

SQL ASSIGNMENT 1

1.

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'PCT78SQLSERVER2017 (SQL Server 14.0)'. The central pane shows a query window with the following SQL code:

```
-- 1. Write a query to get a Product list (id, name, unit price) where current products cost less than $20.  
select * from dbo.Products  
select ProductID, ProductName, UnitPrice from dbo.Products where UnitPrice < 20
```

The Results pane on the right displays the query output as a table with 39 rows and 3 columns: ProductID, ProductName, and UnitPrice. The data is as follows:

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
3	Aniseed Syrup	10.00
4	Korbu	6.00
5	Genen Shoyu	15.50
6	Pavlova	17.45
7	Tastee Chocolate Biscuits	9.20
8	Sr Rodney's Scones	10.00
9	Turnbrid	9.00
10	Guaraná Fantástica	4.50
11	NuLiCa NuLiCagat Creme	14.00
12	Gorgonzola Telino	12.50
13	Gelbst	2.50
14	Sasquatch Ale	14.00
15	Steeleye Stout	18.00
16	Hopfgill	19.00
17	Chateause veste	18.00
18	Boston Crab Meat	18.40
19	Jack's New England Clam Chowder	9.65
20	Singaporean Hokkien Fried Mee	14.00
21	Gula Malacca	19.45
22	Rogede ild	9.50
23	Spagetti	12.00
24	Zaarsen koken	9.50
25	Chocolade	12.75
26	Valkonen suklaa	16.25
27	Fika Maa	7.00
28	Tonkuri	7.45
29	Ravioli Angelo	19.50
30	Escargots de Bourgogne	13.25
31	Louisiana Hot Spiced Okra	17.00
32	Laughing Lumberjack Lager	14.00
33	Scottish Longlands	12.50
34	Outback Lager	15.00
35	Röd Kavvar	15.00
36	Linnella Trilo	10.00

2.

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'PCT78SQLSERVER2017 (SQL Server 14.0)'. The central pane shows a query window with the following SQL code:

```
-- 2. Write a query to get Product list (id, name, unit price) where products cost between $15 and $25  
select ProductID, ProductName, UnitPrice from dbo.Products where UnitPrice between 15 and 25
```

The Results pane on the right displays the query output as a table with 25 rows and 3 columns: ProductID, ProductName, and UnitPrice. The data is as follows:

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
3	Chef Anton's Cajun Seasoning	22.00
4	Chef Anton's Gumbo Mix	21.35
5	Grandma's Boysenberry Spread	25.00
6	Queso Cabrales	21.00
7	Tofu	23.25
8	Genen Shoyu	15.50
9	Pavlova	17.45
10	Gustaf's Knackebredd	21.00
11	Steeleye Stout	18.00
12	Hopfgill	19.00
13	Chateause veste	18.00
14	Boston Crab Meat	18.40
15	Gula Malacca	19.45
16	Manikau	20.00
17	Valkonen suklaa	16.25
18	Pikett chinos	24.00
19	Ravioli Angelo	19.50
20	Louisiana Remy Hot Pepper Sauce	21.05
21	Louisiana Hot Spiced Okra	17.00
22	Outback Lager	15.00
23	Rotempost	21.50
24	Röd Kavvar	15.00
25	Lakkalikön	18.00

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3.

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 SQL query window with the following query:

```
-- 3. Write a query to get Product list (name, unit price) of above average price.
select ProductName, UnitPrice from dbo.Products where UnitPrice > ( select avg(UnitPrice) from dbo.Products)
```

The query results are displayed in a table with two columns: ProductName and UnitPrice. The results are as follows:

ProductName	UnitPrice
Uncle Bob's Organic Dried Pears	30.00
Northwoods Cranberry Sauce	40.00
Mahy Kobé Ikuu	97.00
Ikuu	31.00
Queso Manchego La Pastora	38.00
Alice Mutton	29.00
Camaron Tigris	62.50
Sr Rodney's Marmalade	81.00
Gumbär Gumbärlchen	31.23
Schoggi Schokolade	43.90
Rössle Sauerkraut	45.60
Thüringer Rostbratwurst	123.79
Mascarpone Faboli	32.00
Côte de Baye	263.50
Iroh Coffee	46.00
Marysup Dried Apples	53.00
Petit Pastilles	32.80
Gnocchi di nonna Alice	38.00
Raclette Courvaux	55.00
Camembert Pierrot	34.00
Tate au sucre	49.30
Vegete-spread	43.90
Wimmers gute Semmelknödel	33.25
Goutenendaboune	36.00
Mozzarella di Giovanni	34.80

4.

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 SQL query window with the following query:

```
-- 4. Write a query to get Product list (name, unit price) of ten most expensive products
select top 10 ProductName, UnitPrice from dbo.Products order by UnitPrice DESC
```

The query results are displayed in a table with two columns: ProductName and UnitPrice. The results are as follows:

ProductName	UnitPrice
Côte de Baye	263.50
Thüringer Rostbratwurst	123.79
Mahy Kobé Ikuu	97.00
Sr Rodney's Marmalade	81.00
Camaron Tigris	62.50
Raclette Courvaux	55.00
Marysup Dried Apples	53.00
Tate au sucre	49.30
Iroh Coffee	46.00
Rössle Sauerkraut	45.60

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5.

The screenshot shows the 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 code:

```
-- 5. Write a query to count current and discontinued products
select count(ProductName) as 'current and discontinued'
from dbo.Products
group by Discontinued
```

The 'Results' pane displays the following data:

	current and discontinued
1	69
2	8

The status bar at the bottom indicates 'Query executed successfully.' and 'PCT78\SQLENTSERVER2017 (14.0 RTM) sa (53) Northwind 00:00:00 2 rows'.

6.

The screenshot shows the 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 code:

```
-- 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, UnitsOnOrder, UnitsInStock
from dbo.Products
where UnitsInStock < UnitsOnOrder
```

The 'Results' pane displays the following data:

	ProductName	UnitsOnOrder	UnitsInStock
1	Chang	40	17
2	Aniseed Syrup	70	13
3	Que Pasa Cabernet	30	22
4	Dr. Pibb's Soda	40	3
5	Gorgonzola Telino	70	0
6	Mascarpone Faboli	40	9
7	Gravad lax	50	11
8	Pijlske and	70	5
9	Chocolade	70	15
10	Masilaku	60	10
11	Winnere gute Semmelknödel	80	22
12	Louisiana Hot Spiced Okra	100	4
13	Scottish Longheads	10	6
14	Longlife Tofu	20	4

The status bar at the bottom indicates 'Query executed successfully.' and 'PCT78\SQLENTSERVER2017 (14.0 RTM) sa (53) Northwind 00:00:00 14 rows'.