

Assignment 1 : Simple SQL Query with a single table with where clause

Northwind database

Sample table :Products

-ProductID

-ProductName

-SupplierID

-CategoryID

-QuantityPerUnit

-UnitPrice

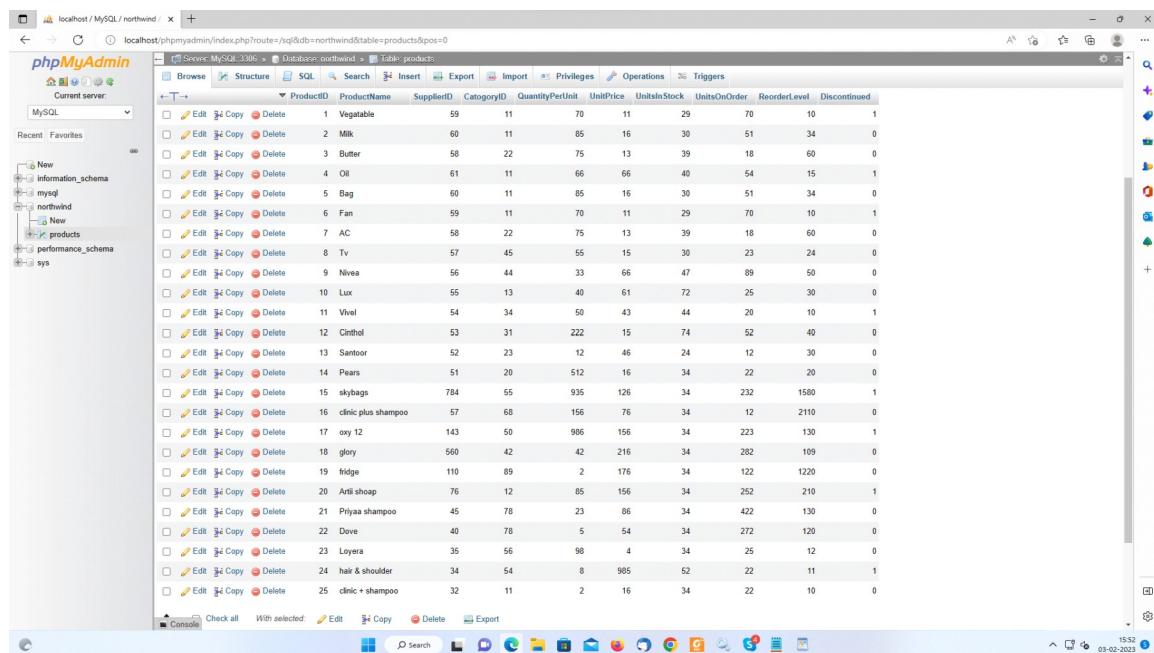
-UnitsInStock

-UnitsOnOrder

-ReorderLevel

-Discontinued

Database :-



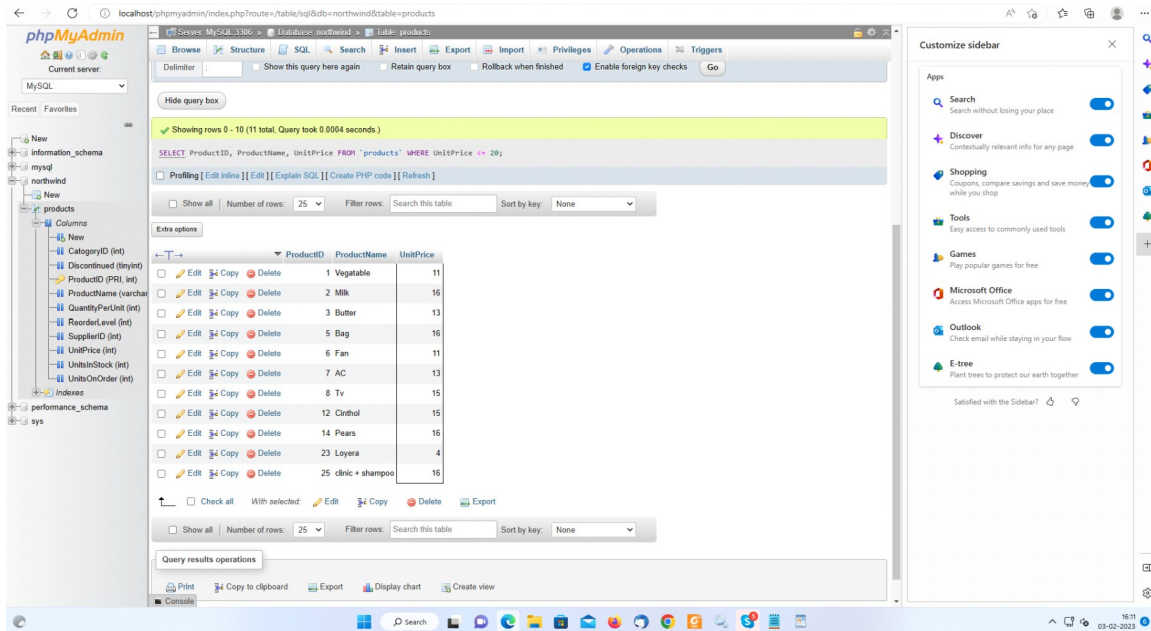
The screenshot shows the phpMyAdmin interface for the Northwind database. The 'Products' table is selected, and its structure is displayed. The table has 11 columns: ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, and Discontinued. The table contains 25 rows of data. The interface includes a sidebar with a tree view of the database structure, a top navigation bar with tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers, and a bottom status bar.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Vegatable	59	11	70	11	29	70	10	1
2	Milk	60	11	85	16	30	51	34	0
3	Butter	58	22	75	13	39	18	60	0
4	Oil	61	11	66	66	40	54	15	1
5	Bag	60	11	85	16	30	51	34	0
6	Fan	59	11	70	11	29	70	10	1
7	AC	58	22	75	13	39	18	60	0
8	Tv	57	45	55	15	30	23	24	0
9	Nivea	56	44	33	66	47	89	50	0
10	Lux	55	13	40	61	72	25	30	0
11	Vivel	54	34	50	43	44	20	10	1
12	Cinthal	53	31	222	15	74	52	40	0
13	Santoor	52	23	12	46	24	12	30	0
14	Pears	51	20	512	16	34	22	20	0
15	skybags	784	55	935	126	34	232	1580	1
16	clinic plus shampoo	57	68	156	76	34	12	2110	0
17	oxy 12	143	50	986	156	34	223	130	1
18	glory	560	42	42	216	34	282	109	0
19	fridge	110	89	2	176	34	122	1220	0
20	Artli shoap	76	12	85	156	34	252	210	1
21	Priyaa shampoo	45	78	23	86	34	422	130	0
22	Dove	40	78	5	54	34	272	120	0
23	Loyera	35	56	98	4	34	25	12	0
24	hair & shoulder	34	54	8	985	52	22	11	1
25	clinic + shampoo	32	11	2	16	34	22	10	0

1. Write a query to get a Product list (id, name, unit price) where current products cost less than \$20.

Query :-

**SELECT ProductID, ProductName, UnitPrice FROM `products`
WHERE UnitPrice <= 20;**

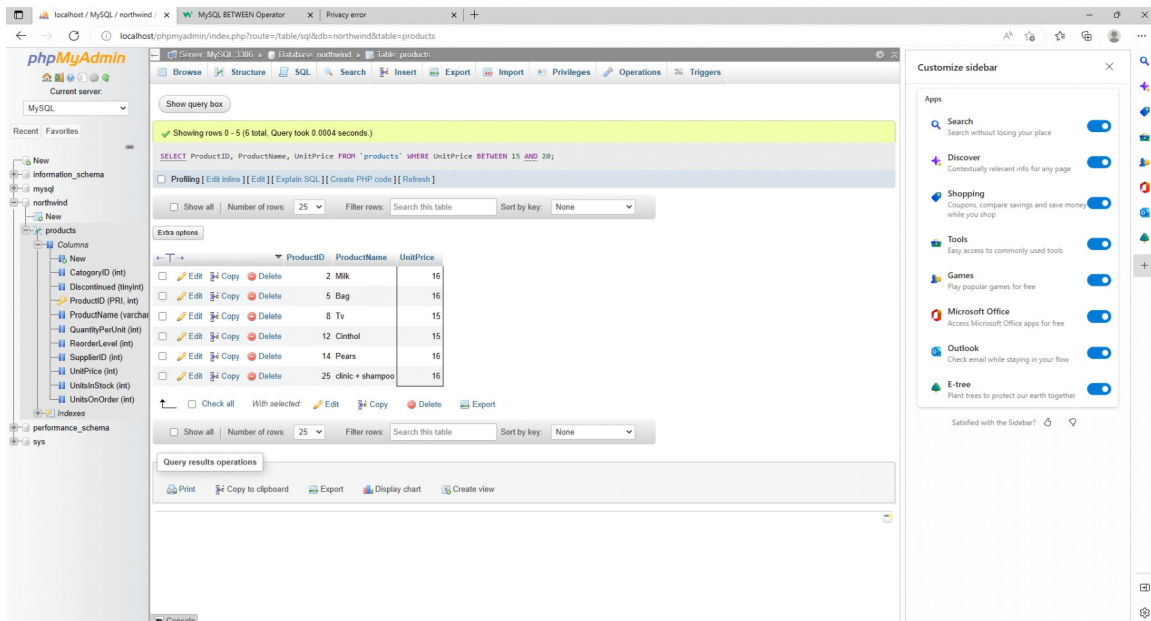


The screenshot shows the phpMyAdmin interface with a SQL query executed. The query is: `SELECT ProductID, ProductName, UnitPrice FROM `products` WHERE UnitPrice <= 20;`. The results show 11 rows of product data.

ProductID	ProductName	UnitPrice
1	Vegetable	11
2	Milk	16
3	Butter	13
5	Bag	16
6	Fan	11
7	AC	13
8	Tv	15
12	Cinthal	15
14	Pears	16
23	Loyera	4
25	clinic + shampoo	16

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

Query:-



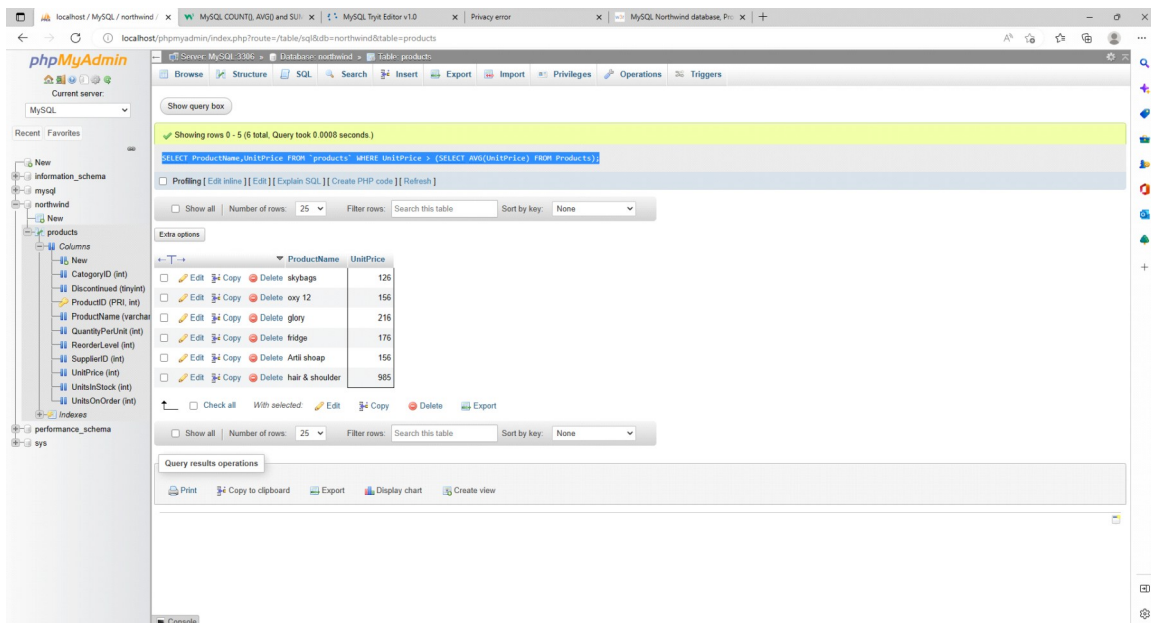
The screenshot shows the phpMyAdmin interface with a SQL query executed. The query is: `SELECT ProductID, ProductName, UnitPrice FROM `products` WHERE UnitPrice BETWEEN 15 AND 20;`. The results show 5 rows of product data.

ProductID	ProductName	UnitPrice
2	Milk	16
5	Bag	16
8	Tv	15
12	Cinthal	15
14	Pears	16

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

Query:-

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



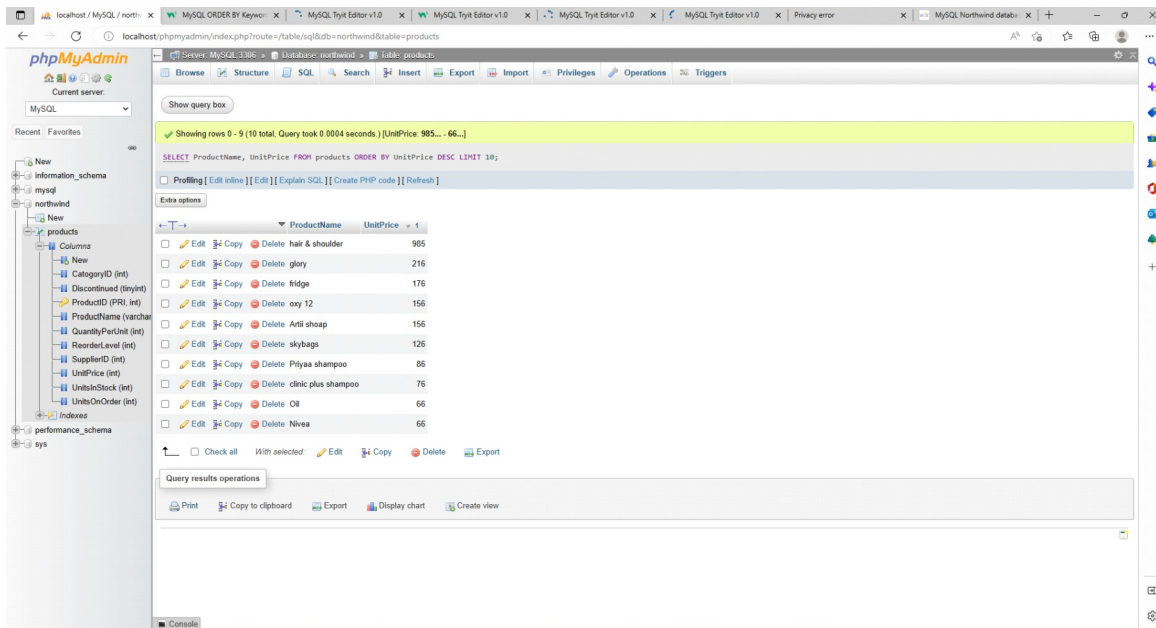
4. Write a query to get Product list (name, unit price) of ten most expensive products

Query:-

SELECT ProductName, UnitPrice FROM products

ORDER BY UnitPrice DESC

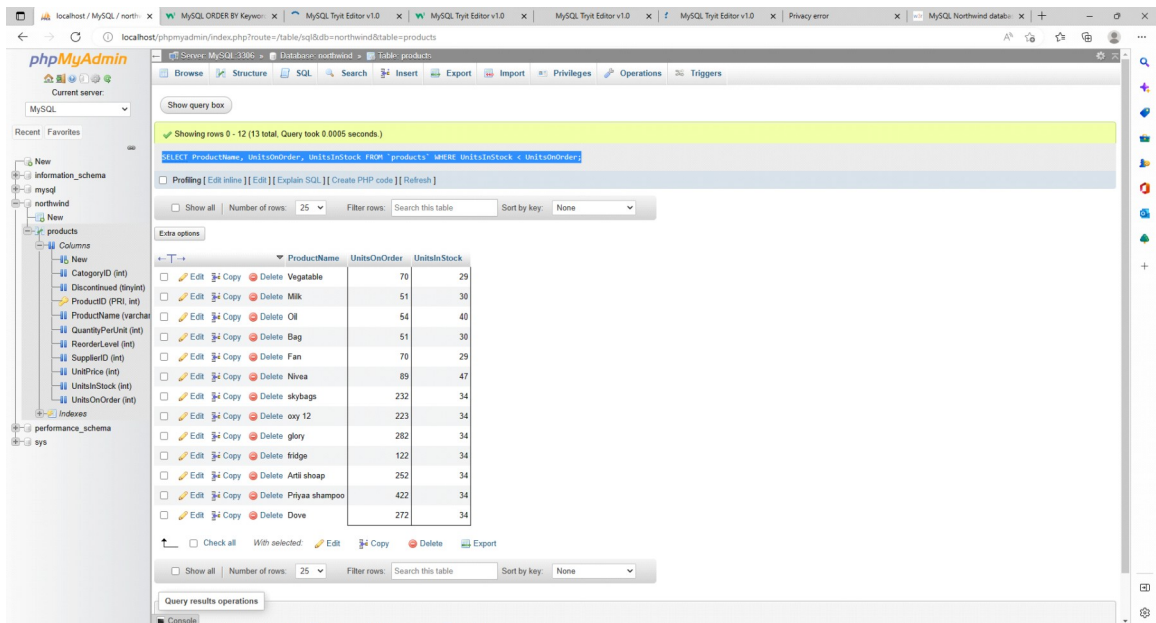
LIMIT 10;



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

query :-

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



6. Write a query to count current and discontinued products

query :-

SELECT COUNT(ProductName) FROM products GROUP BY Discontinued;

The screenshot shows the phpMyAdmin web interface. The left sidebar displays the database structure with 'northwind' selected. The main panel shows the 'products' table. A SQL query is entered in the 'Show query box':

```
SELECT COUNT(ProductName) FROM products GROUP BY Discontinued;
```

The query result is displayed in a table with two rows:

Discontinued	COUNT(ProductName)
0	8
1	17

The interface also shows various controls like 'Show all', 'Number of rows', and 'Filter rows'.