

SQL ASSIGNMENT 1

1.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'PC1411\SQL2017 (SQL Server 14.0.1000)'. The central pane shows a query window with the following SQL code:

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

The query results are displayed in a table with 39 rows. The columns are ProductID, ProductName, and UnitPrice. The status bar at the bottom indicates 'Query executed successfully.' and 'PC1411\SQL2017 (14.0 RTM) sa (53) Northwind 00:00:00 39 rows'.

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
3	Aniseed Syrup	10.00
4	Korbu	6.00
5	Garden of Eatin'	15.50
6	Pavlova	17.45
7	Teatime Chocolate Biscuits	9.20
8	Sir Rodney's Scones	10.00
9	Turkey	9.00
10	Garden of Eatin'	4.50
11	NuNuCa Nuß-Nougat-Creme	14.00
12	Gorgonzola Telino	12.50
13	Gustaf	2.50
14	Sequoia	14.00
15	Steeleye Stout	18.00
16	Ikigai Sill	19.00
17	Chateau d'Aube	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 Melacca	19.45
22	Raspberries	9.50
23	Spekial	12.00
24	Zaarsen koeken	9.50
25	Chocolade	12.75
26	Valkuinen suklaa	16.25
27	Fiji Ma	7.00
28	Toutle	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 Longbreads	12.50
34	Outback Lager	15.00
35	Rid Kauer	15.00
36	Longlife Tofu	10.00

2.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'PC1411\SQL2017 (SQL Server 14.0.1000)'. 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 query results are displayed in a table with 25 rows. The columns are ProductID, ProductName, and UnitPrice. The status bar at the bottom indicates 'Query executed successfully.' and 'PC1411\SQL2017 (14.0 RTM) sa (53) Northwind 00:00:00 25 rows'.

ProductID	ProductName	UnitPrice
1	Chai	18.00
2	Chang	19.00
3	Chai Anton's Cajun Seasoning	22.00
4	Chai Anton's Gumbo Mix	21.35
5	Grandma's Boysenberry Spread	25.00
6	Que Pasa	21.00
7	Tofu	23.25
8	Garden of Eatin'	15.50
9	Pavlova	17.45
10	Gustaf's Knishkebrid	21.00
11	Steeleye Stout	18.00
12	Ikigai Sill	19.00
13	Chateau d'Aube	18.00
14	Boston Crab Meat	18.40
15	Gula Melacca	19.45
16	Masala	20.00
17	Valkuinen suklaa	16.25
18	Pâte chinos	24.00
19	Ravioli Angelo	19.50
20	Louisiana Hot Pepper Sauce	21.05
21	Louisiana Hot Spiced Okra	17.00
22	Outback Lager	15.00
23	Rid Kauer	21.50
24	Rid Kauer	15.00
25	Lakkaikion	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 central 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 right pane shows the 'Properties' window for the connection. The 'Current connection parameters' tab is active, displaying details for the connection to 'PC141\SQL2017 (sa)'.

Property	Value
Connection name	PC141\SQL2017 (sa)
Connection details	
Connection elapsed	00:00:00.047
Connection encrypt	Not encrypted
Connection finish	03-02-2023 14:38:45
Connection rows	25
Connection start	03-02-2023 14:38:45
Connection state	Open
Display name	PC141\SQL2017
Login name	sa
Server name	PC141\SQL2017
Server version	14.0.1000
Session tracing ID	SPID
SPID	53

The bottom status bar indicates the query was executed successfully, returning 25 rows.

4.

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 two queries:

```
-- 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;

-- 5. Write a query to count current and discontinued products
```

The right pane shows the 'Properties' window for the connection. The 'Current connection parameters' tab is active, displaying details for the connection to 'PC141\SQL2017 (sa)'.

Property	Value
Connection name	PC141\SQL2017 (sa)
Connection details	
Connection elapsed	00:00:00.094
Connection encrypt	Not encrypted
Connection finish	03-02-2023 14:38:59
Connection rows	10
Connection start	03-02-2023 14:38:59
Connection state	Open
Display name	PC141\SQL2017
Login name	sa
Server name	PC141\SQL2017
Server version	14.0.1000
Session tracing ID	SPID
SPID	53

The bottom status bar indicates the query was executed successfully, returning 10 rows.

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5.

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 code:

```
-- 5. Write a query to count current and discontinued products
SELECT COUNT(ProductName) as 'Current & Discontinued Products'
FROM dbo.Products
GROUP BY Discontinued;
```

The 'Results' pane shows the output of the query:

Current & Discontinued Products
8

The right pane shows the 'Properties' window for the connection, displaying details such as 'Connection name', 'Connection details', and 'Connection state'.

6.

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 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 shows the output of the query:

ProductName	UnitsOnOrder	UnitsInStock
Chang	40	17
Aniseed Syrup	70	13
Quepasa Cakes	30	22
Sir Rodney's Scones	40	3
Garganola Tekno	70	0
Mascarpone Fabboli	40	9
Grand Ice	50	11
Rogede sld	70	5
Chocolate	70	15
Mavilaku	40	10
Wittens gute Semmelknodel	80	22
Louisiana Hot Spiced Okra	100	4
Scottish Longheads	10	6
LongLife Tofu	20	4

The right pane shows the 'Properties' window for the connection, displaying details such as 'Connection name', 'Connection details', and 'Connection state'.