

Assignment-1

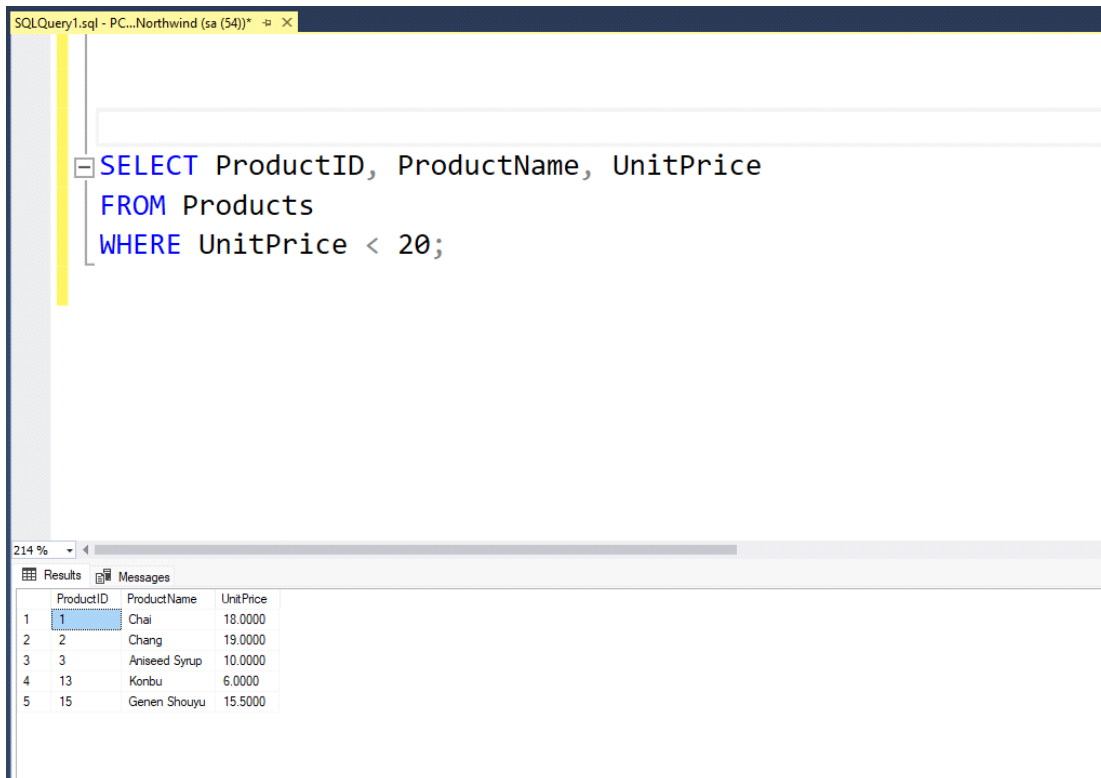
Simple SQL Query with a single table with where clause

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 Products

WHERE UnitPrice < 20;



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL query:

```
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE UnitPrice < 20;
```

The results pane displays the following data:

	ProductID	ProductName	UnitPrice
1	1	Chai	18.0000
2	2	Chang	19.0000
3	3	Aniseed Syrup	10.0000
4	13	Konbu	6.0000
5	15	Genen Shouyu	15.5000

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

SELECT ProductID, ProductName, UnitPrice

FROM Products

WHERE UnitPrice BETWEEN 15 AND 25;

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL query:

```
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE UnitPrice BETWEEN 15 AND 25;
```

The results pane displays the following data:

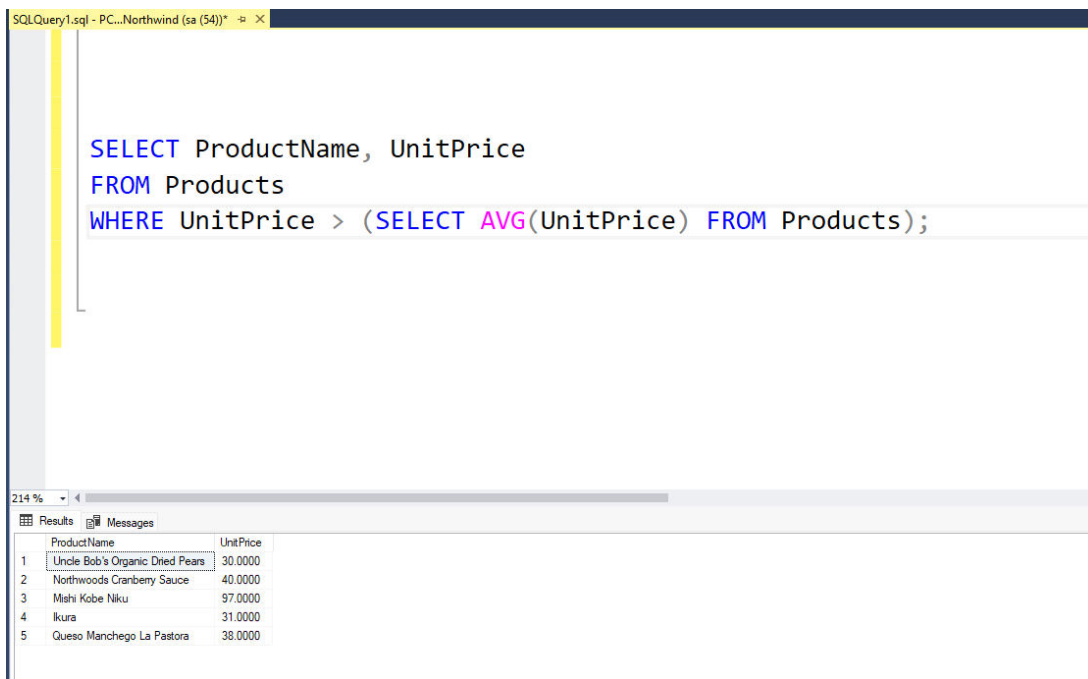
	ProductID	ProductName	UnitPrice
1	1	Chai	18.0000
2	2	Chang	19.0000
3	4	Chef Anton's Cajun Seasoning	22.0000
4	5	Chef Anton's Gumbo Mix	21.3500
5	6	Grandma's Boysenberry Spread	25.0000
6	11	Queso Cabrales	21.0000
7	14	Tofu	23.2500
8	15	Genen Shouyu	15.5000

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

```
SELECT ProductName, UnitPrice
```

```
FROM Products
```

```
WHERE UnitPrice > (SELECT AVG(UnitPrice) FROM Products);
```



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL query:

```
SELECT ProductName, UnitPrice
FROM Products
WHERE UnitPrice > (SELECT AVG(UnitPrice) FROM Products);
```

The results pane displays the output of the query, showing a list of products with their names and unit prices. The results are as follows:

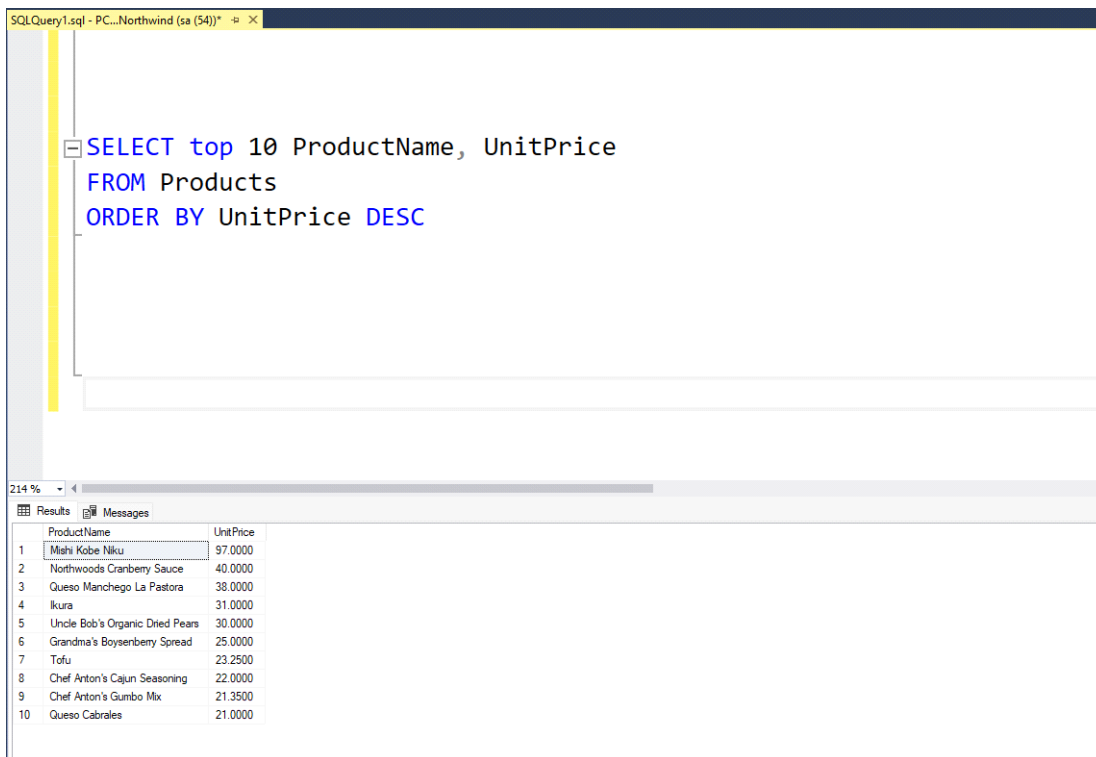
	ProductName	UnitPrice
1	Uncle Bob's Organic Dried Pears	30.0000
2	Northwoods Cranberry Sauce	40.0000
3	Mishi Kobe Niku	97.0000
4	Ikura	31.0000
5	Queso Manchego La Pastora	38.0000

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

SELECT top 10 ProductName, UnitPrice

FROM Products

ORDER BY UnitPrice **DESC**



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL query:

```
SELECT top 10 ProductName, UnitPrice
FROM Products
ORDER BY UnitPrice DESC
```

The results pane displays the top 10 most expensive products from the Products table, ordered by UnitPrice in descending order. The results are as follows:

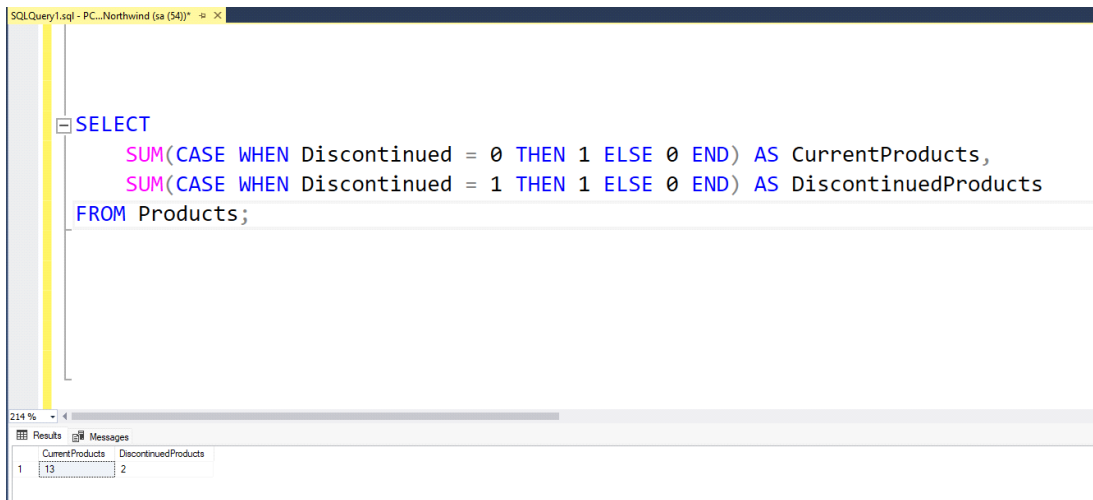
	ProductName	UnitPrice
1	Mishi Kobe Niku	97.0000
2	Northwoods Cranberry Sauce	40.0000
3	Queso Manchego La Pastora	38.0000
4	Ikura	31.0000
5	Uncle Bob's Organic Dried Pears	30.0000
6	Grandma's Boysenberry Spread	25.0000
7	Tofu	23.2500
8	Chef Anton's Cajun Seasoning	22.0000
9	Chef Anton's Gumbo Mix	21.3500
10	Queso Cabrales	21.0000

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

SELECT

```
SUM(CASE WHEN Discontinued = 0 THEN 1 ELSE 0 END) AS CurrentProducts,  
SUM(CASE WHEN Discontinued = 1 THEN 1 ELSE 0 END) AS DiscontinuedProducts
```

FROM Products;

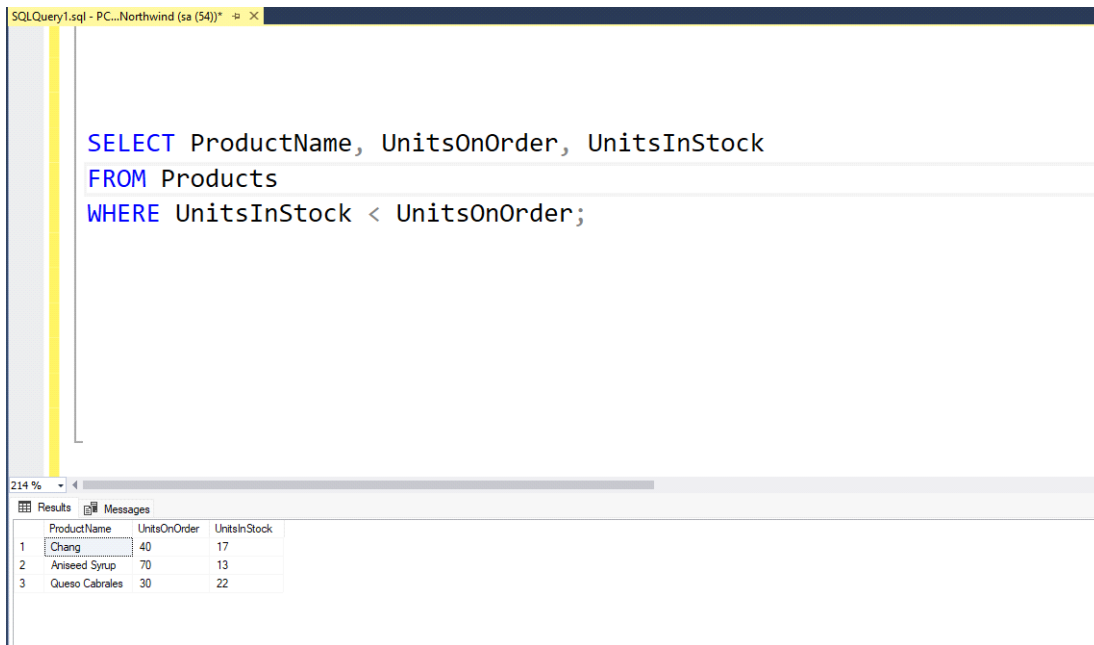


6. Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order.

SELECT ProductName, UnitsOnOrder, UnitsInStock

FROM Products

WHERE UnitsInStock < UnitsOnOrder;



The screenshot shows a SQL Server Enterprise Manager window with a query editor and a results pane. The query editor contains the following SQL query:

```
SELECT ProductName, UnitsOnOrder, UnitsInStock
FROM Products
WHERE UnitsInStock < UnitsOnOrder;
```

The results pane displays the following data:

	ProductName	UnitsOnOrder	UnitsInStock
1	Chang	40	17
2	Aniseed Syrup	70	13
3	Queso Cabrales	30	22