1) Create Database

```sql
CREATE DATABASE retail_store;
USE retail_store;
Create Suppliers Table
CREATE TABLE Suppliers (
    SupplierID INT AUTO_INCREMENT PRIMARY KEY,
    SupplierName VARCHAR(100),
    ContactNumber VARCHAR(20)
);
 Create Products Table
CREATE TABLE Products (
    ProductID INT AUTO_INCREMENT PRIMARY KEY,
    ProductName VARCHAR(100),
    Price DECIMAL(10,2),
    StockQuantity INT,
    SupplierID INT,
    FOREIGN KEY (SupplierID) REFERENCES Suppliers(SupplierID)
);
Create Sales Table
CREATE TABLE Sales (
    SaleID INT AUTO_INCREMENT PRIMARY KEY,
    ProductID INT,
    QuantitySold INT,
    SaleDate DATE,
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
);
```

2) Add Category column

```sql
ALTER TABLE Products ADD Category VARCHAR(50);
```

3) Remove Category column

```sql
ALTER TABLE Products
DROP COLUMN Category;
```

4) Modify ContactNumber

```sql
ALTER TABLE Suppliers
MODIFY ContactNumber VARCHAR(15);
```

5) Add NOT NULL constraint

```sql
ALTER TABLE Products
MODIFY ProductName VARCHAR(100) NOT NULL;
```

6.

a) Insert Supplier

```sql
INSERT INTO Suppliers (SupplierName, ContactNumber)
VALUES ('FreshFoods', '01001234567');
```

b) Insert Products

```sql
INSERT INTO Products (ProductName, Price, StockQuantity, SupplierID)
VALUES
('Milk', 15.00, 50, 1),
('Bread', 10.00, 30, 1),
('Eggs', 20.00, 40, 1);
```

c) Insert Sale

```sql
INSERT INTO Sales (ProductID, QuantitySold, SaleDate)
VALUES (1, 2, '2025-05-20');
```

---

7) Update Bread price

```sql
UPDATE Products
SET Price = 25.00
WHERE ProductName = 'Bread';
```

8) Delete Eggs product

```sql
DELETE FROM Products
WHERE ProductName = 'Eggs';
```

---

9) Total quantity sold per product

```sql
SELECT p.ProductName, SUM(s.QuantitySold) AS TotalSold
FROM Products p
LEFT JOIN Sales s ON p.ProductID = s.ProductID
GROUP BY p.ProductName;
```

---

10) Product with highest stock

```sql
SELECT ProductName, StockQuantity
FROM Products
ORDER BY StockQuantity DESC LIMIT 1;
```

---

11) Suppliers starting with F

```sql
SELECT * FROM Suppliers
WHERE SupplierName LIKE 'F%';
```

---

12) Products never sold

```sql
SELECT p.ProductName
FROM Products p
LEFT JOIN Sales s ON p.ProductID = s.ProductID
WHERE s.ProductID IS NULL;
```

13) Sales with product name and date

```sql
SELECT p.ProductName, s.QuantitySold, s.SaleDate
FROM Sales s
JOIN Products p ON s.ProductID = p.ProductID;
```

14) Create user and grant permissions

```sql
CREATE USER 'store_manager'@'localhost' IDENTIFIED BY '1234';

GRANT SELECT, INSERT, UPDATE
ON retail_store.*
TO 'store_manager'@'localhost';
```

15) Revoke UPDATE permission

```sql
REVOKE UPDATE
ON retail_store.*
FROM 'store_manager'@'localhost';
```

16) Grant DELETE on Sales only

```sql
GRANT DELETE
ON retail_store.Sales
TO 'store_manager'@'localhost';
```