

Assignment 1

Simple SQL Query with a single table with where clause

DataBase Setup and Records of Products Table

```
-- Create New Database --

create database Northwind;

-- Switch to our Database--
use Northwind;

-- Create Table --
create table Products(
    ProductID int primary key NOT NULL identity,
    ProductName varchar(200) NOT NULL,
    SupplierID int NULL,
    CategoryID int NULL,
    QuantityPerUnit nvarchar (20) NULL,
    UnitPrice money NULL DEFAULT(0),
    UnitsInStock smallint NULL DEFAULT(0),
    UnitsOnOrder smallint NULL DEFAULT(0),
    ReorderLevel smallint NULL DEFAULT(0),
    Discontinued bit NOT NULL DEFAULT(0),
)

--Display Table--
select * from Products;
```

```
--INSERT DATA INTO PRODUCTS --
insert into Products(
    "ProductName",
    "SupplierID",
    "CategoryID",
    "QuantityPerUnit",
    "UnitPrice",
    "UnitsInStock",
    "UnitsOnOrder",
    "ReorderLevel",
    "Discontinued")
VALUES(
    'Chai',1,1,
    '10 boxes x 20 bags',
    18,39,0,10,0);

insert into Products
VALUES(
    'Chang',
    1,1,
    '24 - 12 oz bottles',
    19,17,40,25,0);

insert into Products
VALUES(
    'Aniseed Syrup',1,2,'12 - 550 ml bottles',10,13,70,25,0);

insert into Products
VALUES(
    'Chef Anton''s Cajun Seasoning',2,2,'48 - 6 oz jars',22,53,0,0,0);

insert into Products
VALUES(
    'Chef Anton''s Gumbo Mix',2,2,'36 boxes',21.35,0,0,0,1);

insert into Products
VALUES(
    'Grandma''s Boysenberry Spread',3,2,'12 - 8 oz jars',25,120,0,25,0);
```

--Display Table--

select * from Products;

SQLQuery1.sql - PC...Northwind (sa (65))

100 %

Results Messages

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	1	Chai	1	1	10 boxes x 20 bags	18.00	39	0	10	0
2	2	Chang	1	1	24 - 12 oz bottles	19.00	17	40	25	0
3	3	Chai	1	1	10 boxes x 20 bags	18.00	39	0	10	0
4	4	Chang	1	1	24 - 12 oz bottles	19.00	17	40	25	0
5	5	Aniseed Syrup	1	2	12 - 550 ml bottles	10.00	13	70	25	0
6	6	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.00	53	0	0	0
7	7	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35	0	0	0	1
8	8	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.00	120	0	25	0
9	9	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30.00	15	0	10	0
10	10	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.00	6	0	0	0
11	11	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.00	29	0	0	1
12	12	Ikura	4	8	12 - 200 ml jars	31.00	31	0	0	0
13	13	Queso Cabrales	5	4	1 kg pkg.	21.00	22	30	30	0
14	14	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38.00	86	0	0	0
15	15	Konbu	6	8	2 kg box	6.00	24	0	5	0
16	16	Tofu	6	7	40 - 100 g pkgs.	23.25	35	0	0	0
17	17	Genen Shouyu	6	2	24 - 250 ml bottles	15.50	39	0	5	0
18	18	Original Frankfurter grüne Soße	12	2	12 boxes	13.00	32	0	15	0
19	19	Genen Shouyu	6	2	24 - 250 ml bottles	15.50	39	0	5	0
20	20	Lakkalikööri	23	1	500 ml	18.00	57	0	20	0
21	21	Rhönbräu Klosterbier	12	1	24 - 0.5 l bottles	7.75	125	0	25	0
22	22	Longlife Tofu	4	7	5 kg pkg.	10.00	4	20	5	0
23	23	Röd Kaviar	17	8	24 - 150 g jars	15.00	101	0	5	0
24	24	Mozzarella di Giovanni	14	4	24 - 200 g pkgs.	34.80	0	0	0	0
25	25	Flotemysost	15	4	10 - 500 g pkgs.	21.50	0	0	0	0
26	26	Outback Lager	7	1	24 - 355 ml bottles	15.00	15	10	30	0
27	27	Gudbrandsdalsost	15	4	10 kg pkg.	36.00	26	0	15	0

-- Assignment QUE - 01 --

```
select ProductID, UnitPrice from Products
where UnitPrice <= 20;
```

Results Messages

	ProductID	UnitPrice
1	1	18.00
2	2	19.00
3	3	18.00
4	4	19.00
5	5	10.00
6	15	6.00
7	17	15.50
8	18	13.00
9	19	15.50
10	20	18.00
11	21	7.75
12	22	10.00
13	23	15.00
14	26	15.00

```
-- Assignment QUE - 02 --
select ProductID, ProductName, UnitPrice from Products
where UnitPrice
between 15 and 25;
```

	ProductID	ProductName	UnitPrice
1	1	Chai	18.00
2	2	Chang	19.00
3	3	Chai	18.00
4	4	Chang	19.00
5	6	Chef Anton's Cajun Seasoning	22.00
6	7	Chef Anton's Gumbo Mix	21.35
7	8	Grandma's Boysenberry Spr...	25.00
8	13	Queso Cabrales	21.00
9	16	Tofu	23.25
10	17	Genen Shouyu	15.50
11	19	Genen Shouyu	15.50
12	20	Lakkaliköör	18.00
13	23	Röd Kaviar	15.00
14	25	Flotemysost	21.50
15	26	Outback Lager	15.00

```
-- Assignment QUE - 03 --
select Productname, UnitPrice from Products
where UnitPrice = (select avg(UnitPrice) from Products);
```

```
-- Assienment OUE - 04 --
```

	AVG_UP
1	15.00
2	15.00
3	15.50
4	18.00
5	18.00
6	19.00
7	21.00
8	21.35
9	21.50
10	22.00
11	23.25
12	25.00

```
-- Assignment QUE - 04 --
select count(ProductName)
from Products
group by Discontinued;
```

	Product_Price	UnitPrice
1	Chef Anton's Cajun Seasoning	22.00
2	Tofu	23.25
3	Grandma's Boysenberry Spread	25.00
4	Uncle Bob's Organic Dried Pears	30.00
5	Ikura	31.00
6	Mozzarella di Giovanni	34.80
7	Gudbrandsdalsost	36.00
8	Queso Manchego La Pastora	38.00
9	Northwoods Cranberry Sauce	40.00
10	Mishi Kobe Niku	97.00

```
-- Assignment QUE - 05 --
select count(ProductName)
from Products
group by Discontinued;
```

	(No column name)
1	25
2	2

```
-- Assignment QUE - 06 --
select ProductName, UnitsOnOrder , UnitsInStock
from Products
where ((UnitsInStock)<UnitsOnOrder));
```

Results		Messages	
	ProductName	UnitsOnOrder	UnitsInStock
1	Chang	40	17
2	Chang	40	17
3	Aniseed Syrup	70	13
4	Queso Cabrales	30	22
5	Longlife Tofu	20	4