

E commerce db

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

Query 1

```
1 • use ecommercedb;
2 • select ProductName,UnitPrice,Stock
3   from Products;
```

Result Grid

ProductName	UnitPrice	Stock
Laptop	800.00	50
Smartphone	600.00	120
T-Shirt	20.00	200
Jeans	35.00	150
Fiction N	15.00	100
Cookbook	25.00	80
Microwave	150.00	60

Products 1

List of all customer from USA

Query 2

```
1 • select * from customers
2   where country = "usa";
```

Result Grid

CustomerID	FirstName	LastName	Email	Country
1	Alice	Johnson	alice.johnson@email.com	USA
6	Fiona	Miller	fiona.miller@email.com	USA
9	Ian	Taylor	ian.taylor@email.com	USA
13	Mike	White	mike.white@email.com	USA
15	Oscar	Martin	oscar.martin@email.com	USA
19	Sophia	Lopez	sophia.lopez@email.com	USA
NULL	NULL	NULL	NULL	NULL

customers 2

Show All order sort by order date

Limit to 1000 rows

```
1 • select orderID, CustomerID,orderDate
2   from orders
3   order by OrderDate;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	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 x

Find the total number of products.

Limit to 1000 rows

```
1 • select count(*) as TotalProduct
2   from Products;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	TotalProduct
▶	20

List Distinct Supplier Countries.

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

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

	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: I A

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

Result 7 x Rea

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;
```


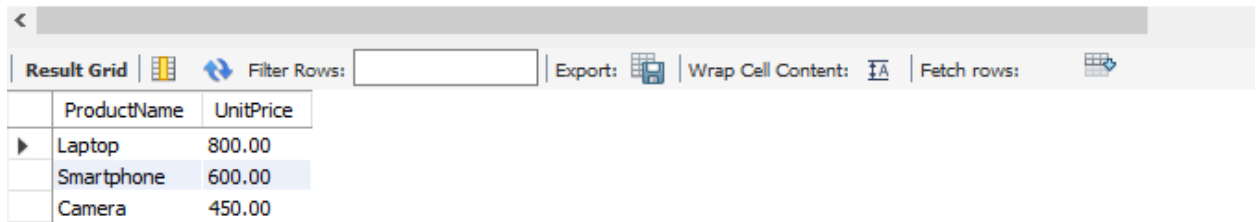
TotalStock	categoryName
475	Electronics
530	Clothing
363	Books
250	Home Appliances
265	Sports

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;
```

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.



```
1 select avg(UnitPrice) as averageUnitPrice
2 from Products p inner join suppliers s on
3 P.supplierID = s.supplierID
4 where s.SupplierName = "TechWorld";
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	averageUnitPrice
	440.000000

Show All Products and Suppliers.

Query 1

```

1 • select p.productName, s.supplierName
2   from products p left join Suppliers s
3   on p.supplierID = s.supplierID

```

Result Grid

productName	supplierName
Laptop	TechWorld
Smartphone	TechWorld
T-Shirt	FashionHub
Jeans	FashionHub
Fiction Novel	BookPlanet
Cookbook	BookPlanet
Microwave	HomeCare

Result 3

Show all order details place in february 2024

Query 2

```

1 • select * from orders
2   where year(orderDate) = 2024 and MONTH (orderDate)= 02;

```

Result Grid

OrderID	CustomerID	OrderDate	ShipperID
2	2	2024-02-10	2
14	2	2024-02-10	2
NULL	NULL	NULL	NULL

Show all products above average price in their category

```

1 • select p.productName, c.Categoryname, p.UnitPrice
2   from Products p join Categories c on
3   p.categoryID = c.categoryID
4   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.

```

1 • create view customerDetail as select c.customerID, concat(c.FirstName,' ',c.lastName) as customerName ,count(o.orderID) as
2   TotalOrder, SUM(od.quantity * p.UnitPrice)as totalSpent
3   from Customers c left join Orders o on c.customerID = o.customerID
4   left join OrderDetails od on o.orderID = od.OrderID left join Products p on
5   p.productID = od.productID
6   group by c.customerID;
7 • 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 x

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 x
1 • CREATE INDEX idx_orders_date ON orders(orderdate DESC);

```