

```
CREATE TABLE "Products" (  
    "ProductID" "int" IDENTITY (1, 1) NOT NULL ,  
    "ProductName" nvarchar (40) NOT NULL ,  
    "SupplierID" "int" NULL ,  
    "CategoryID" "int" NULL ,  
    "QuantityPerUnit" nvarchar (20) NULL ,  
    "UnitPrice" "money" NULL CONSTRAINT "DF_Products_UnitPrice" DEFAULT (0),  
    "UnitsInStock" "smallint" NULL CONSTRAINT "DF_Products_UnitsInStock" DEFAULT (0),  
    "UnitsOnOrder" "smallint" NULL CONSTRAINT "DF_Products_UnitsOnOrder" DEFAULT (0),  
    "ReorderLevel" "smallint" NULL CONSTRAINT "DF_Products_ReorderLevel" DEFAULT (0),  
    "Discontinued" "bit" NOT NULL CONSTRAINT "DF_Products_Discontinued" DEFAULT (0),  
GO
```

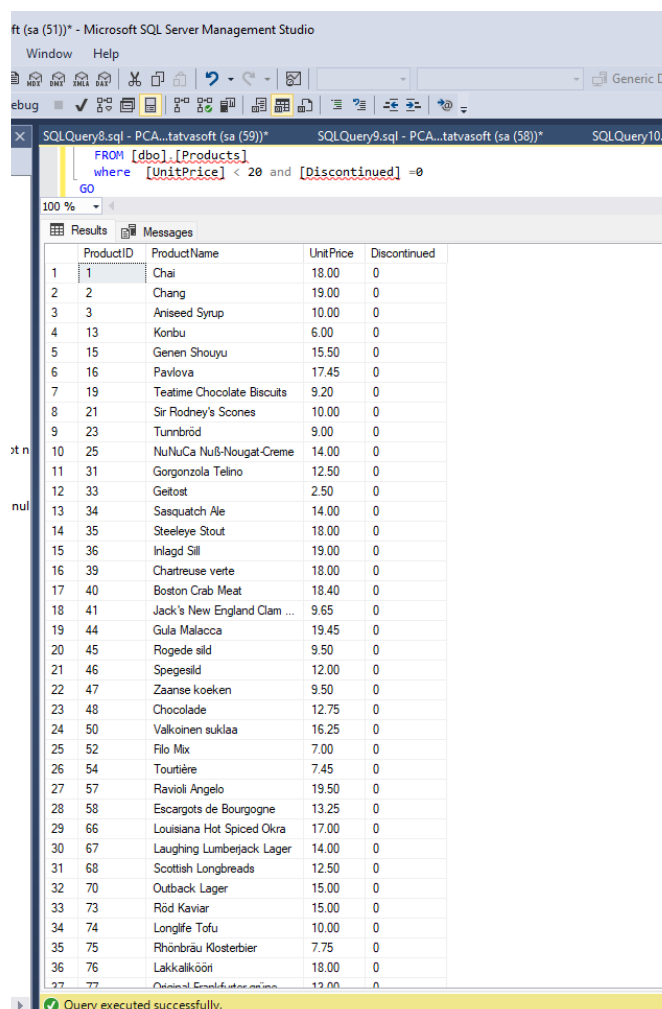
```
INSERT  
"Products"("ProductID","ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice",  
"UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued") VALUES(1,'Chai',1,1,'10 boxes x  
20 bags',18,39,0,10,0)
```

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

```
USE [assignment_tatvasoft]
GO
```

```
SELECT [ProductID]
      ,[ProductName]
      ,[UnitPrice],
      [Discontinued]

FROM [dbo].[Products]
where [UnitPrice] < 20 and [Discontinued] =0
GO
```



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

```
FROM [dbo].[Products]
where [UnitPrice] < 20 and [Discontinued] =0
GO
```

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

ProductID	ProductName	UnitPrice	Discontinued
1	Chai	18.00	0
2	Chang	19.00	0
3	Aniseed Syrup	10.00	0
4	Konbu	6.00	0
5	Genen Shouyu	15.50	0
6	Pavlova	17.45	0
7	Teatime Chocolate Biscuits	9.20	0
8	Sir Rodney's Scones	10.00	0
9	Tunnbröd	9.00	0
10	NuNuCa Nuß-Nougat-Creme	14.00	0
11	Gorgonzola Telino	12.50	0
12	Gelöst	2.50	0
13	Sasquatch Ale	14.00	0
14	Steeleye Stout	18.00	0
15	Inlagd Sill	19.00	0
16	Chartreuse verte	18.00	0
17	Boston Crab Meat	18.40	0
18	Jack's New England Clam ...	9.65	0
19	Gula Malacca	19.45	0
20	Rogede sild	9.50	0
21	Spegesild	12.00	0
22	Zaanse koeken	9.50	0
23	Chocolade	12.75	0
24	Valkoinen suklaa	16.25	0
25	Filo Mix	7.00	0
26	Tourtière	7.45	0
27	Ravioli Angelo	19.50	0
28	Escargots de Bourgogne	13.25	0
29	Louisiana Hot Spiced Okra	17.00	0
30	Laughing Lumberjack Lager	14.00	0
31	Scottish Longbreads	12.50	0
32	Outback Lager	15.00	0
33	Röd Kaviar	15.00	0
34	Longlife Tofu	10.00	0
35	Rhönbräu Klosterbier	7.75	0
36	Lakkalikööri	18.00	0
37	Querv...	12.00	0

A status bar at the bottom indicates 'Query executed successfully.'

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

USE [assignment_tatvasoft]

GO

SELECT [ProductID]

,[ProductName]

,[UnitPrice]

FROM [dbo].[Products]

where [UnitPrice] between 15 and 25

GO

The screenshot shows the Microsoft SQL Server Management Studio interface. The top toolbar includes icons for File, Edit, Format, Tools, and Query. The main window displays a SQL query in the 'SQLQuery8.sql' file. The query is as follows:

```
FROM [dbo].[Products]
where [UnitPrice] between 15 and 25
GO
```

Below the query editor, the 'Results' tab is active, showing a table with 25 rows of data. The table has three columns: ProductID, ProductName, and UnitPrice. The data is as follows:

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
4	Chef Anton's Cajun Seasoning	22.00
5	Chef Anton's Gumbo Mix	21.35
6	Grandma's Boysenberry Spread	25.00
11	Queso Cabrales	21.00
14	Tofu	23.25
15	Genen Shouyu	15.50
16	Pavlova	17.45
22	Gustaf's Knäckebröd	21.00
35	Steeleye Stout	18.00
36	Inlagd Sill	19.00
39	Chartreuse verte	18.00
40	Boston Crab Meat	18.40
44	Gula Malacca	19.45
49	Maxilaku	20.00
50	Valkoinen suklaa	16.25
55	Pâté chinois	24.00
57	Ravioli Angelo	19.50
65	Louisiana Fiery Hot Pepper S...	21.05
66	Louisiana Hot Spiced Okra	17.00
70	Outback Lager	15.00
71	Flotemysost	21.50
73	Röd Kaviar	15.00
76	Lakkalikööri	18.00

At the bottom of the window, a status bar indicates 'Query executed successfully.'

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

```
USE [assignment_tatvasoft]
```

```
GO
```

```
SELECT
```

```
    [ProductName]
```

```
    ,[UnitPrice]
```

```
FROM [dbo].[Products]
```

```
where [UnitPrice] > (select AVG([UnitPrice]) from [dbo].[Products])
```

```
GO
```

The screenshot displays the Microsoft SQL Server Management Studio interface. The top pane shows a SQL query in the 'SQLQuery9.sql' file. The query is as follows:

```
USE [assignment_tatvasoft]
GO

SELECT
    [ProductName]
    ,[UnitPrice]

FROM [dbo].[Products]
where [UnitPrice] > (select AVG([UnitPrice]) from [dbo].[Products])

GO
```

The bottom pane shows the 'Results' tab with a table containing 25 rows of product data. The table has two columns: 'ProductName' and 'UnitPrice'. The data is as follows:

	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	Camarvon 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

A status bar at the bottom indicates 'Query executed successfully.'

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

```
USE [assignment_tatvasoft]
GO
```

```
SELECT top 10
    [ProductName]
    ,[UnitPrice]
```

```
FROM [dbo].[Products]
order by [UnitPrice] desc
GO
```

The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery8.sql - PCA...tatvasoft (sa (59))*' and 'SQLQuery9.sql - PCA...tatva'. The active tab displays the following SQL query:

```
USE [assignment_tatvasoft]
GO

SELECT top 10
    [ProductName]
    ,[UnitPrice]
FROM [dbo].[Products]
order by [UnitPrice] desc
GO
```

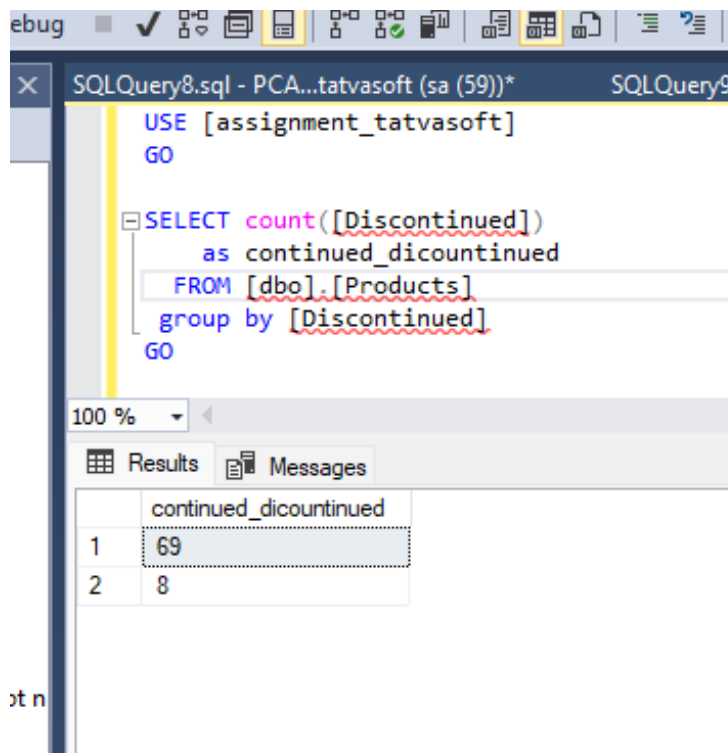
Below the query editor, the 'Results' tab is active, displaying a table with 10 rows and 2 columns: 'ProductName' and 'UnitPrice'. The results are ordered by 'UnitPrice' in descending order.

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

5. Write a query to count current and discontinued products

```
USE [assignment_tatvasoft]
GO
```

```
SELECT count([Discontinued])
       as continued_dicountinued
FROM [dbo].[Products]
group by [Discontinued]
GO
```



The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the following SQL query:

```
USE [assignment_tatvasoft]
GO

SELECT count([Discontinued])
       as continued_dicountinued
FROM [dbo].[Products]
group by [Discontinued]
GO
```

The bottom pane shows the results of the query in a table format. The table has two columns: an implicit index column and a column named 'continued_dicountinued'. The results are as follows:

	continued_dicountinued
1	69
2	8

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

than the quantity on order

USE [assignment_tatvasoft]

GO

SELECT

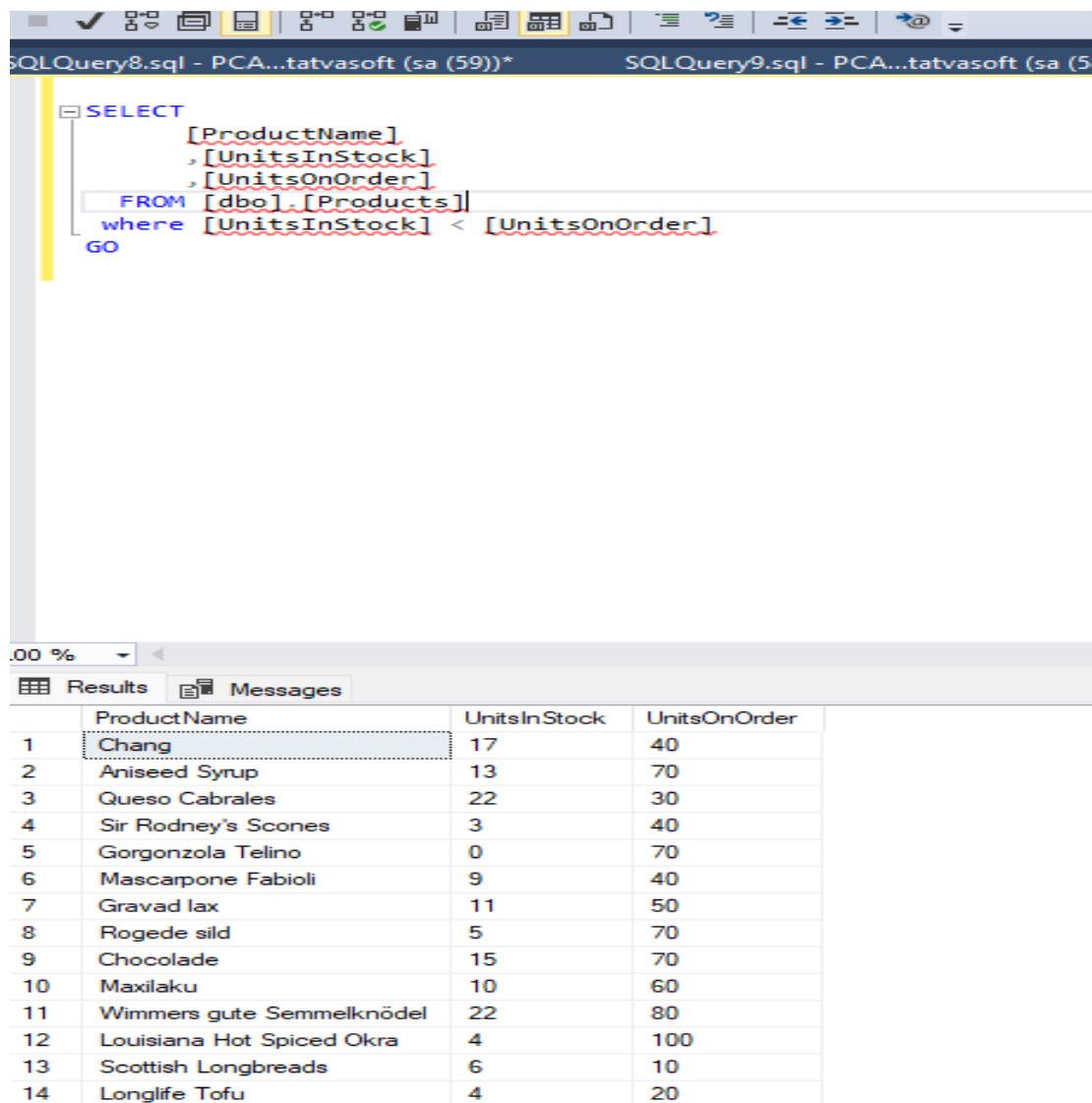
[ProductName]

,[UnitPrice]

FROM [dbo].[Products]

where [UnitPrice] > (select AVG([UnitPrice]) from [dbo].[Products])

GO



The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery8.sql - PCA...tatvasoft (sa (59))*' and 'SQLQuery9.sql - PCA...tatvasoft (sa (59))'. The active tab displays a SQL query in the query editor. The query is as follows:

```
SELECT
    [ProductName]
    , [UnitsInStock]
    , [UnitsOnOrder]
FROM [dbo].[Products]
where [UnitsInStock] < [UnitsOnOrder]
GO
```

Below the query editor, the 'Results' tab is selected, showing a table with 14 rows and 4 columns: 'Product Name', 'UnitsInStock', and 'UnitsOnOrder'. The first row is highlighted. The data is as follows:

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