Database Management System

Home Tasks 04

Session: 2022 - 2026



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Lab 04 Home Task Queries

Question 01

List name of all the products whose price is above average. (Product Name)

Query:

SELECT ProductName
FROM Northwind.dbo.Products
WHERE UnitPrice > (SELECT AVG(UnitPrice) FROM Northwind.dbo.Products);

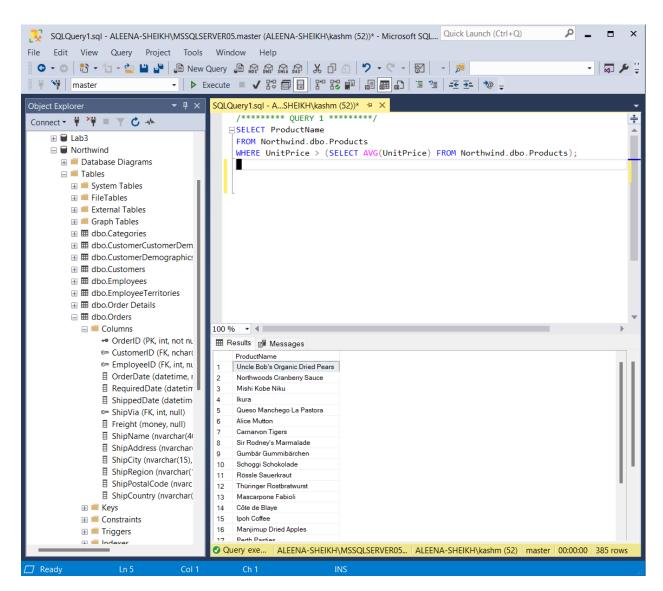


Figure 1: Query 01

Write a query to generate report showing date wise orders shipped. (ShippedDate, numberoforders) .

Query:

SELECT ShippedDate, Count(ShippedDate) AS numberoforders FROM Northwind.dbo.Orders
WHERE ShippedDate IS NOT NULL
GROUP BY ShippedDate
ORDER BY ShippedDate;

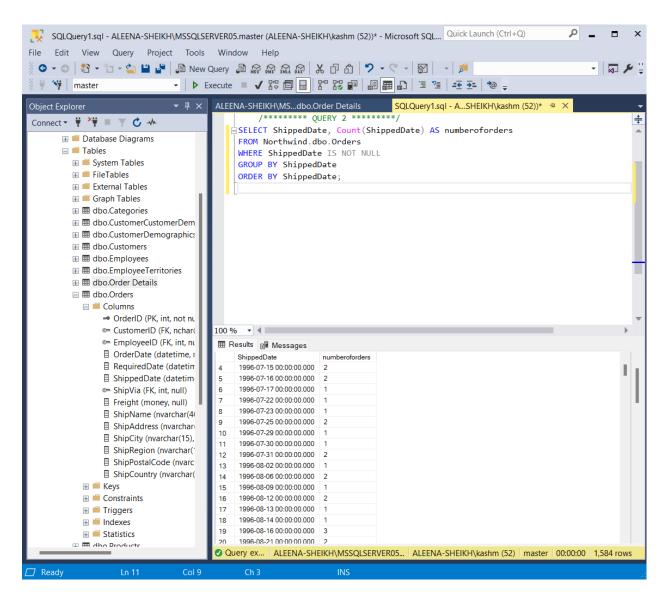


Figure 2: Query 02

List name of all countries from where two or more suppliers belong to. (Country)

Query:

```
SELECT Country
FROM Northwind.dbo.Suppliers
GROUP BY Country
HAVING (SELECT COUNT(Country)) >= 2;
```

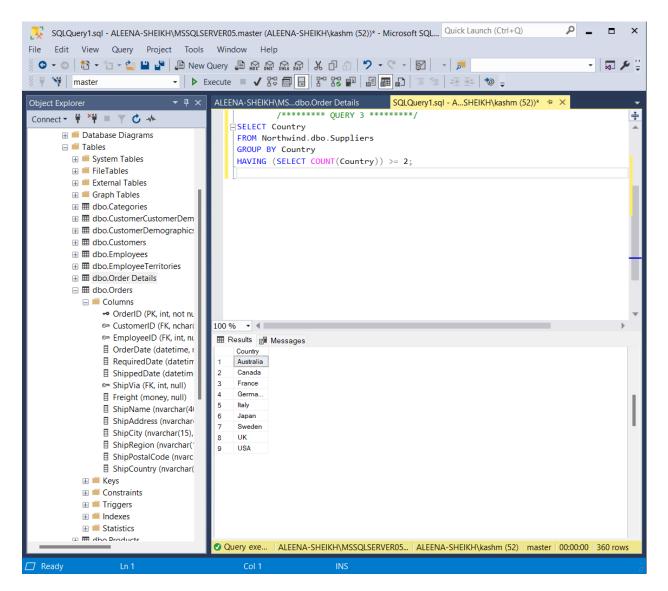


Figure 3: Query 03

Write a query to generate report showing month wise orders delayed shipped. Your output should look like this (Month Number, Orders Delayed)

Month	Number	Orders Delaye
1		75
2		75
12		55

Query:

SELECT MONTH(OrderDate) AS 'Month Number', Count(*) AS 'Orders Delayed'
FROM Northwind.dbo.Orders
WHERE ShippedDate > OrderDate AND ShippedDate IS NOT NULL
GROUP BY OrderDate
ORDER BY MONTH(OrderDate);

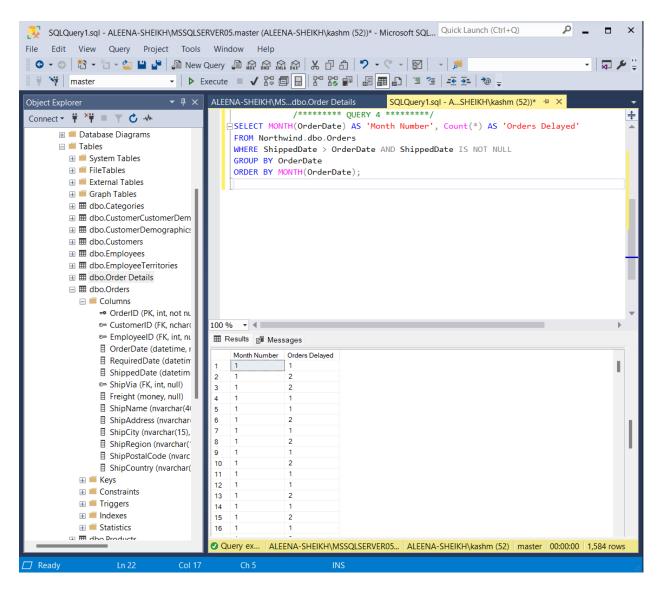


Figure 4: Query 04

Report all the orders which have been discounted. Your result should show the total discount against each order. Output should look like this (Order ID, Discount)

OrderID Discount

10250 0.300000011920929 10251 0.100000001490116

Query:

SELECT OrderID, SUM(Discount) AS TotalDiscount
FROM Northwind.dbo.[Order Details]
GROUP BY OrderID, Discount
HAVING SUM(Discount) > 0;

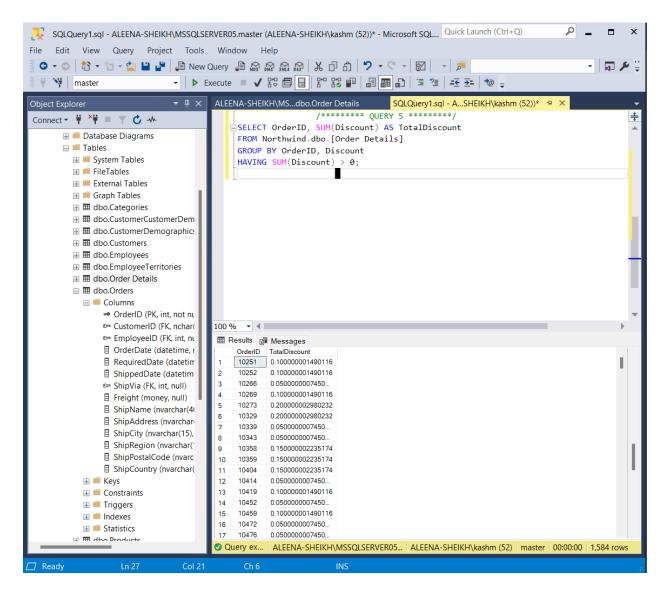


Figure 5: Query 05

Write a query to list the number of orders which were shipped in the cities of USA in 1997. Show the number of order against each city. (Ship City, Number of orders)

Query:

```
SELECT ShipCity, Count(*) AS 'Number of Orders'
FROM Northwind.dbo.Orders
WHERE ShipCountry= 'USA' AND YEAR(ShippedDate) = 1997
GROUP BY ShipCity;
```

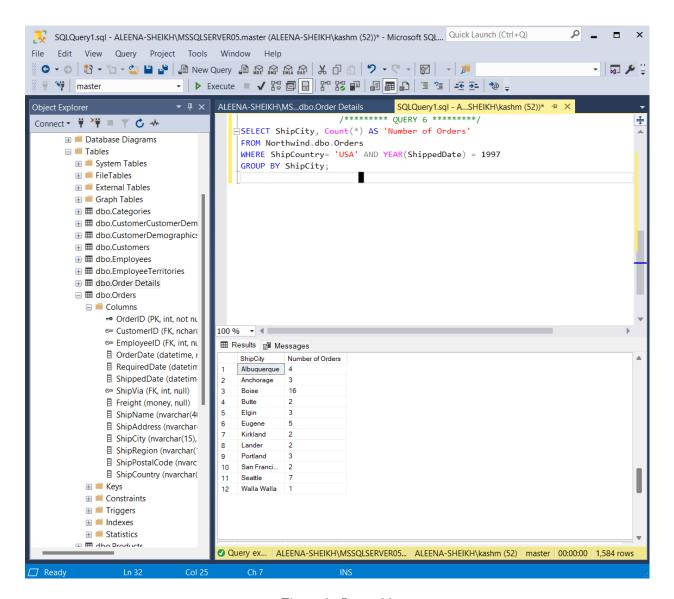


Figure 6: Query 06

Write a query to generate report showing country wise orders delayed shipped. Your output should look like this: (Country, Orders Delayed)

Country	Urders	Delaye
UK		75
USA		75
China		55

Query:

SELECT ShipCountry, Count(*) AS 'Orders Delayed'
FROM Northwind.dbo.Orders
WHERE ShippedDate > OrderDate AND ShippedDate IS NOT NULL
GROUP BY ShipCountry;

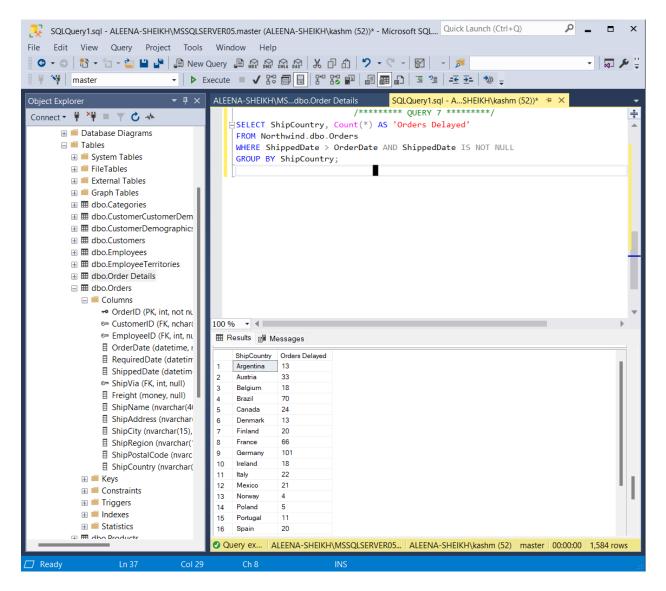


Figure 7: Query 07

Report all the orders which have been discounted with total price of order. Your result should show the total discount against each order. Output should look like this: (Order ID, Discount, Total Price)

OrderID	Discount	Total Price
10250	0.30000011920929	1854
10251	0.10000001490116	435

Query:

SELECT OrderID, SUM(Discount) AS Discount, SUM(UnitPrice * Quantity) AS 'Total Price'
FROM Northwind.dbo.[Order Details]
GROUP BY OrderID
HAVING SUM(Discount) > 0;

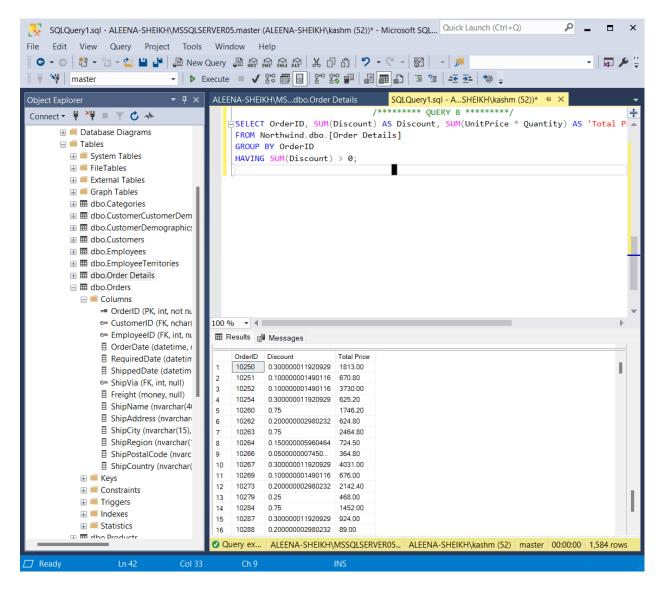


Figure 8: Query 08

Write a query to list the number of orders which were shipped in the cities of each region in 1997. Show the number of order against each city. Your results should look like this: (ShipRegion, ShipCity, Numberoforders)

ShipRegion	${ t ShipCity}$	Numberoforders
AK	Lander	3
CJ	Walla Walla	5

Query:

SELECT ShipRegion, ShipCity, Count(*) AS Orders
FROM Northwind.dbo.Orders
WHERE Year(ShippedDate) = 1997
GROUP BY ShipRegion, ShipCity;

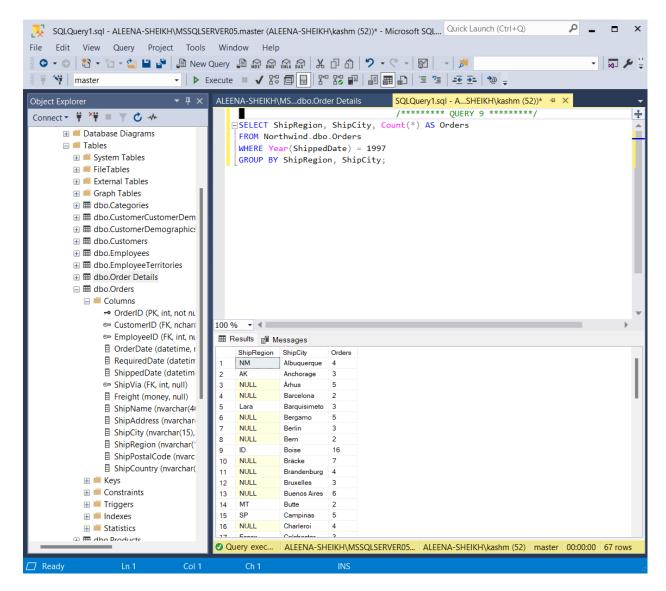


Figure 9: Query 09