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SUBJECT:

Lab 04 Hometask

SECTION:

A

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The central pane shows a SQL query in the 'SQLQuery2.sql' file:

```
/* List name of all the products whose price is above average. (Product Name) */  
SELECT ProductName FROM Products WHERE UnitPrice > (SELECT AVG(UnitPrice) FROM Products);
```

The bottom pane shows the 'Results' tab with the following data:

ProductID	ProductName
1	Uncle Bob's Organic Dried Pears
2	Northwoods Cranberry Sauce
3	Mishi Kobe Niku
4	Buns
5	Queso Manchego La Pastora
6	Alice Mutton
7	Camarones Tigres
8	Sir Rodney's Marmalade
9	Gumbat GummiBäckerchen
10	Schoggi Schokolade
11	Rössle Sauerkraut
12	Thüringer Rostbraten
13	Maccarone Fabboli
14	Côte de Blaye
15	Ispah Coffee
16	Marjoram Dried Apples
17	Pearls Pasties
18	Gnocchi di nonna Alice

The status bar at the bottom indicates 'Query executed successfully.' and '25 rows'.

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The right pane shows a query window with the following SQL query:

```
/* Write a query to generate report showing date wise orders shipped. (ShippedDate, numberoforders) */  
SELECT ShippedDate,COUNT(*) as numberoforders FROM Orders WHERE ShippedDate IS NOT NULL GROUP BY ShippedDate ORDER BY ShippedDate;
```

The bottom pane shows the 'Results' tab with the following data:

ShippedDate	numberoforders
1996-07-10 00:00:00.000	1
1996-07-11 00:00:00.000	1
1996-07-12 00:00:00.000	1
1996-07-19 00:00:00.000	2
1996-07-16 00:00:00.000	2
1996-07-17 00:00:00.000	1
1996-07-22 00:00:00.000	1
1996-07-23 00:00:00.000	1
1996-07-25 00:00:00.000	2
1996-07-29 00:00:00.000	1
1996-07-30 00:00:00.000	1
1996-07-31 00:00:00.000	2
1996-08-02 00:00:00.000	1
1996-08-06 00:00:00.000	2
1996-08-09 00:00:00.000	1
1996-08-12 00:00:00.000	2
1996-08-13 00:00:00.000	1
1996-08-14 00:00:00.000	1

The status bar at the bottom indicates 'Query executed successfully.' and '360 rows'.

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The central pane shows a SQL query in the 'SQLQuery2.sql' file:

```
/* List name of all countries from where two or more suppliers belong to. (Country) */  
SELECT Country FROM Suppliers GROUP BY Country HAVING Count(*) > 1;
```

The bottom pane shows the 'Results' tab with the following data:

Country
Australia
Canada
France
Germany
Italy
Japan
Sweden
UK
USA

The status bar at the bottom indicates 'Query executed successfully.' and '9 rows'.

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The right pane shows a query window with the following SQL query:

```
/*
: a query to generate report showing month wise orders delayed shipped. Your output should look like this (Month Number, Orders Delayed) */
MONTH(ShippedDate) as [Month Number], COUNT(*) as [Orders Delayed] FROM Orders WHERE ShippedDate > RequiredDate GROUP BY MONTH(ShippedDate);
```

Below the query window, the 'Results' tab is active, displaying a table with the following data:

Month Number	Orders Delayed
1	4
2	4
3	3
4	5
5	2
6	1
7	1
8	4
9	1
10	6
11	1
12	3

The status bar at the bottom indicates 'Query executed successfully.' and '12 rows'.

5. 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)

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```

-- 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, SUM(Discount) as Discount FROM [Order Details] GROUP BY OrderID,Discount HAVING AVG(Discount) > 0 ORDER BY OrderID;

```

The Results pane shows the output of the query, displaying a table with two columns: OrderID and Discount. The data is as follows:

OrderID	Discount
10250	0.3000000011920929
10251	0.100000001490116
10252	0.100000001490116
10254	0.3000000011920929
10260	0.75
10262	0.200000002980232
10263	0.75
10264	0.150000005960464
10266	0.0500000007450581
10267	0.3000000011920929
10269	0.100000001490116
10273	0.200000002980232
10279	0.25
10284	0.75
10287	0.3000000011920929
10288	0.200000002980232
10291	0.30000000470348
10296	0.5

The status bar at the bottom indicates "Query executed successfully." and "324 rows".

6. 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)

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The 'Object Explorer' on the left shows the server structure. The 'SQL Query 2.sql' window in the center contains the following query:

```
/* 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. */  
SELECT ShipCity, COUNT(*) AS [Number of orders] FROM Orders WHERE YEAR(ShippedDate) = '1997' AND ShipCountry = 'USA' GROUP BY ShipCity;
```

The 'Results' pane at the bottom shows the output of the query, which is a table with two columns: 'ShipCity' and 'Number of orders'. The data is as follows:

ShipCity	Number of orders
Albuquerque	4
Anchorage	3
Boise	16
Bute	2
Elgin	3
Eugene	5
Kirkland	2
Lander	2
Portland	3
San Francisco	2
Seattle	7
Walla Walla	1

The status bar at the bottom indicates 'Query executed successfully.' and '12 rows'.

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

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The central pane shows a SQL query window with the following text:

```
to generate report showing country wise orders delayed shipped. Your output should look like this: (Country, Orders Delayed) */
y, COUNT(*) AS [Orders Delays] FROM Orders WHERE ShippedDate > RequiredDate GROUP BY ShipCountry;
```

The bottom pane shows the 'Results' tab with a table of data:

ShipCountry	Orders Delays
Argentina	1
Austria	1
Belgium	1
Brazil	2
Finland	1
France	2
Germany	4
Ireland	3
Italy	2
Portugal	1
Spain	1
Sweden	3
UK	4
USA	7
Venezuela	2

The status bar at the bottom indicates 'Query executed successfully.' and '15 rows'.

8. 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)

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
SELECT OrderID, SUM(Discount) as Discount, SUM(UnitPrice) as TotalPrice FROM [Order Details] GROUP BY OrderID, Discount HAVING AVG(Discount) > 0 ORDER BY OrderID;
```

The query results are displayed in the Results pane, showing 18 rows of data. The columns are OrderID, Discount, and TotalPrice.

OrderID	Discount	TotalPrice
10250	0.300000011920929	59.20
10251	0.100000001490116	32.40
10252	0.100000001490116	66.80
10254	0.300000011920929	22.80
10260	0.75	59.10
10262	0.200000002980232	17.00
10263	0.75	42.60
10264	0.150000005960464	7.70
10266	0.0500000007450581	30.40
10267	0.300000011920929	58.40
10269	0.100000001490116	29.80
10273	0.200000002980232	63.90
10279	0.25	31.20
10284	0.75	73.50
10287	0.300000011920929	23.50
10288	0.200000002980232	15.90
10291	0.300000004470348	62.70
10298	0.5	59.20

The status bar at the bottom indicates that the query was executed successfully, returning 324 rows.

9. 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)

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Northwind' database selected. The central pane shows a SQL query window with the following query:

```
/* 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) */
SELECT ShipRegion,ShipCity,COUNT(*) as Orders FROM Orders WHERE ShipRegion IS NOT NULL GROUP BY ShipRegion,ShipCity ORDER BY ShipRegion;
```

The bottom pane shows the 'Results' tab with the following data:

ShipRegion	ShipCity	Orders
AK	Anchorage	9
BC	Tsawassen	12
BC	Vancouver	3
CA	San Francisco	3
CO	Cork	18
DF	Caracas	1
ES	Colchester	10
ID	Boise	25
IS	Cornes	9
LA	Barquisimeto	11
MT	Butte	3
NM	Albuquerque	13
NE	La de Margarita	10
OR	Elgin	4
OR	Eugene	10
OR	Portland	10
QC	Montreal	10
RJ	Rio de Janeiro	28

The status bar at the bottom indicates 'Query executed successfully.' and '26 rows'.