

BAGIAN 2A

1.

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SELECT DATEPART(MONTH, OrderDate) AS Month, COUNT(DISTINCT CustomerID) AS Total_Cust_Order
FROM [Northwind].[dbo].[Orders]
WHERE OrderDate BETWEEN '1997-01-01 00:00:00' AND '1997-12-31 23:59:59'
GROUP BY DATEPART(MONTH, OrderDate)
ORDER BY Month;

```

100 %

Results Messages

	Month	Total_Cust_Order
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.

```

SELECT *
FROM [Northwind].[dbo].[Employees]
WHERE Title = 'Sales Representative';

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100 %

Results Messages

	EmployeeID	LastName	FirstName	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode	Country	HomePhone
1	1	Davolio	Nancy	Sales Representative	Ms.	1948-12-08 00:00:00.000	1992-05-01 00:00:00.000	507 - 20th Ave. E. Apt. 2A	Seattle	WA	98122	USA	(206) 555-9857
2	3	Leverling	Janet	Sales Representative	Ms.	1963-08-30 00:00:00.000	1992-04-01 00:00:00.000	722 Moss Bay Blvd.	Kirkland	WA	98033	USA	(206) 555-3412
3	4	Peacock	Margaret	Sales Representative	Mrs.	1937-09-19 00:00:00.000	1993-05-03 00:00:00.000	4110 Old Redmond Rd.	Redmond	WA	98052	USA	(206) 555-8122
4	6	Suyama	Michael	Sales Representative	Mr.	1963-07-02 00:00:00.000	1993-10-17 00:00:00.000	Coventry House Miner Rd.	London	NULL	EC2 7JR	UK	(71) 555-7773
5	7	King	Robert	Sales Representative	Mr.	1960-05-29 00:00:00.000	1994-01-02 00:00:00.000	Edgeham Hollow Winchester Way	London	NULL	RG1 9SP	UK	(71) 555-5598
6	9	Dodsworth	Anne	Sales Representative	Ms.	1966-01-27 00:00:00.000	1994-11-15 00:00:00.000	7 Houndstooth Rd.	London	NULL	WG2 7LT	UK	(71) 555-4444

3.

```

SELECT TOP (5) p.ProductName,
              SUM(od.Quantity) AS Quantity_Order
FROM
  [Northwind].[dbo].[Orders] o
  LEFT JOIN [Northwind].[dbo].[Order Details] od ON o.OrderID = od.OrderID
  LEFT JOIN [Northwind].[dbo].[Products] p ON od.ProductID = p.ProductID

WHERE
  OrderDate BETWEEN '1997-01-01 00:00:00' AND '1997-01-31 23:59:59'

GROUP BY p.ProductName
ORDER BY Quantity_Order DESC;

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Results Messages

	ProductName	Quantity_Order
1	Geitost	119
2	Raclette Courdavault	115
3	Gnocchi di nonna Alice	105
4	Vegie-spread	100
5	Côte de Blaye	99

4.

```

SELECT c.CompanyName
FROM
  [Northwind].[dbo].[Orders] o
  LEFT JOIN [Northwind].[dbo].[Order Details] od ON o.OrderID = od.OrderID
  LEFT JOIN [Northwind].[dbo].[Products] p ON od.ProductID = p.ProductID
  LEFT JOIN [Northwind].[dbo].[Customers] c ON o.CustomerID = c.CustomerID

WHERE
  OrderDate BETWEEN '1997-06-01 00:00:00' AND '1997-06-30 23:59:59'
  AND p.ProductName = 'Chai'

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Results Messages

	CompanyName
1	Tortuga Restaurante

5.

```

SELECT SUM(CASE WHEN sale <= 100 THEN 1 ELSE 0 END) AS sumOrderID_x1,
       SUM(CASE WHEN sale > 100 AND sale <= 250 THEN 1 ELSE 0 END) AS sumOrderID_x2,
       SUM(CASE WHEN sale > 250 AND sale <= 500 THEN 1 ELSE 0 END) AS sumOrderID_x3,
       SUM(CASE WHEN sale > 500 THEN 1 ELSE 0 END) AS sumOrderID_x4
FROM
  (SELECT OrderID, UnitPrice*Quantity as sale
   FROM [Order Details]) sub

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Results Messages

	sumOrderID_x1	sumOrderID_x2	sumOrderID_x3	sumOrderID_x4
1	351	472	532	800

6. Result : NULL

```

SELECT c.CompanyName, sum(od.quantity) as total
FROM
  [Northwind].[dbo].[Orders] o
  LEFT JOIN [Northwind].[dbo].[Order Details] od ON o.OrderID = od.OrderID
  LEFT JOIN [Northwind].[dbo].[Customers] c ON o.CustomerID = c.CustomerID
WHERE
  OrderDate BETWEEN '1997-01-01 00:00:00' AND '1997-01-31 23:59:59'
GROUP BY c.CompanyName
--HAVING SUM(od.quantity) > 500
ORDER BY total desc

```

100 %

Results Messages

	CompanyName	total
1	Ernst Handel	411
2	Bottom-Dollar Markets	269
3	Rattlesnake Canyon Grocery	168
4	QUICK-Stop	146
5	Mère Paillarde	139
6	Simons bistro	123
7	La maison d'Asie	108
8	Magazzini Alimentari Riuniti	100
9	Queen Cozinha	89
10	Eastern Connection	86
11	Richter Supermarkt	80

```

SELECT c.CompanyName, sum(od.quantity) as total
FROM
  [Northwind].[dbo].[Orders] o
  LEFT JOIN [Northwind].[dbo].[Order Details] od ON o.OrderID = od.OrderID
  LEFT JOIN [Northwind].[dbo].[Customers] c ON o.CustomerID = c.CustomerID
WHERE
  OrderDate BETWEEN '1997-01-01 00:00:00' AND '1997-01-31 23:59:59'
GROUP BY c.CompanyName
HAVING SUM(od.quantity) > 500
ORDER BY total desc

```

100 %

Results Messages

CompanyName	total
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7.

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with sales AS(
  SELECT OrderID, ProductID, (UnitPrice*Quantity)*(1-Discount) as sale
  FROM [Order Details]
),
specProduct AS(
  SELECT ProductID, ProductName
  FROM [Products]
)
SELECT distinct TOP (5) DATEPART(MONTH, OrderDate) AS Month, sp.ProductName, s.sale
FROM
  [Northwind].[dbo].[Orders] o
  LEFT JOIN sales s ON o.OrderID = s.OrderID
  LEFT JOIN specProduct sp ON s.ProductID = sp.ProductID
WHERE
  OrderDate BETWEEN '1997-01-01 00:00:00' AND '1997-12-31 23:59:59'
GROUP BY DATEPART(MONTH, OrderDate), sp.ProductName, s.sale
ORDER BY Month, s.sale DESC

```

100 %

Results Messages

	Month	ProductName	sale
1	1	Côte de Blaye	10540
2	1	Côte de Blaye	8263.36
3	1	Raclette Courdavault	2464
4	1	Veggie-spread	2281.5
5	1	Gnocchi di nonna Alice	2128

8.

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CREATE VIEW ordersview
AS
SELECT od.OrderID, od.ProductID, p.ProductName, od.UnitPrice, od.Quantity, od.Discount, (od.UnitPrice*(1-od.Discount)) AS harga_setelah_diskon
FROM [Order Details] od,[Products] p
WHERE od.ProductID = p.ProductID;

SELECT * FROM ordersview;

```

Results Messages

	OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	harga_setelah_diskon
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	36,04
8	10250	65	Louisiana Fiery Hot Pepper Sauce	16,80	15	0,15	14,28
9	10251	22	Gustaf's Knäckebröd	16,80	6	0,05	15,96
10	10251	57	Ravioli Angelo	15,60	15	0,05	14,82
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	61,56
13	10252	33	Gettost	2,00	25	0,05	1,9
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

9.

```

CREATE PROCEDURE Invoice(@CustomerID nvarchar(10))
AS
BEGIN
SELECT
    o.CustomerID,
    c.CompanyName,
    o.OrderID,
    OrderDate,
    o.RequiredDate,
    o.ShippedDate
FROM
    [Northwind].[dbo].[Orders] o
    LEFT JOIN [Northwind].[dbo].[Customers] c ON o.CustomerID = c.CustomerID
WHERE o.CustomerID = @CustomerID

END
EXEC Invoice @CustomerID = 'DUMON';

```

Results Messages

	CustomerID	CompanyName	OrderID	OrderDate	RequiredDate	ShippedDate
1	DUMON	Du monde entier	10311	1996-09-20 00:00:00.000	1996-10-04 00:00:00.000	1996-09-26 00:00:00.000
2	DUMON	Du monde entier	10609	1997-07-24 00:00:00.000	1997-08-21 00:00:00.000	1997-07-30 00:00:00.000
3	DUMON	Du monde entier	10683	1997-09-26 00:00:00.000	1997-10-24 00:00:00.000	1997-10-01 00:00:00.000
4	DUMON	Du monde entier	10890	1998-02-16 00:00:00.000	1998-03-16 00:00:00.000	1998-02-18 00:00:00.000