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

## Query:

### Result:

	MonthOrder	CostumerCount
1	1	27
2	2	21
3	3	24
4	4	27
5	5	26
6	6	25
7	7	25
8	8	30
9	9	27
10	10	28
11	11	27
12	12	37

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

### Query:

```
SELECT CONCAT(FirstName, ' ', LastName) as EmployeeName FROM dbo.Employees
WHERE Title = 'Sales Representative';
```

	EmployeeName
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.

## Query:

```
WITH january order AS (
     SELECT*
     FROM dbo.Orders
     WHERE MONTH(OrderDate) = 1 AND YEAR(OrderDate) = 1997
), order detail AS (
     SELECT o. OrderID, od. ProductID
     FROM dbo.Orders as o
     JOIN dbo.[Order Details] as od
            ON o.OrderID = od.OrderID
), top_5_order AS (
     SELECT ProductID, COUNT(*) as OrderCount
     FROM order_detail
      GROUP BY ProductID
      ORDER BY OrderCount DESC
      OFFSET 0 ROWS FETCH NEXT 5 ROWS ONLY
), product_detail AS (
     SELECT p.ProductName
     FROM top 5 order as t5
     JOIN dbo.Products as p
            ON t5.ProductID = p.ProductID
SELECT * FROM product_detail;
```

	ProductName						
1	Raclette Courdavault						
2	Guaraná Fantástica						
3	Gorgonzola Telino						
4	Camembert Pierrot						
5	Gnocchi di nonna Alice						

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

## Query:

```
WITH chai data AS (
      SELECT ProductID
      FROM dbo.Products
      WHERE ProductName = 'Chai'
), filtered_order_detail AS (
      SELECT*
      FROM dbo.[Order Details]
      WHERE ProductID = (
            SELECT ProductID FROM chai data
), filtered order AS (
      SELECT*
      FROM dbo.Orders
      WHERE MONTH(OrderDate) = 6 AND YEAR(OrderDate) = 1997
), used order AS (
      SELECT o.OrderID, o.CustomerID
      FROM filtered order as o
      JOIN filtered order detail as od
            ON o.OrderID = od.OrderID
), company detail AS (
      SELECT DISTINCT c.CompanyName
      FROM used order as uo
      JOIN dbo.Customers as c
            ON uo.CustomerID = c.CustomerID
SELECT CompanyName FROM company detail;
```

#### Result:

CompanyName

Tortuga Restaurante

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

## Query:

```
WITH merged data AS (
     SELECT o.OrderID, SUM(od.UnitPrice * od.Quantity) as sales
     FROM dbo.Orders as o
     JOIN dbo.[Order Details] as od
            ON o.OrderID = od.OrderID
      GROUP BY o.OrderID
), categorized_data AS (
     SELECT OrderID, sales.
      CASE
            WHEN sales <= 100 THEN '<= 100'
            WHEN 100 < sales AND sales <= 250 THEN '100 < x <= 250'
            WHEN 250 < sales AND sales <= 500 THEN '250 < x <= 500'
            WHEN sales > 500 THEN '> 500'
     END as category
     FROM merged_data
), grouped data AS (
     SELECT category, COUNT(OrderID) as count
     FROM categorized data
     GROUP BY category
SELECT * FROM grouped data;
```

	category	count
1	> 500	611
2	<= 100	37
3	250 < x <= 500	118
4	100 < x <= 250	64

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

## Query:

```
WITH filtered order AS (
      SELECT*
      FROM dbo.Orders
      WHERE YEAR(OrderDate) = 1997
), merged_data AS (
      SELECT o.OrderID, o.CustomerID, SUM(od.UnitPrice * od.Quantity) as sales
      FROM filtered order as o
      JOIN dbo.[Order Details] as od
            ON o.OrderID = od.OrderID
      GROUP BY o.OrderID, o.CustomerID
      HAVING SUM(od.UnitPrice * od.Quantity) > 500
), company data AS (
      SELECT DISTINCT c.CompanyName
      FROM merged_data as m
      JOIN dbo.Customers as c
            ON m.CustomerID = c.CustomerID
SELECT * FROM company_data;
```

CompanyName  1 Alfreds Futterkiste 2 Antonio Moreno Taquería 3 Around the Hom 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 Consolidated Holdings 13 Die Wandemde Kuh 14 Eastem Connection CompanyName 13 Die Wandemde Kuh 14 Eastem Connection 15 Emst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Cames 26 HILARION-Abastos 27 Hungan Courste Impact Stames									
Antonio Moreno Taquería Around the Hom Berglunds snabbköp Blondesddsl père et fils Bólido Comidas preparadas Bon app' Bottom-Dollar Markets B's Beverages Chop-suey Chinese Comércio Mineiro CompanyName Bie Wandemde Kuh Eastem Connection CompanyName Die Wandemde Kuh Eastem Connection Frankenversand France restauration Frankenversand Godos Cocina Típica Godos Cocina Típica Great Lakes Food Market Hanari Cames HILARION-Abastos		CompanyName							
Around the Hom Berglunds snabbköp Blondesddsl père et fils Bólido Comidas preparadas Bon app' Berglunds Markets Bon app'	1	į							
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8 Bottom-Dollar Markets 9 B's Beverages 10 Chop-suey Chinese 11 Comércio Mineiro 12 Consolidated Holdings 13 Die Wandemde Kuh 14 Eastem Connection  CompanyName 13 Die Wandemde Kuh 14 Eastem Connection 15 Ernst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	6	Bólido Comidas preparadas							
9 B's Beverages 10 Chop-suey Chinese 11 Comércio Mineiro 12 Consolidated Holdings 13 Die Wandemde Kuh 14 Eastern Connection  CompanyName 13 Die Wandemde Kuh 14 Eastern Connection 15 Ernst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	7	Bon app'							
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CompanyName  Die Wandemde Kuh  Eastern Connection  Emst Handel  Familia Arquibaldo  Folies gourmandes  Folk och fä HB  France restauration  Frankenversand  Furia Bacalhau e Frutos d  Godos Cocina Típica  Gourmet Lanchonetes  Great Lakes Food Market  Hanari Cames  HILARION-Abastos	12	Consolidated Holdings							
CompanyName  13 Die Wandemde Kuh  14 Eastem Connection  15 Ernst Handel  16 Familia Arquibaldo  17 Folies gourmandes  18 Folk och fä HB  19 France restauration  20 Frankenversand  21 Furia Bacalhau e Frutos d  22 Godos Cocina Típica  23 Gourmet Lanchonetes  24 Great Lakes Food Market  25 Hanari Carnes  26 HILARION-Abastos	13	Die Wandemde Kuh							
13 Die Wandemde Kuh 14 Eastem Connection 15 Ernst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	14	Eastern Connection							
14 Eastern Connection 15 Ernst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Cames 26 HILARION-Abastos		CompanyName							
15 Ernst Handel 16 Familia Arquibaldo 17 Folies gourmandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	13	Die Wandemde Kuh							
16 Familia Arquibaldo 17 Folies gournandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gournet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	14	Eastern Connection							
17 Folies gournandes 18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gournet Lanchonetes 24 Great Lakes Food Market 25 Hanari Cames 26 HILARION-Abastos	15	Emst Handel							
18 Folk och fä HB 19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	16	Familia Arquibaldo							
19 France restauration 20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Cames 26 HILARION-Abastos	17	Folies gournandes							
20 Frankenversand 21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	18	Folk och fä HB							
21 Furia Bacalhau e Frutos d 22 Godos Cocina Típica 23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	19	France restauration							
22 Godos Cocina Típica 23 Gournet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	20	Frankenversand							
23 Gourmet Lanchonetes 24 Great Lakes Food Market 25 Hanari Carnes 26 HILARION-Abastos	21	Furia Bacalhau e Frutos d							
24 Great Lakes Food Market 25 Hanari Cames 26 HILARION-Abastos	22	Godos Cocina Típica							
25 Hanari Cames 26 HILARION-Abastos	23	Gournet Lanchonetes							
26 HILARION-Abastos	24	Great Lakes Food Market							
20 1112111011720000		Hanari Cames							
27 Hungay County Import Stars	25	nariari Carries							

	CompanyName
25	Hanari Cames
26	HILARION-Abastos
27	Hungry Coyote Import Store
28	Hungry Owl All-Night Gro
29	Island Trading
30	Königlich Essen
31	La maison d'Asie
32	Lehmanns Marktstand
33	Let's Stop N Shop
34	LILA-Supermercado
35	LINO-Delicateses
36	Lonesome Pine Restaurant
37	Magazzini Alimentari Riuniti
38	Maison Dewey
20	Màm Paillando

20	Mòro Paillardo
	CompanyName
40	Morgenstem Gesundkost
41	Old World Delicatessen
42	Ottilies Käseladen
43	Pericles Comidas clásicas
44	Piccolo und mehr
45	Princesa Isabel Vinhos
46	Que Delícia
47	Queen Cozinha
48	QUICK-Stop
49	Rancho grande
50	Rattlesnake Canyon Gro
51	Reggiani Caseifici
52	Ricardo Adocicados
53	Richter Supermarkt
54	Savo a lot Markoto

	CompanyName
55	Seven Seas Imports
56	Simons bistro
57	Split Rail Beer & Ale
58	Suprêmes délices
59	The Big Cheese
60	The Cracker Box
61	Toms Spezialitäten
62	Tortuga Restaurante
63	Tradição Hipermercados
64	Trail's Head Gournet Pro
65	Vaffeljemet
66	Victuailles en stock
67	Wartian Herkku
68	Wellington Importadora
co	Mbita Clause Madesta
	la "
	CompanyName
58	Suprêmes délices
59	The Big Cheese
60	The Cracker Box
61	Toms Spezialitäten
62	Tortuga Restaurante
63	Tradição Hipermercados
64	Trail's Head Gournet Pro
65	Vaffeljemet
66	Victuailles en stock
67	Wartian Herkku
68	Wellington Importadora
69	White Clover Markets
70	Wilman Kala

71

Wolski Zajazd

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

## Query:

```
WITH used order AS (
      SELECT*
      FROM dbo.Orders
      WHERE YEAR(OrderDate) = 1997
), order data AS (
      SELECT o.OrderID, MONTH(o.OrderDate) as month,
      od.ProductID, (od.Quantity * od.UnitPrice) as sales
      FROM used order as o
      JOIN dbo.[Order Details] as od
            ON o.OrderID = od.OrderID
), grouped data AS (
      SELECT month, ProductID, SUM(sales) as total sales
      FROM order data
      GROUP BY month, ProductID
), ranked data AS (
      SELECT*,
      ROW_NUMBER() OVER(PARTITION BY month ORDER BY total_sales
DESC) as rank
      FROM grouped data
), filtered data AS (
      SELECT month, ProductID, total sales
      FROM ranked data
      WHERE rank < 6
), final data AS (
      SELECT fd.month, fd.ProductID,
      p.ProductName, fd.total sales
      FROM filtered data as fd
      JOIN dbo.Products as p
            ON fd.ProductID = p.ProductID
SELECT * FROM final data
ORDER BY month, total sales DESC
```

#### Result:

	month	ProductID	ProductName	total_sales		month	ProductID	ProductName	total_sales		month	ProductID	Product Name	total_sales
1	1	38	Côte de Blaye	20869,20	22	5	43	lpoh Coffee	3910.00	41	9	29	Thüringer Rostbratwurst	5694,34
2	1	59	Raclette Courdavault	5060,00	23	5	62	Tarte au sucre	2958.00	42	9	9	Mishi Kobe Niku	4850,00
3	1	63	Vegie-spread	3510,00	24	5	51	Manjimup Dried Apples	2862.00	43	9	60	Camembert Pierrot	4590,00
4	1	56	Gnocchi di nonna Alice	3192,00	25	5	17	Alice Mutton	2847.00	44	9	38	Côte de Blave	3952.50
5	1	17	Alice Mutton	3026,40	26	6	51		4929.00	45	9	12	Queso Manchego La	3800.00
6	2	55	Pâté chinois	3456,00		-		Manjimup Dried Apples		46	10	29	Thüringer Rostbratwurst	6437.08
7	2	61	Sirop d'érable	2622,00	27	6	56	Gnocchi di nonna Alice	3800,00	47	10	59	Raclette Courdayault	6050.00
8	2	56	Gnocchi di nonna Alice	2523,20	28	6	59	Raclette Courdavault	2860,00	48	10	53	Perth Pasties	4034.40
9	2	29	Thüringer Rostbratwurst	2376.00	29	6	31	Gorgonzola Telino	2137,50	49	10	62	Tarte au sucre	3352.40
10	2	28	Rössle Sauerkraut	2074.80	30	6	72	Mozzarella di Giovanni	1879,20	50	10	43	Ipoh Coffee	2944.00
11	3	59	Raclette Courdavault	7128.00	31	7	59	Raclette Courdavault	4675,00	51	11	59	Raclette Courdavault	5115.00
12	3	38	Côte de Blave	6324.00	32	7	60	Camembert Pierrot	4250,00	52	11	69	Gudbrandsdalsost	4248.00
13	3	51	Maniimup Dried Apples	1950.40	33	7	38	Côte de Blaye	3952,50	53	11	56	Gnocchi di nonna Alice	3686.00
14	3	29	Thüringer Rostbratwurst	1782.00	34	7	17	Alice Mutton	3900,00	54	11	18	Camaryon Tigers	2812.50
	3	60	Camembert Pierrot	1632.00	35	7	61	Sirop d'érable	3420,00	55	11	60	Camarvon rigers  Camembert Pierrot	2210.00
15					36	8	18	Camaryon Tigers	5125,00					
16	4	56	Gnocchi di nonna Alice	5517,60	37	8	62	Tarte au sucre	4683.50	56	12	51	Manjimup Dried Apples	9964,00
17	4	27	Schoggi Schokolade	5268,00	38	8	29	Thüringer Rostbratwurst	3218.54	57	12	29	Thüringer Rostbratwurst	8912,88
18	4	29	Thüringer Rostbratwurst	4456,44	39	8	56	Gnocchi di nonna Alice	3040.00	58	12	17	Alice Mutton	4212,00
19	4	38	Côte de Blaye	3952,50						59	12	38	Côte de Blaye	3952,50
20	4	60	Camembert Pierrot	3604,00	40	8	72	Mozzarella di Giovanni	2610,00	60	12	56	Gnocchi di nonna Alice	3800,00

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

# Query:

CREATE VIEW dbo.OrderDetailsView
AS
SELECT o.OrderID, o.ProductID, p.ProductName,
o.UnitPrice, o.Quantity,
o.Discount,(o.UnitPrice - o.Discount) as FinalPrice
FROM dbo.[Order Details] as o
JOIN dbo.Products as p
ON o.ProductID = p.ProductID

SELECT \* FROM dbo.OrderDetailsView -- Check the view

#### Result:

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	FinalPrice
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 Knäckebröd	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	10050	21	Gorgonada Tolino	10.00	20	0	10

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

# Query:

CREATE PROCEDURE dbo.GetInvoice @CustomerID nchar(5)

AS

SELECT c.CustomerID, c.CompanyName,

o.OrderID, o.OrderDate,

o.RequiredDate, o.ShippedDate

FROM dbo.Orders as o

JOIN dbo.Customers as c

ON o.CustomerID = c.CustomerID

WHERE c.CustomerID = @CustomerID

EXECUTE dbo.GetInvoice N'ANTON'; -- Check the Procedure

	CustomerID	CompanyName	OrderID	OrderDate	RequiredDate	ShippedDate
1	ANTON	Antonio Moreno Taquería	10365	1996-11-27 00:00:00.000	1996-12-25 00:00:00.000	1996-12-02 00:00:00.000
2	ANTON	Antonio Moreno Taquería	10507	1997-04-15 00:00:00.000	1997-05-13 00:00:00.000	1997-04-22 00:00:00.000
3	ANTON	Antonio Moreno Taquería	10535	1997-05-13 00:00:00.000	1997-06-10 00:00:00.000	1997-05-21 00:00:00.000
4	ANTON	Antonio Moreno Taquería	10573	1997-06-19 00:00:00.000	1997-07-17 00:00:00.000	1997-06-20 00:00:00.000
5	ANTON	Antonio Moreno Taquería	10677	1997-09-22 00:00:00.000	1997-10-20 00:00:00.000	1997-09-26 00:00:00.000
6	ANTON	Antonio Moreno Taquería	10682	1997-09-25 00:00:00.000	1997-10-23 00:00:00.000	1997-10-01 00:00:00.000
7	ANTON	Antonio Moreno Taquería	10856	1998-01-28 00:00:00.000	1998-02-25 00:00:00.000	1998-02-10 00:00:00.000