

# INTERMEDIATE QUERIES REPORT

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

```
SELECT  
    MONTH(OrderDate) AS Bulan,  
    COUNT(CustomerID) AS Jumlah_Customer  
FROM Orders  
WHERE YEAR(OrderDate)=1997  
GROUP BY YEAR(OrderDate), MONTH(OrderDate)
```

100 %

	Bulan	Jumlah_Customer
1	1	33
2	2	29
3	3	30
4	4	31
5	5	32
6	6	30
7	7	33
8	8	33
9	9	37
10	10	38
11	11	34
12	12	48

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

```
SELECT FirstName, LastName  
FROM Employees  
Where Title = 'Sales Representative'
```

100 %

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

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

```

SELECT
TOP 5 c.ProductName AS Nama_Produk,
SUM(b.Quantity) AS Jumlah_Order,
row_number() over (order by SUM(b.Quantity) desc) AS Rank
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
INNER JOIN Products AS c
ON b.ProductID = c.ProductID
WHERE YEAR(a.OrderDate)=1997 AND MONTH(a.OrderDate)=1
GROUP BY c.ProductName

```

	Nama_Produk	Jumlah_Order	Rank
1	Geitost	119	1
2	Raclette Courdavault	115	2
3	Gnocchi di nonna Alice	105	3
4	Veggie-spread	100	4
5	Côte de Blaye	99	5

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

```

SELECT
DISTINCT(d.CompanyName)
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
INNER JOIN Products AS c
ON b.ProductID = c.ProductID
INNER JOIN Customers AS d
ON a.CustomerID = d.CustomerID
WHERE (YEAR(a.OrderDate)=1997 AND MONTH(a.OrderDate)=6)
AND c.ProductName='Chai'

```

	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.

```

SELECT
CASE WHEN ((b.UnitPrice * b.Quantity) <= 100) THEN '<= 100'
WHEN ((b.UnitPrice * b.Quantity) BETWEEN 100 AND 250) THEN '100 < X <= 250'
WHEN ((b.UnitPrice * b.Quantity) BETWEEN 250 AND 500) THEN '250 < X <= 500'
WHEN ((b.UnitPrice * b.Quantity) > 500) THEN '> 500'
ELSE 'not in any criteria'
END AS Pembelian,
COUNT(a.OrderID) AS Jumlah_Order
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
GROUP BY CASE WHEN ((b.UnitPrice * b.Quantity) <= 100) THEN '<= 100'
WHEN ((b.UnitPrice * b.Quantity) BETWEEN 100 AND 250) THEN '100 < X <= 250'
WHEN ((b.UnitPrice * b.Quantity) BETWEEN 250 AND 500) THEN '250 < X <= 500'
WHEN ((b.UnitPrice * b.Quantity) > 500) THEN '> 500'
ELSE 'not in any criteria' END

```

	Pembelian	Jumlah_Order
1	> 500	800
2	<= 100	351
3	250 < X <= 500	532
4	100 < X <= 250	472

```

SELECT
COUNT(a.OrderID) AS Jumlah_Order
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
WHERE ((b.UnitPrice * b.Quantity) <= 100) OR
((b.UnitPrice * b.Quantity) BETWEEN 100 AND 500) OR
((b.UnitPrice * b.Quantity) > 100)

```

	Jumlah_Order
1	2155

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

```

SELECT DISTINCT(c.CompanyName)
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
INNER JOIN Customers AS c
ON a.CustomerID = c.CustomerID
WHERE YEAR(a.OrderDate)=1997 AND
((b.UnitPrice * b.Quantity) > 500)

```

	CompanyName				
1	Alfreds Futterkiste	19	Furia Bacalhau e Frutos d...	37	Mère Pailarde
2	Antonio Moreno Taquería	20	Godos Cocina Típica	38	Morgenstem Gesundkost
3	Around the Horn	21	Gourmet Lanchonetes	39	Old World Delicatessen
4	Berglunds snabbköp	22	Great Lakes Food Market	40	Ottilies Käseladen
5	Blondesddsl père et fils	23	Hanari Cames	41	Pericles Comidas clásicas
6	Bólido Comidas preparadas	24	HILARION-Abastos	42	Piccolo und mehr
7	Bon app'	25	Hungry Coyote Import Store	43	Princesa Isabel Vinhos
8	Bottom-Dollar Markets	26	Hungry Owl All-Night Gro...	44	Que Delícia
9	B's Beverages	27	Island Trading	45	Queen Cozinha
10	Chop-suey Chinese	28	Königlich Essen	46	QUICK-Stop
11	Comércio Mineiro	29	La maison d'Asie	47	Rattlesnake Canyon Gro...
12	Die Wandemde Kuh	30	Lehmanns Marktstand	48	Reggiani Caseifici
13	Eastern Connection	31	Let's Stop N Shop	49	Ricardo Adocicados
14	Ernst Handel	32	LILA-Supernmercado	50	Richter Supermarkt
15	Familia Arquibaldo	33	LINO-Delicateses	51	Save-a-lot Markets
16	Folies gourmandes	34	Lonesome Pine Restaurant	52	Seven Seas Imports
17	Folk och få HB	35	Magazzini Alimentari Riuniti	53	Simons bistro
18	Frankenversand	36	Maison Dewey	54	Split Rail Beer & Ale
				55	Suprêmes délices
				56	The Big Cheese
				57	The Cracker Box
				58	Toms Spezialitäten
				59	Tortuga Restaurante
				60	Vaffeljernet
				61	Victuailles en stock
				62	Wartian Herkku
				63	Wellington Importadora
				64	White Clover Markets
				65	Wolski Zajazd

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

```
WITH table1 as
(
SELECT
MONTH(a.OrderDate) AS Bulan,
c.ProductName AS Nama_Produk,
SUM(b.Quantity*b.UnitPrice) AS Sales,
row_number() over (partition by MONTH(a.OrderDate) order by SUM(b.Quantity*b.UnitPrice) desc) AS Rank
FROM Orders AS a
INNER JOIN OrderDetails AS b
ON a.OrderID = b.OrderID
INNER JOIN Products AS c
ON b.ProductID = c.ProductID
WHERE YEAR(a.OrderDate)=1997
GROUP BY MONTH(a.OrderDate), c.ProductName)

SELECT *
FROM table1
WHERE Rank <= 5
```

	Bulan	Nama_Produk	Sales	Rank
1	1	Côte de Blaye	20869,20	1
2	1	Raclette Courdavault	5060,00	2
3	1	Veggie-spread	3510,00	3
4	1	Gnocchi di nonna Alice	3192,00	4
5	1	Alice Mutton	3026,40	5
6	2	Pâté chinois	3456,00	1
7	2	Sirop d'érable	2622,00	2
8	2	Gnocchi di nonna Alice	2523,20	3
9	2	Thüringer Rostbratwurst	2376,00	4
10	2	Rössle Sauerkraut	2074,80	5

	Bulan	Nama_Produk	Sales	Rank
21	5	Côte de Blaye	8959,00	1
22	5	Ipoh Coffee	3910,00	2
23	5	Tarte au sucre	2958,00	3
24	5	Manjimup Dried Apples	2862,00	4
25	5	Alice Mutton	2847,00	5
26	6	Manjimup Dried Apples	4929,00	1
27	6	Gnocchi di nonna Alice	3800,00	2
28	6	Raclette Courdavault	2860,00	3
29	6	Gorgonzola Telino	2137,50	4
30	6	Mozzarella di Giovanni	1879,20	5

	Bulan	Nama_Produk	Sales	Rank
41	9	Thüringer Rostbratwurst	5694,34	1
42	9	Mishi Kobe Niku	4850,00	2
43	9	Camembert Pierrot	4590,00	3
44	9	Côte de Blaye	3952,50	4
45	9	Queso Manchego La ...	3800,00	5
46	10	Thüringer Rostbratwurst	6437,08	1
47	10	Raclette Courdavault	6050,00	2
48	10	Perth Pasties	4034,40	3
49	10	Tarte au sucre	3352,40	4
50	10	Ipoh Coffee	2944,00	5

	Bulan	Nama_Produk	Sales	Rank
11	3	Raclette Courdavault	7128,00	1
12	3	Côte de Blaye	6324,00	2
13	3	Manjimup Dried Apples	1950,40	3
14	3	Thüringer Rostbratwurst	1782,00	4
15	3	Camembert Pierrot	1632,00	5
16	4	Gnocchi di nonna Alice	5517,60	1
17	4	Schoggi Schokolade	5268,00	2
18	4	Thüringer Rostbratwurst	4456,44	3
19	4	Côte de Blaye	3952,50	4
20	4	Camembert Pierrot	3604,00	5

	Bulan	Nama_Produk	Sales	Rank
31	7	Raclette Courdavault	4675,00	1
32	7	Camembert Pierrot	4250,00	2
33	7	Côte de Blaye	3952,50	3
34	7	Alice Mutton	3900,00	4
35	7	Sirop d'érable	3420,00	5
36	8	Camaron Tigers	5125,00	1
37	8	Tarte au sucre	4683,50	2
38	8	Thüringer Rostbratwurst	3218,54	3
39	8	Gnocchi di nonna Alice	3040,00	4
40	8	Mozzarella di Giovanni	2610,00	5

	Bulan	Nama_Produk	Sales	Rank
51	11	Raclette Courdavault	5115,00	1
52	11	Gudbrandsdalsost	4248,00	2
53	11	Gnocchi di nonna Alice	3686,00	3
54	11	Camaron Tigers	2812,50	4
55	11	Camembert Pierrot	2210,00	5
56	12	Manjimup Dried Apples	9964,00	1
57	12	Thüringer Rostbratwurst	8912,88	2
58	12	Alice Mutton	4212,00	3
59	12	Côte de Blaye	3952,50	4
60	12	Gnocchi di nonna Alice	3800,00	5

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

```

CREATE VIEW [Product Order Detail] AS
SELECT
    a.OrderID,
    a.ProductID,
    b.ProductName,
    a.UnitPrice,
    a.Quantity,
    a.Discount,
    (a.UnitPrice*a.Quantity)-((a.UnitPrice*a.Quantity)*a.Discount) AS Harga_Setelah_Diskon
FROM OrderDetails AS a
INNER JOIN Products AS b
    ON a.ProductID = b.ProductID

```

```

SELECT *
FROM [Product Order Detail]

```

100 %

Results Messages

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	Harga_Setelah_Diskon
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

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

```

CREATE PROCEDURE Getinvoice_Para(@CustomerID VARCHAR(10))
AS
BEGIN
SELECT
    a.CustomerID,
    b.CompanyName,
    a.OrderID,
    a.OrderDate,
    a.RequiredDate,
    a.ShippedDate
FROM Orders AS a
INNER JOIN Customers AS b
    ON a.CustomerID = b.CustomerID
WHERE a.CustomerID = @CustomerID
END

```

```

EXEC Getinvoice_Para ALFKI

```

100 %

Results Messages

	CustomerID	CompanyName	OrderID	OrderDate	RequiredDate	ShippedDate
1	ALFKI	Alfreds Futterkiste	10643	1997-08-25 00:00:00.000	1997-09-22 00:00:00.000	1997-09-02 00:00:00.000
2	ALFKI	Alfreds Futterkiste	10692	1997-10-03 00:00:00.000	1997-10-31 00:00:00.000	1997-10-13 00:00:00.000
3	ALFKI	Alfreds Futterkiste	10702	1997-10-13 00:00:00.000	1997-11-24 00:00:00.000	1997-10-21 00:00:00.000
4	ALFKI	Alfreds Futterkiste	10835	1998-01-15 00:00:00.000	1998-02-12 00:00:00.000	1998-01-21 00:00:00.000
5	ALFKI	Alfreds Futterkiste	10952	1998-03-16 00:00:00.000	1998-04-27 00:00:00.000	1998-03-24 00:00:00.000
6	ALFKI	Alfreds Futterkiste	11011	1998-04-09 00:00:00.000	1998-05-07 00:00:00.000	1998-04-13 00:00:00.000