

1) Write a query to get a Product list (id, name, unit price) where current products cost less than \$20.

Solution query:

Select \* from products

SELECT ProductID, ProductName, UnitPrice

FROM Products

WHERE UnitPrice < 20 AND Discontinued = '0'

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE UnitPrice < 20 AND Discontinued = '0'
```

The results are displayed in a table with the following columns: ProductID, ProductName, and UnitPrice. The table contains 37 rows of data.

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
3	Aniseed Syrup	10.00
13	Konbu	6.00
15	Genen Shouyu	15.50
16	Pavlova	17.45
19	Teatime Chocolate Biscuits	9.20
21	Sir Rodney's Scones	10.00
23	Tunnbröd	9.00
25	NuNuCa Nuß-Nougat-Creme	14.00
31	Gorgonzola Telino	12.50
33	Geitost	2.50
34	Sasquatch Ale	14.00
35	Steeleye Stout	18.00
36	Inlagd Sill	19.00
39	Chartreuse verte	18.00
40	Boston Crab Meat	18.40
41	Jack's New England Clam Chowder	9.65
44	Gula Malacca	19.45
45	Rogede sild	9.50
46	Spegesild	12.00
47	Zaanse koeken	9.50
48	Chocolade	12.75
50	Valkoinen suklaa	16.25
52	Filo Mix	7.00
54	Touffes de...	7.45

The status bar at the bottom indicates that the query was executed successfully, showing 37 rows of data. The system tray at the bottom right shows the date and time as 03-02-2023 17:20.

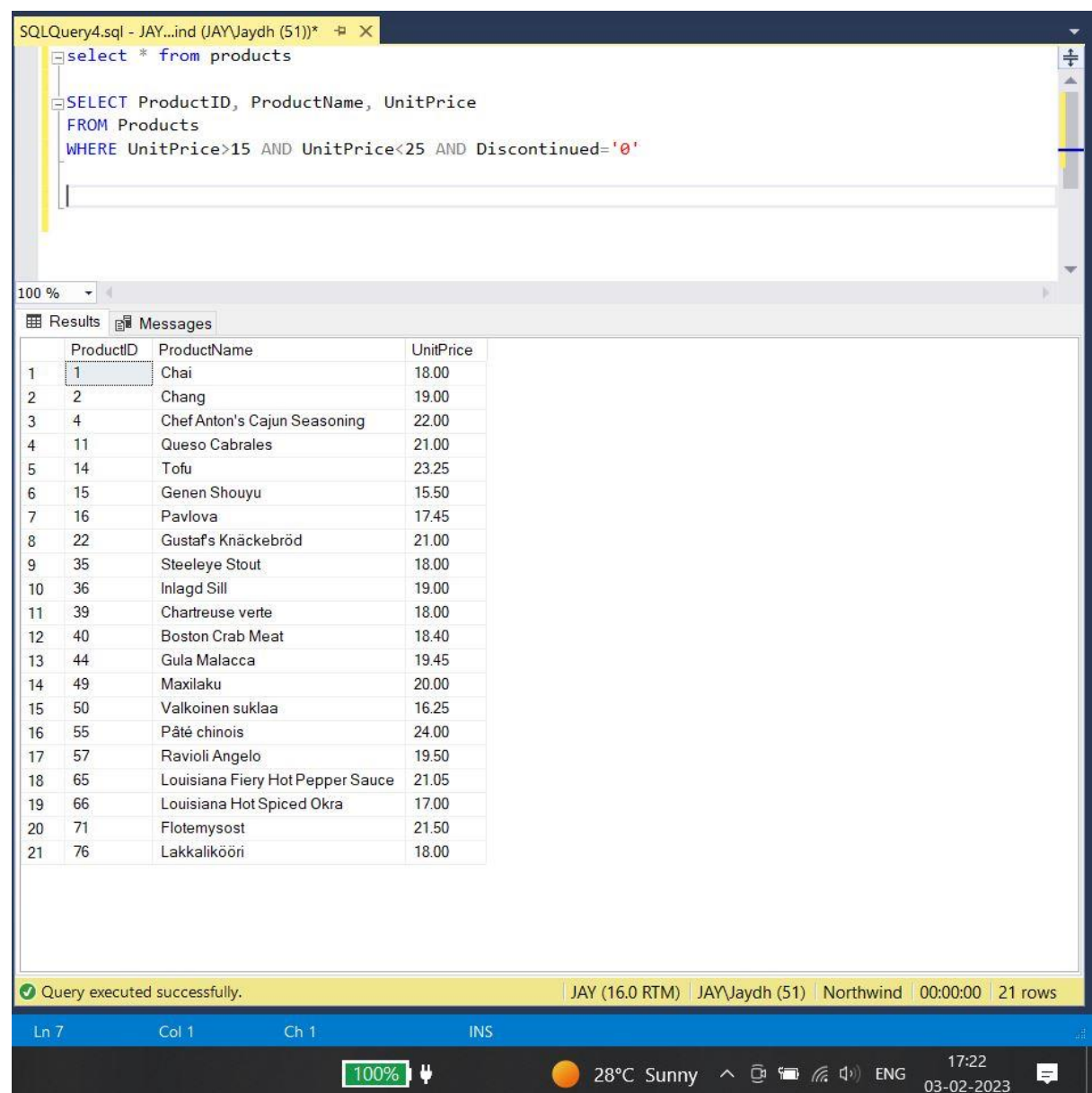
2. Write a query to get Product list (id, name, unit price) where products cost between \$15 and \$25

Query solution:

SELECT ProductID, ProductName, UnitPrice

FROM Products

WHERE UnitPrice > 15 AND UnitPrice < 25 AND Discontinued = '0'



The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
select * from products

SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE UnitPrice>15 AND UnitPrice<25 AND Discontinued='0'
```

The results are displayed in a table with the following columns: ProductID, ProductName, and UnitPrice. The table contains 21 rows of data.

	ProductID	ProductName	UnitPrice
1	1	Chai	18.00
2	2	Chang	19.00
3	4	Chef Anton's Cajun Seasoning	22.00
4	11	Queso Cabrales	21.00
5	14	Tofu	23.25
6	15	Genen Shouyu	15.50
7	16	Pavlova	17.45
8	22	Gustaf's Knäckebröd	21.00
9	35	Steeleye Stout	18.00
10	36	Inlagd Sill	19.00
11	39	Chartreuse verte	18.00
12	40	Boston Crab Meat	18.40
13	44	Gula Malacca	19.45
14	49	Maxilaku	20.00
15	50	Valkoinen suklaa	16.25
16	55	Pâté chinois	24.00
17	57	Ravioli Angelo	19.50
18	65	Louisiana Fiery Hot Pepper Sauce	21.05
19	66	Louisiana Hot Spiced Okra	17.00
20	71	Flotemysost	21.50
21	76	Lakkalikööri	18.00

The status bar at the bottom indicates that the query was executed successfully, returning 21 rows. The system tray shows the time as 17:22 on 03-02-2023, and the weather is 28°C Sunny.

3. Write a query to get Product list (name, unit price) of above average price.

Query solution:

Declare @avg\_price FLOAT;

Select @avg\_price = avg (unitPrice) from Products;

Select productName, UnitPrice

From products

Where unitPrice > @avg\_price

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
SQLQuery4.sql - JAY...ind (JAY\Jaydh (51))*  
--select * from products  
  
declare @avg_price FLOAT;  
select @avg_price = avg (unitPrice) from Products;  
  
--select productName, UnitPrice  
--from products  
--where unitPrice > @avg_price
```

The results are displayed in a table with two columns: productName and UnitPrice. The table contains 25 rows of data, showing products with unit prices greater than the average unit price of the Products table.

	productName	UnitPrice
1	Uncle Bob's Organic Dried Pears	30.00
2	Northwoods Cranberry Sauce	40.00
3	Mishi Kobe Niku	97.00
4	Ikura	31.00
5	Queso Manchego La Pastora	38.00
6	Alice Mutton	39.00
7	Carnarvon Tigers	62.50
8	Sir Rodney's Marmalade	81.00
9	Gumbär Gummibärchen	31.23
10	Schoggi Schokolade	43.90
11	Rössle Sauerkraut	45.60
12	Thüringer Rostbratwurst	123.79
13	Mascarpone Fabioli	32.00
14	Côte de Blaye	263.50
15	Ipoh Coffee	46.00
16	Manjimup Dried Apples	53.00
17	Perth Pasties	32.80
18	Gnocchi di nonna Alice	38.00
19	Raclette Courdavault	55.00
20	Camembert Pierrot	34.00
21	Tarte au sucre	49.30
22	Vegie-spread	43.90
23	Wimmers gute Semmelknödel	33.25
24	Gudbrandsdalsost	36.00
25	Mozzarella di Giovanni	34.80

Query executed successfully. JAY (16.0 RTM) JAY\Jaydh (51) Northwind 00:00:00 25 rows

4. Write a query to get Product list (name, unit price) of ten most expensive products

Query solution:

Select ProductName, UnitPrice

FROM Products AS a

WHERE 10 >= (SELECT COUNT(DISTINCT UnitPrice)

FROM Products AS b

WHERE b.UnitPrice >= a.UnitPrice)

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
select * from products  
  
SELECT ProductName, UnitPrice  
FROM Products AS a  
WHERE 10 >= (SELECT COUNT(DISTINCT UnitPrice)  
FROM Products AS b  
WHERE b.UnitPrice >= a.UnitPrice)
```

The results are displayed in a table with 10 rows, showing the top 10 most expensive products. The status bar at the bottom indicates the query was executed successfully, returning 10 rows.

	ProductName	UnitPrice
1	Mishi Kobe Niku	97.00
2	Carnarvon Tigers	62.50
3	Sir Rodney's Marmalade	81.00
4	Rössle Sauerkraut	45.60
5	Thüringer Rostbratwurst	123.79
6	Côte de Blaye	263.50
7	Ipoh Coffee	46.00
8	Manjimup Dried Apples	53.00
9	Raclette Courdavault	55.00
10	Tarte au sucre	49.30

Query executed successfully. | JAY (16.0 RTM) | JAY\Jaydh (51) | Northwind | 00:00:00 | 10 rows

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100% 28°C Sunny 17:38 03-02-2023

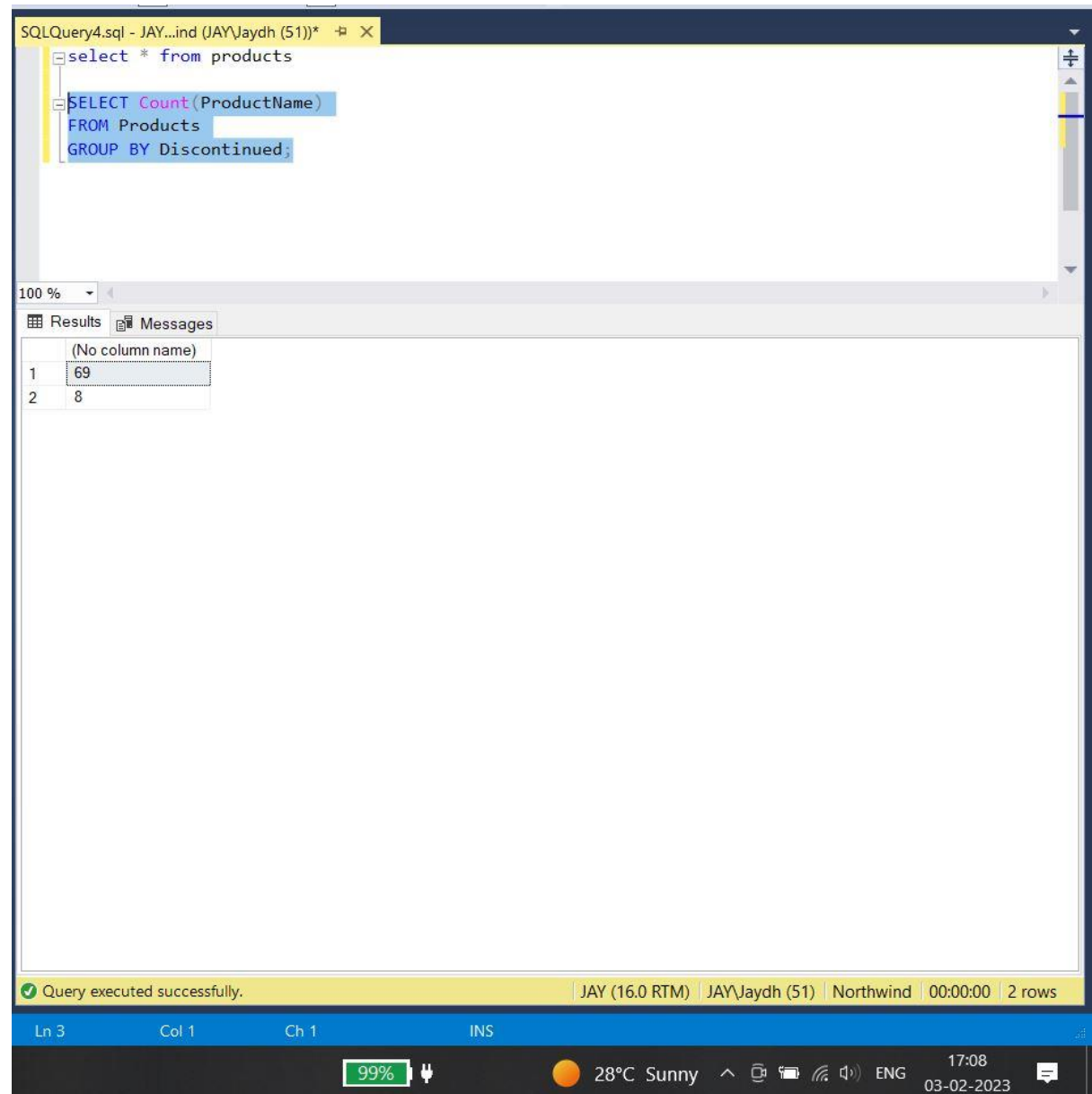
5. Write a query to count current and discontinued products

Query solution:

SELECT Count (ProductName)

FROM Products

Group BY Discontinued;



The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
select * from products  
  
SELECT Count(ProductName)  
FROM Products  
GROUP BY Discontinued;
```

The results pane shows two rows of data:

	(No column name)
1	69
2	8

The status bar at the bottom indicates: Query executed successfully. JAY (16.0 RTM) | JAY\Jaydh (51) | Northwind | 00:00:00 | 2 rows

6. Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order.

Select ProductName, UnitOnOrder, UnitsInStock

From Products

Where Discontinued = '0' AND UnitsInStock < UnitsOnOrder;

The screenshot shows a SQL Server Enterprise Manager window with a query executed successfully. The query is as follows:

```
select * from products

select ProductName, UnitsOnOrder, UnitsInStock
from Products
where Discontinued='0' AND UnitsInStock < UnitsOnOrder;
```

The results are displayed in a table with the following data:

	ProductName	UnitsOnOrder	UnitsInStock
1	Chang	40	17
2	Aniseed Syrup	70	13
3	Queso Cabrales	30	22
4	Sir Rodney's Scones	40	3
5	Gorgonzola Telino	70	0
6	Mascarpone Fabioli	40	9
7	Gravad lax	50	11
8	Rogede sild	70	5
9	Chocolade	70	15
10	Maxilaku	60	10
11	Wimmers gute Semmelknödel	80	22
12	Louisiana Hot Spiced Okra	100	4
13	Scottish Longbreads	10	6
14	Longlife Tofu	20	4

The status bar at the bottom indicates: Query executed successfully. | JAY (16.0 RTM) | JAY\Jaydh (51) | Northwind | 00:00:00 | 14 rows