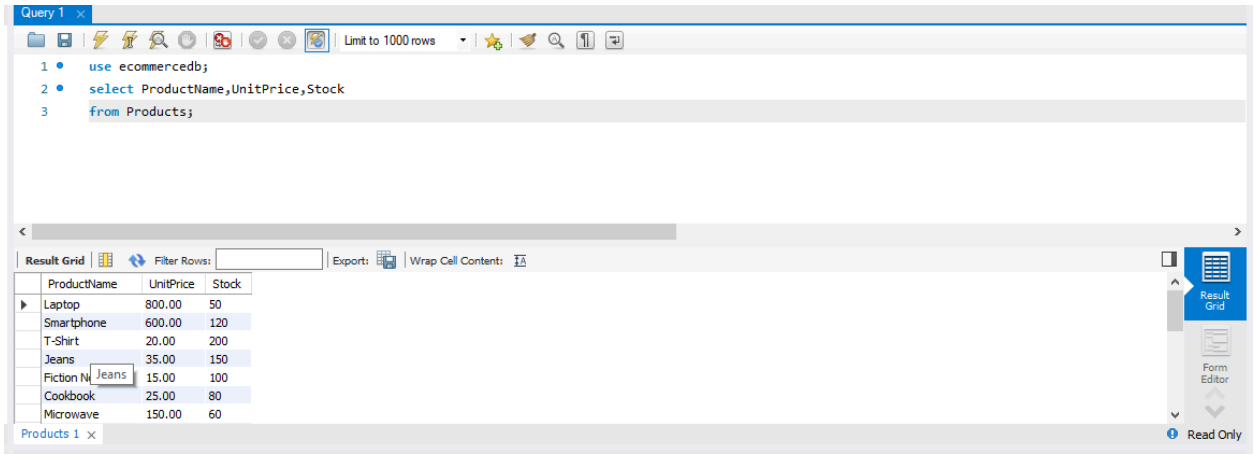
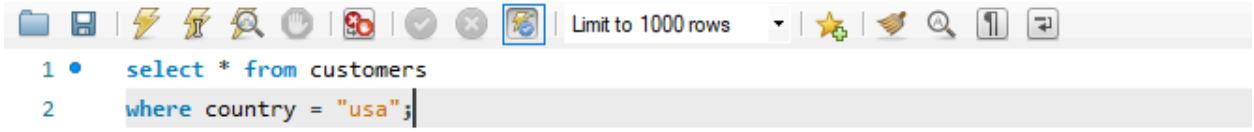
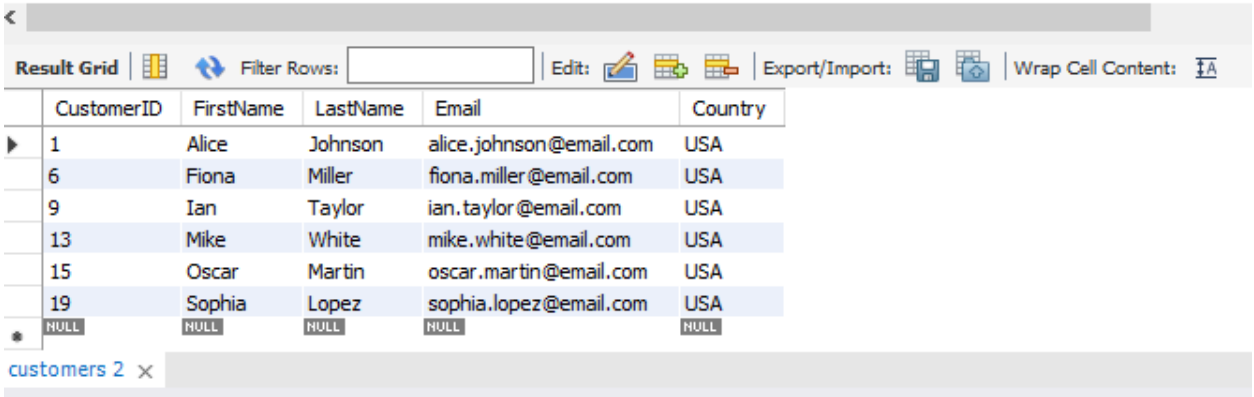
E commerce db

Display all products with their product name, unit price and stock.



List of all customer from USA





Show All order sort by order date

```
select orderID, CustomerID,orderDate
from orders
order by OrderDate;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

orderID	CustomerID	orderDate
1	1	2024-01-15
13	1	2024-01-15
2	2	2024-02-10
14	2	2024-02-10
3	3	2024-03-05
15	3	2024-03-05
4	4	2024-04-01

orders 3

Find the total number of products.

```
select count(*) as TotalProduct
from Products;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TotalProduct
20

List Distinct Supplier Countries.

```
1  select distinct country
2  from Suppliers;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

country
USA
UK
Canada
Germany
Australia

Get Product Name and Catagory Name.

```
1  select P.ProductName, C.CategoryName
2  from Products p inner join Categories C
3  on p.CategoryID = C.CategoryID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ProductName	CategoryName
Laptop	Electronics
Smartphone	Electronics
Tablet	Electronics
Headphones	Electronics
Camera	Electronics
T-Shirt	Clothing
Jeans	Clothing

Result 7

Show total stock for each category.

```
1  select sum(stock) as TotalStock, categoryName
2  from Categories c join Products p
3  on c.categoryID = p.CategoryID
4  group by CategoryName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

TotalStock	categoryName
475	Electronics
530	Clothing
363	Books
250	Home Appliances
265	Sports

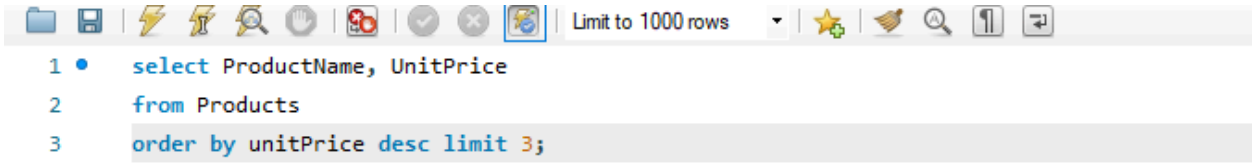
List Customer who placed atleast one order

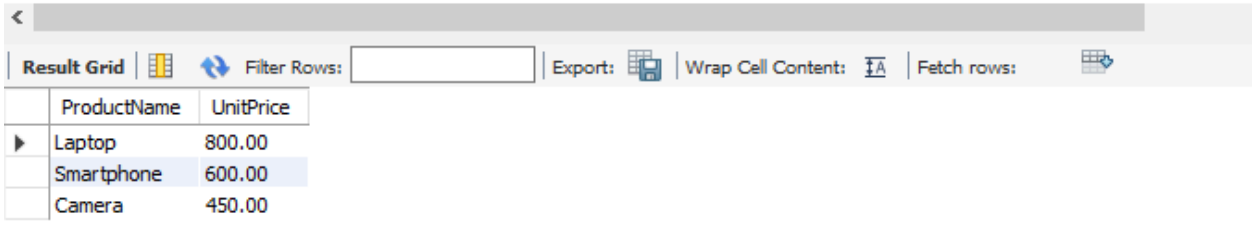
```
1  select distinct c.customerID, c.FirstName, c.LastName,c.email,c.Country
2  from Customers c inner join Orders o
3  on c.customerID = o.customerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

customerID	FirstName	LastName	email	Country
1	Alice	Johnson	alice.johnson@email.com	USA
2	Bob	Smith	bob.smith@email.com	Canada
3	Charlie	Williams	charlie.w@email.com	UK
4	Diana	Brown	diana.brown@email.com	Germany
5	Ethan	Jones	ethan.jones@email.com	Australia
6	Fiona	Miller	fiona.miller@email.com	USA
7	George	Davis	george.davis@email.com	India

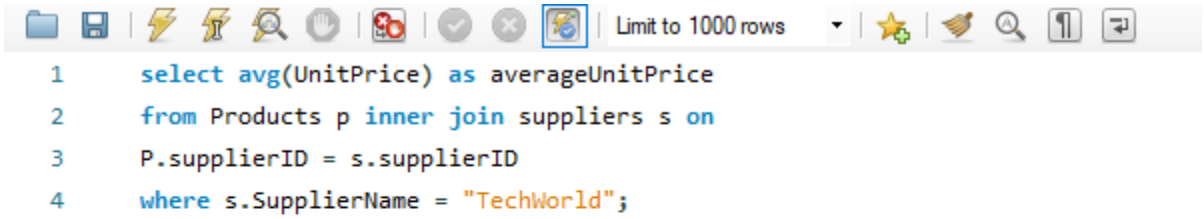
Top 3 most expensive Products.

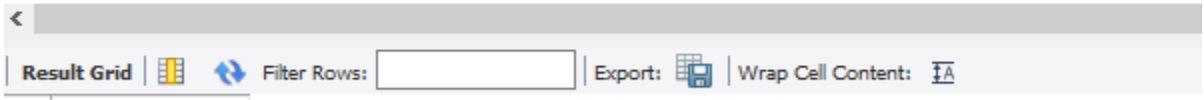




ProductName	UnitPrice
Laptop	800.00
Smartphone	600.00
Camera	450.00

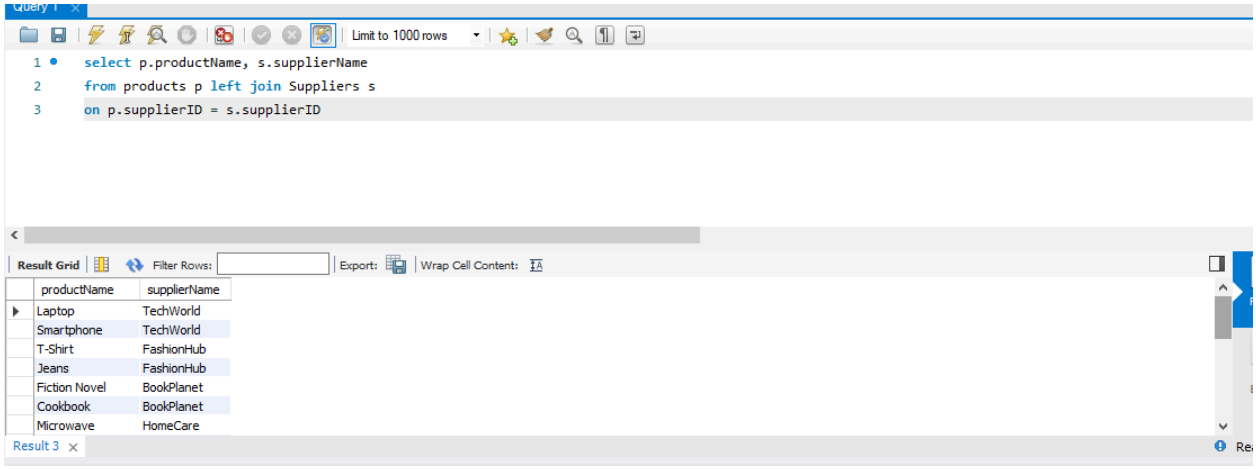
Average price of product from TechWorld



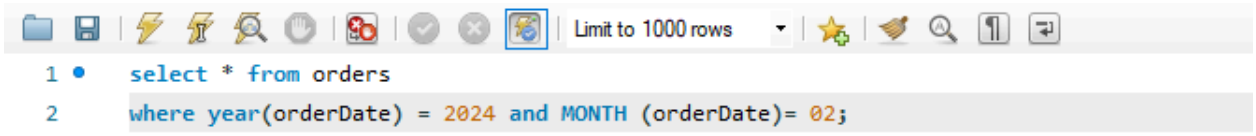


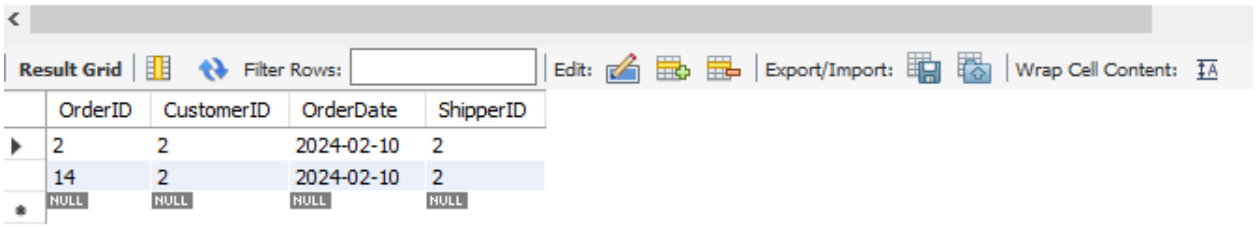
averageUnitPrice
440.000000

Show All Products and Suppliers.



Show all order details place in february 2024





Show all products above average price in their category

```sql
select p.productName, c.Categoryname, p.UnitPrice
from Products p join Categories c on
p.categoryID = c.categoryID
where p.unitPrice > (select avg(UnitPrice) from Products);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

productName	Categoryname	UnitPrice
Laptop	Electronics	800.00
Smartphone	Electronics	600.00
Tablet	Electronics	300.00
Camera	Electronics	450.00

Create view for customer Summary.

```sql
create view customerDetail as select c.customerID, concat(c.FirstName,'',c.lastName) as customerName ,count(o.orderID) as
TotalOrder, SUM(od.quantity * p.UnitPrice)as totalSpent
from Customers c left join Orders o on c.customerID = o.customerID
left join OrderDetails od on o.orderID = od.OrderID left join Products p on
p.productID = od.productID
group by c.customerID;
select * from customerDetail;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

customerID	customerName	TotalOrder	totalSpent
1	AliceJohnson	2	NULL
2	BobSmith	2	NULL
3	CharlieWilliams	2	NULL
4	DianaBrown	2	NULL
5	EthanJones	2	NULL
6	FionaMiller	2	NULL
7	GeorgeDavis	2	NULL

customerDetail 18 | Output

Write an SQL statement to create an index on the `orderdate` column of the `orders` table so that queries retrieving the latest orders run efficiently in descending order.

Query 1

```sql
CREATE INDEX idx_orders_date ON orders(orderdate DESC);
```