SQL ASSIGNMENT - 1

Creating table named **products**

```
use Northwind;
Create Table Products (
  ProductID int primary key identity(1,1),
  ProductName nvarchar(100) NOT NULL,
  SupplierID  int NOT NULL,
  CategoryID int NOT NULL,
  QuantityPerUnit nvarchar(20) NOT NULL,
  UnitPrice int NOT NULL default 0,
  UnitsInStock int NOT NULL default 0,
  UnitsOnOrder int NOT NULL default 0,
  ReorderLevel int NOT NULL default 0,
  Discontinued nvarchar(5) NOT NULL default 'NO'

)
```

```
select * from Products
```

% ▼ ◄

Results	Messages

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued

Inserting data into Created Table

```sql
INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Santoor Soap',8,4,'1 kg pkg.',21,22,30,30,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Pears soap',5,4,'10 - 500 g pkgs.',38,86,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Dabur hair Oil',6,8,'2 kg box',6,24,0,5,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Headphone',6,7,'40 - 100 g pkgs.',23,35,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('TATA Salt',6,2,'24 - 250 ml bottles',15,39,0,5,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Ginger',7,3,'32 - 500 g boxes',17.45,29,0,10,'YES')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Water Bottle',7,6,'20 - 1 kg tins',39,0,0,0,'YES')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Tigers bam',7,8,'16 kg pkg.',62,42,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('Parle Chocolate Biscuits',8,3,'10 boxes x 12 pieces',9,25,0,5,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
    VALUES('red boxes',8,3,'30 gift boxes',81,40,0,0,'NO')
```

```
INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Rice',8,3,'24 pkgs. x 4 pieces',10,3,40,5,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('mug Dal',9,5,'24 - 500 g pkgs.',21,104,0,25,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Turmeric',9,5,'12 - 250 g pkgs.',9,61,0,25,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('red bull',10,1,'12 - 355 ml cans',45,20,0,0,'YES')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Cream',11,3,'20 - 450 g glasses',14,76,0,30,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('tuver dal',11,3,'100 - 250 g bags',31,15,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('water bag',11,3,'100 - 100 g pieces',43,49,0,30,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('jeera',12,7,'25 - 825 g cans',45.6,26,0,0,'YES')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('school bag',12,6,'50 bags x 30 sausgs.',123,0,0,0,'YES')
```

```
INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('powder',19,8,'12 - 12 oz cans',9,85,0,10,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('French fries',20,5,'32 - 1 kg pkgs.',14,26,0,0,'YES')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Mocha Coffee',20,1,'16 - 500 g tins',46,17,10,25,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Capachino',20,2,'20 - 2 kg bags',19,27,0,15,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Wagh bakri TEa',21,8,'1k pkg.',9,5,70,15,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Orange Drinks',21,8,'4 - 450 g glasses',12,95,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Red wine',22,3,'10 - 4 oz boxes',9,36,0,0,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Chocolate',22,3,'10 pkgs.',12,15,70,25,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Kurkure',23,3,'24 - 50 g pkgs.',20,10,60,15,'NO')

INSERT "Products"("ProductName","SupplierID","CategoryID","QuantityPerUnit","UnitPrice","UnitsInStock","UnitsOnOrder","ReorderLevel","Discontinued")
     VALUES('Pasta',23,3,'12 - 100 g bars',16,65,0,30,'NO')
```

Viewing the Inserted Data:

```
select * from Products
```

100 %

Results | Messages

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	1	Santoor Soap	8	4	1 kg pkg.	21	22	30	30	NO
2	2	Pears soap	5	4	10 - 500 g pkgs.	38	86	0	0	NO
3	3	Dabur hair Oil	6	8	2 kg box	6	24	0	5	NO
4	4	Headphone	6	7	40 - 100 g pkgs.	23	35	0	0	NO
5	5	TATA Salt	6	2	24 - 250 ml bottles	15	39	0	5	NO
6	6	Ginger	7	3	32 - 500 g boxes	17	29	0	10	YES
7	7	Water Bottle	7	6	20 - 1 kg tins	39	0	0	0	YES
8	8	Tigers bam	7	8	16 kg pkg.	62	42	0	0	NO
9	9	Parle Choc...	8	3	10 boxes x 12 pi...	9	25	0	5	NO
10	10	red boxes	8	3	30 gift boxes	81	40	0	0	NO
11	11	Rice	8	3	24 pkgs. x 4 pie...	10	3	40	5	NO
12	12	mug Dal	9	5	24 - 500 g pkgs.	21	104	0	25	NO
13	13	Turmeric	9	5	12 - 250 g pkgs.	9	61	0	25	NO
14	14	red bull	10	1	12 - 355 ml cans	45	20	0	0	YES
15	15	Cream	11	3	20 - 450 g glasses	14	76	0	30	NO
16	16	tuver dal	11	3	100 - 250 g bags	31	15	0	0	NO
17	17	water bag	11	3	100 - 100 g piec...	43	49	0	30	NO
18	18	jeera	12	7	25 - 825 g cans	45	26	0	0	YES
19	19	school bag	12	6	50 bags x 30 sa...	123	0	0	0	YES
20	20	tuffan glass	13	8	10 - 200 g glasses	25	10	0	15	NO
21	21	powder	19	8	12 - 12 oz cans	9	85	0	10	NO
22	22	French fries	20	5	32 - 1 kg pkgs.	14	26	0	0	YES
23	23	Mocha Coff...	20	1	16 - 500 g tins	46	17	10	25	NO
24	24	Capachino	20	2	20 - 2 kg bags	19	27	0	15	NO
25	25	Wagh bakri...	21	8	1k pkg.	9	5	70	15	NO
26	26	Orange Drin...	21	8	4 - 450 g glasses	12	95	0	0	NO
27	27	Red wine	22	3	10 - 4 oz boxes	9	36	0	0	NO
28	28	Chocolate	22	3	10 pkgs.	12	15	70	25	NO
29	29	Kurkure	23	3	24 - 50 g pkgs.	20	10	60	15	NO
30	30	Pasta	23	3	12 - 100 g bars	16	65	0	30	NO

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 AND Discontinued = 'NO'


select ProductId,ProductName,UnitPrice
```

100 %

Results Messages

	ProductId	ProductName	UnitPrice
1	3	Dabur hair Oil	6
2	5	TATA Salt	15
3	9	Parle Chocolate Biscuits	9
4	11	Rice	10
5	13	Turmeric	9
6	15	Cream	14
7	21	powder	9
8	24	Capachino	19
9	25	Wagh bakri TEa	9
10	26	Orange Drinks	12
11	27	Red wine	9
12	28	Chocolate	12
13	30	Pasta	16

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

```sql
select ProductId,ProductName,UnitPrice
from Products
where UnitPrice Between 15 AND 25
```

100 %

Results   Messages

	ProductId	ProductName	UnitPrice
1	1	Santoor Soap	21
2	4	Headphone	23
3	5	TATA Salt	15
4	6	Ginger	17
5	12	mug Dal	21
6	20	tuffan glass	25
7	24	Capachino	19
8	29	Kurkure	20
9	30	Pasta	16

-->

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

```sql
select ProductName,UnitPrice
 from Products
 where UnitPrice > (select AVG(UnitPrice) from Products )
```

100 %

▦ Results ▥ Messages

	ProductName	UnitPrice
1	Pears soap	38
2	Water Bottle	39
3	Tigers bam	62
4	red boxes	81
5	red bull	45
6	tuver dal	31
7	water bag	43
8	jeera	45
9	school bag	123
10	Mocha Coffee	46

-->

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

```sql
select  top 10 ProductName,UnitPrice
from Products
order by UnitPrice DESC
```
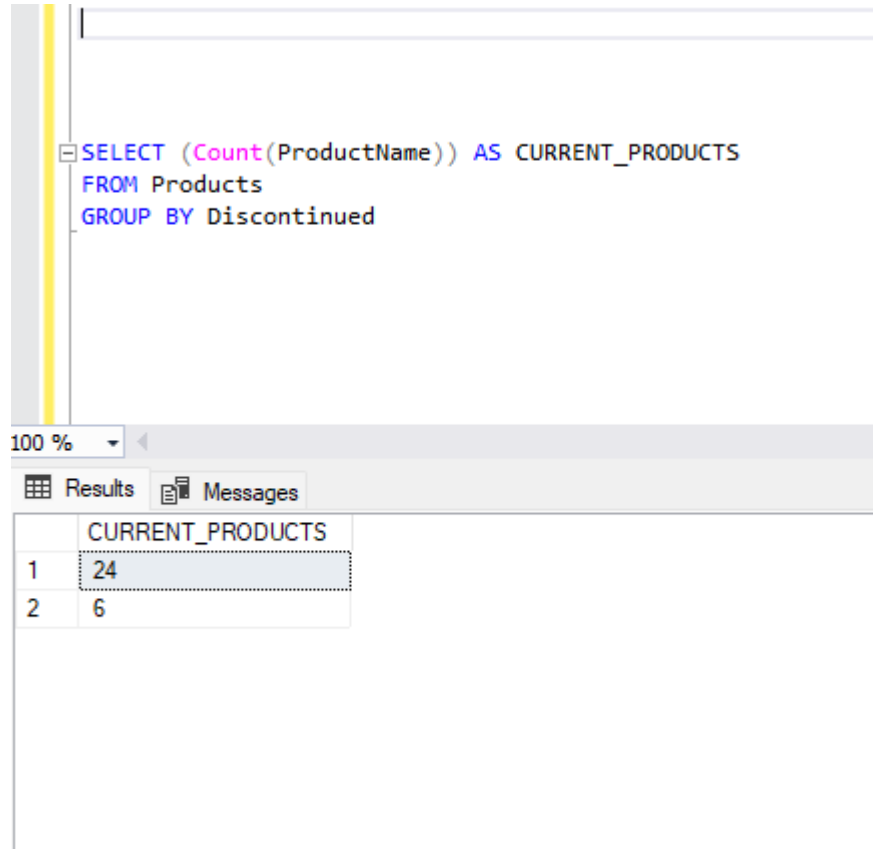
100 %

Results   Messages

	ProductName	UnitPrice
1	school bag	123
2	red boxes	81
3	Tigers bam	62
4	Mocha Coffee	46
5	red bull	45
6	jeera	45
7	water bag	43
8	Water Bottle	39
9	Pears soap	38
10	tuver dal	31

-->

5. Write a query to count current and discontinued products

-->

```
SELECT (Count(ProductName)) AS CURRENT_PRODUCTS
FROM Products
GROUP BY Discontinued
```

100 %

Results   Messages

	CURRENT_PRODUCTS
1	24
2	6

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

```sql
select ProductName,UnitsOnOrder,UnitsInStock
from Products
where UnitsOnOrder>UnitsInStock
```

100 %

Results | Messages

	ProductName	UnitsOnOrder	UnitsInStock
1	Santoor Soap	30	22
2	Rice	40	3
3	Wagh bakri TEa	70	5
4	Chocolate	70	15
5	Kurkure	60	10