requirements for Online Store:

1. Product Catalog Management:
• This would store information about the products available for sale.
It would include attributes such as product name, description, price, quantity in stock, images, and other relevant details.

2. Customer Information:
• This would store information about registered customers.
• It would include data such as customer name, contact details, shipping address, login credentials.

3. Order Information:
• This would store information about customer orders. It would include data such as order number, customer details, order date and time, purchased products, quantities ,prices , shipping method, and order status.
• Order Status: Pending, Processing, Shipped, Delivered ,Cancelled , Refunded.

4. Payment Transaction:
• This would store information about payment transactions.
• It would include data such as transaction ID, customer details, payment amount, payment method, timestamp.

5. Shipping:
- This would store information about shipping and logistics.
- It would include data such as order ID, shipping carrier details, tracking number, shipping status, Estimated delivery date, Actual Delivery Date and any related notes or updates.
- Shipping Status: 1. Processing 2. Out for Delivery 3. Delivered 4. Return to Sender 5. On Hold 6. Delayed 7. Lost

6. Reviews and Ratings:

- This would store customer reviews and ratings for products. It would include data such as product ID , customer ID, review text, rating score (1 to 5), and timestamps.

ER Diagram (conceptual)

Entities and attributes:

- **Product Category**: Product_ID, Category name
- **Reviews**: Review ID, review text, Rating Score, Time Stamps
- **Product Catalog**: Product catalog ID, Product Name, Images, Quantity in stock, Description, Price
- **Order**: Date and Time, Product Quantity, order ID, Order Price, Shipping Method, Order status
- **Customer**: name, Customer ID, Contact details, Shipping Address, login credentials
- **Transactions**: Transaction ID, Payment Amount, Payment Method, Times Tamp
- **Shipping Order**: Shipping ID, Shipping Carrier details, Tracking Number, Shipping Status

Relational Schema (tables)

Product Category

	Field	Type
PK	Product Category ID	int
	Category Name	nvarchar(100)

Reviews

	Field	Type
PK	ReviewID	int
	Review Text	nvarchar(500)
	Rating	tiny int
	Review Date	date
FK	Cuustomat ID	int
FK	Product ID	int

Products Catalog

	Field	Type
PK	Product Catalog Id	int
	Name	nvarchar(100)
	Price	small money
	Description	nvarchar(500)
	Quantity	int
FK	Category ID	int

Order Items

	Field	Type
PK,FK	Order ID	int
PK,FK	Product ID	int
	Quantity	int
	Price	Small money
	Total items Price	small money

Orders

	Field	Type
PK	Order Id	int
Fk	Customatr ID	int
	Order date	datetime2
	Total Order Price	Small money
	Order status	tiny int
Fk	Shipping Method	nvarchar(100)

Customers

	Field	Type
PK	Customers ID	int
	Name	nvarchar(100)
	Phone	nvarchar(100)
	Email	nvarchar(100)
	Address	nvarchar(200)
	UserName	nvarchar(100)
	Password	nvarchar(100)

Orders status

	Field	Type
PK	Status ID	tiny int
	Status Name	nvarchar(50)

Product Images

	Field	Type
PK	Image ID	int
	Image URL	nvarchar(400)
	Image order	Small int
FK	Product ID	int

Transactions

	Field	Type
PK	Transaction Id	int
	paayment Amount	small money
	Payment Method	nvarchar(100)
	Transaction date	date time
Fk	Order ID	int

Shipping Order

	Field	Type
PK	Shipping Id	int
	Shipping Carrier Details	nvarchar(255)
	Tracking number	int
FK	Shipping Status	tiny int
FK	Order ID	int
FK	Customar ID	int
	Estimated delivery date	date time
	Actual delivery date	date time

Shipping status

	Field	Type
PK	Status ID	tiny int
	Status Name	nvarchar(50)