

Assignment:-1

Simple SQL Query with a single table with where clause.

Northwind database Sample table :

- Products
- ProductID
- ProductName
- SupplierID
- CategoryID
- QuantityPerUnit
- UnitPrice
- UnitsInStock
- UnitsOnOrder
- ReorderLevel
- Discontinued

Database:-

✓ Showing rows 0 - 21 (22 total, Query took 0.0012 sec)

SELECT * FROM 'products'

Number of rows: 25

Sort by key: None

+ Options

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
<input type="checkbox"/> Edit Copy Delete	1	bottle	1001	5001	20	50000	20	5	3	0
<input type="checkbox"/> Edit Copy Delete	2	chess	1002	5002	25	2000	55	12	4	0
<input type="checkbox"/> Edit Copy Delete	3	book	1003	5003	14	10000	12	14	1	1
<input type="checkbox"/> Edit Copy Delete	4	phone	1004	5004	56	660000	20	65	4	1
<input type="checkbox"/> Edit Copy Delete	5		0	0	45	0	40	32	45	1
<input type="checkbox"/> Edit Copy Delete	6	Penbox	1006	5006	78	100	42	123	45	1
<input type="checkbox"/> Edit Copy Delete	7	notepad	1007	5007	45	30	42	75	78	1
<input type="checkbox"/> Edit Copy Delete	8	keyboard	1008	5008	87	350	20	46	1	0
<input type="checkbox"/> Edit Copy Delete	9	Jacket	1009	5009	21	1000	42	25	100	1
<input type="checkbox"/> Edit Copy Delete	10	Moniter	1010	5010	45	3450	50	142	5	0
<input type="checkbox"/> Edit Copy Delete	11	Headphone	1011	5011	45	5000	56	10	4	1
<input type="checkbox"/> Edit Copy Delete	12	Gulanjamun	1012	5012	50	250	500	86	89	1
<input type="checkbox"/> Edit Copy Delete	13	Fan	1013	5013	65	10000	45	12	7	0
<input type="checkbox"/> Edit Copy Delete	14	Savlon Cream	1014	5014	125	50	875	12	12	0
<input type="checkbox"/> Edit Copy Delete	15	Lifeboy	1015	5012	12	70	45	14	44	1
<input type="checkbox"/> Edit Copy Delete	16	Mobile Cover	1016	5016	42	100	980	124	4	0
<input type="checkbox"/> Edit Copy Delete	17	NULL	NULL	NULL	424	NULL	1	1	1	1
<input type="checkbox"/> Edit Copy Delete	18	Wires	NULL	NULL	535	1000	45	4	4	0
<input type="checkbox"/> Edit Copy Delete	19	AC	1019	5019	22	50050	42	54	14	0
<input type="checkbox"/> Edit Copy Delete	20	Bike	NULL	5020	54	90000	20	12	7	1
<input type="checkbox"/> Edit Copy Delete	21	watch	NULL	NULL	424	NULL	424	43	10	1
<input type="checkbox"/> Edit Copy Delete	22	NULL	NULL	NULL	0	NULL	0	0	0	0

1. Write a query to get a Product list (id, name, unit price) where current products cost less than \$200.

```
SELECT `ProductID`, `ProductName`, `UnitPrice` FROM `products` WHERE UnitPrice < 200
```

Number of rows: 25

Sort by key: None

+ Options

	ProductID <small>Primary Key column</small>	ProductName	UnitPrice
<input type="checkbox"/> Edit Copy Delete	5		0
<input type="checkbox"/> Edit Copy Delete	6	Penbox	100
<input type="checkbox"/> Edit Copy Delete	7	notepad	30
<input type="checkbox"/> Edit Copy Delete	14	Savlon Cream	50
<input type="checkbox"/> Edit Copy Delete	15	Lifeboy	70
<input type="checkbox"/> Edit Copy Delete	16	Mobile Cover	100

↑ ☐ Check All With selected: ☐ Change ☐ Delete ☐ Export

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 50 AND 200
```

Number of rows: 25

Sort by key: None

+ Options

	ProductID <small>Primary Key column</small>	ProductName	UnitPrice
<input type="checkbox"/> Edit Copy Delete	6	Penbox	100
<input type="checkbox"/> Edit Copy Delete	14	Savlon Cream	50
<input type="checkbox"/> Edit Copy Delete	15	Lifeboy	70
<input type="checkbox"/> Edit Copy Delete	16	Mobile Cover	100

↑ ☐ Check All With selected: ☐ Change ☐ Delete ☐ Export

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

```
SELECT AVG(UnitPrice) FROM `products`
```

Show all Number of rows: 25 ▼

Sort by key: None ▼

+ Options

AVG(UnitPrice)

46497.3684

```
SELECT `ProductName`, `UnitPrice` FROM `products` WHERE UnitPrice > 46497.3684
```

Number of rows: 25 ▼

Sort by key: None ▼

+ Options

ProductName	UnitPrice
bottle	50000
phone	660000
AC	50050
Bike	90000

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

```
SELECT DISTINCT ProductName as Ten_Most_Expensive_Products, UnitPrice FROM Products AS a
WHERE 10 >= (SELECT COUNT(DISTINCT UnitPrice) FROM Products AS b WHERE b.UnitPrice >=
a.UnitPrice) ORDER BY UnitPrice desc;
```

`SELECT DISTINCT ProductName as Ten_Most_Expensive_Products, UnitPrice FROM Products AS a WHERE 10 >= (SELECT COUNT(DISTINCT UnitPrice) FROM Products AS b WHERE b.UnitPrice >= a.UnitPrice) ORDER BY UnitPrice desc`

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+ Options

Ten_Most_Expensive_Products	UnitPrice
phone	660000
Bike	90000
AC	50050
bottle	50000
book	10000
Fan	10000
Headphone	5000
Monitor	3450
chess	2000
Jacket	1000
Wires	1000
keyboard	350
NULL	NULL
watch	NULL

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

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

+ Options

Count(ProductName)
9
11

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`, `UnitsInStock`, `UnitsOnOrder` FROM `products` WHERE UnitsInStock < QuantityPerUnit
```

Number of rows: 25 ▼

Sort by key: None ▼

+ Options

ProductName	UnitsInStock	UnitsOnOrder
book	12	14
phone	20	65
	40	32
Penbox	42	123
notepad	42	75
keyboard	20	46
Fan	45	12
NULL	1	1
Wires	45	4
Bike	20	12