<x<=250, 250<x<=500, dan >500

- Query

SQL Intermediate...KGBI4JO\ASUS (65)

```

SELECT
    CASE
        WHEN UnitPrice*Quantity <= 100 THEN 'Sales <= 100'
        WHEN UnitPrice*Quantity <= 250 THEN '101 < Sales <= 250'
        WHEN UnitPrice*Quantity <= 500 THEN '250 < Sales <= 500'
        ELSE 'Sales > 500'
    END AS [Sales Range],
    COUNT(OrderID) AS "Number of OrderID"
FROM "Order Details"
GROUP BY
    CASE
        WHEN UnitPrice*Quantity <= 100 THEN 'Sales <= 100'
        WHEN UnitPrice*Quantity <= 250 THEN '101 < Sales <= 250'
        WHEN UnitPrice*Quantity <= 500 THEN '250 < Sales <= 500'
        ELSE 'Sales > 500'
    END;

```

100 %

Results Messages

	Sales Range	Number of OrderID
1	101 < Sales <= 250	472
2	Sales <= 100	351
3	Sales > 500	800
4	250 < Sales <= 500	532

Query executed successfully. LAPTOP-1KGBI4JO\SQL EXPRESS ... LAPTOP-1KGBI4JO\ASUS (65) Northwind 00:00:00 4 rows

6. Nama company yang melakukan sales di atas 500 pada tahun 1997

- Query

SQL Intermediate...KGBI4JO\ASUS (51)

```

SELECT DISTINCT(CompanyName)
FROM Orders
INNER JOIN Customers
    ON Orders.CustomerID=Customers.CustomerID
INNER JOIN "Order Details"
    ON Orders.OrderID="Order Details".OrderID
WHERE UnitPrice*Quantity>500 AND YEAR(OrderDate)=1997;

```

100 %

Results Messages

	CompanyName
1	Alfreds Futterkiste
2	Antonio Moreno Taquería
3	Around the Horn
4	Berglunds snabbköp
5	Blondesddsl père et fils
6	Bólido Comidas preparadas
7	Bon app'
8	Bottom-Dollar Markets
9	B's Beverages
10	Chop-suey Chinese
11	Comércio Mineiro
12	Die Wandernde Kuh
13	Eastern Connection
14	Ernst Handel
15	Familia Arquibaldo
16	Folies gourmandes
17	Folk och fa H&B
18	Frankenware

Query executed successfully. LAPTOP-1KGBI4JO\SQL EXPRESS ... LAPTOP-1KGBI4JO\ASUS (51) Northwind 00:00:00 65 rows

7. Nama produk yang merupakan Top 5 sales tertinggi tiap bulan di tahun 1997

- Query

The screenshot shows a SQL query window with the following query:

```
SELECT
    TOP 5 ProductName,
    SUM("Order Details".UnitPrice*Quantity)/12 AS Sales
FROM "Order Details"
INNER JOIN Products
    ON "Order Details".ProductID=Products.ProductID
INNER JOIN Orders
    ON "Order Details".OrderID=Orders.OrderID
WHERE YEAR(OrderDate)=1997
GROUP BY ProductName
ORDER BY SUM("Order Details".UnitPrice*Quantity)/12 DESC;
```

The Results pane shows the following data:

ProductID	ProductName	Sales
1	Côte de Blaye	4330.1833
2	Radette Courdavault	3159.75
3	Thüringer Rostbratwurst	3016.1816
4	Gnocchi di nonna Alice	2896.2333
5	Manjimup Dried Apples	2172.1166

The status bar at the bottom indicates: Query executed successfully. LAPTOP-1KGBI4JO\SQLSERVER ... LAPTOP-1KGBI4JO\ASUS (52) Northwind 00:00:00 5 rows

8. View untuk melihat Order Details yang berisi OrderID, ProductID, ProductName, UnitPrice, Quantity, Discount, Harga setelah diskon
 - Query

The screenshot shows a SQL query window with the following query:

```
CREATE OR ALTER VIEW ProductOrder AS
SELECT
    OrderID,
    Products.ProductID,
    ProductName,
    [Order Details].UnitPrice,
    Quantity,
    Discount,
    [Order Details].UnitPrice-Discount AS "Price after Discount"
FROM "Order Details"
INNER JOIN Products
    ON "Order Details".ProductID=Products.ProductID;
```

The Messages pane shows the following output:

```
Commands completed successfully.

Completion time: 2023-01-29T13:41:15.1096315+07:00
```

The status bar at the bottom indicates: Query executed successfully. LAPTOP-1KGBI4JO\SQLSERVER ... LAPTOP-1KGBI4JO\ASUS (51) Northwind 00:00:00 0 rows

- Mengambil data dari view "ProductOrder"

SQL Intermediate...KGBI4JO\ASUS (51) SQL Intermediate...KGBI4JO\ASUS (54)

```

SELECT *
FROM ProductOrder;

```

100 %

Results Messages

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	Price after Discount
1	10248	11	Queso Cabrales	14.00	12	0	14
2	10248	42	Singaporean Hokkien Fried Mee	9.80	10	0	9.8
3	10248	72	Mozzarella di Giovanni	34.80	5	0	34.8
4	10249	14	Tofu	18.60	9	0	18.6
5	10249	51	Manjimup Dried Apples	42.40	40	0	42.4
6	10250	41	Jack's New England Clam Chowder	7.70	10	0	7.7
7	10250	51	Manjimup Dried Apples	42.40	35	0.15	42.25
8	10250	65	Louisiana Fiery Hot Pepper Sauce	16.80	15	0.15	16.65
9	10251	22	Gustaf's Knackebrod	16.80	6	0.05	16.75
10	10251	57	Ravioli Angelo	15.60	15	0.05	15.55
11	10251	65	Louisiana Fiery Hot Pepper Sauce	16.80	20	0	16.8
12	10252	20	Sir Rodney's Marmalade	64.80	40	0.05	64.75
13	10252	33	Geitost	2.00	25	0.05	1.95
14	10252	60	Camembert Pierrot	27.20	40	0	27.2
15	10253	31	Gorgonzola Telino	10.00	20	0	10
16	10253	39	Chartreuse verte	14.40	42	0	14.4
17	10253	49	Maxilaku	16.00	40	0	16
18	10254	24	Guaraná Fantástica	3.60	15	0.15	3.45
19	10254	55	Pâté chinois	19.20	21	0.15	19.05
20	10254	74	Longlife Tofu	8.00	21	0	8
21	10255	2	Chang	15.20	20	0	15.2
22	10255	16	Pavlova	13.90	35	0	13.9
23	10255	36	Island Soft Cheese	15.20	25	0	15.2

Query executed successfully. LAPTOP-1KGBI4JO\SQLSERVER ... LAPTOP-1KGBI4JO\ASUS (54) Northwind 00:00:00 2,155 rows

9. Procedure Invoice untuk memanggil CustomerID, CustomerName, OrderID, OrderDate, RequiredDate, ShippedDate jika terdapat inputan CustomerID tertentu
- Query

SQL Intermediate...KGBI4JO\ASUS (73)*

```

CREATE PROCEDURE Invoice @CustID nchar(5)
AS
SELECT
    Customers.CustomerID,
    ContactName, OrderID,
    OrderDate,
    RequiredDate,
    ShippedDate
FROM Orders
INNER JOIN Customers
ON Orders.CustomerID=Customers.CustomerID
WHERE Customers.CustomerID=@CustID;
GO

```

100 %

Messages

Commands completed successfully.

Completion time: 2023-01-29T13:45:12.6375502+07:00

Query executed successfully. LAPTOP-1KGBI4JO\SQLSERVER ... LAPTOP-1KGBI4JO\ASUS (73) Northwind 00:00:00 0 rows