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CREATE DATABASE mydatabase;
USE mydatabase;
CREATE TABLE Product (
  ProductID INT PRIMARY KEY AUTO_INCREMENT,
  ProductName VARCHAR(100),
  Price DECIMAL(10,2),
  Quantity INT
);
import java.sql.*;
import java.util.Scanner;
public class ProductCRUD {
  static final String URL = "jdbc:mysql://localhost:3306/mydatabase";
  static final String USER = "root";
  static final String PASSWORD = "";
  public static void main(String[] args) {
   try (Connection con = DriverManager.getConnection(URL, USER, PASSWORD);
      Scanner scanner = new Scanner(System.in)) {
     Class.forName("com.mysql.cj.jdbc.Driver");
     System.out.println("Database connected successfully!");
     while (true) {
       System.out.println("\n1. Add Product");
       System.out.println("2. View Products");
       System.out.println("3. Update Product");
       System.out.println("4. Delete Product");
       System.out.println("5. Exit");
       System.out.print("Enter your choice: ");
```

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int choice = scanner.nextInt();
     switch (choice) {
       case 1:
         addProduct(con, scanner);
         break;
       case 2:
         viewProducts(con);
         break;
       case 3:
         updateProduct(con, scanner);
         break;
       case 4:
         deleteProduct(con, scanner);
         break;
       case 5:
         System.out.println("Exiting...");
         return;
       default:
         System.out.println("Invalid choice! Try again.");
     }
   }
 } catch (Exception e) {
   e.printStackTrace();
// Add a new product
private static void addProduct(Connection con, Scanner scanner) throws SQLException {
 System.out.print("Enter Product Name: ");
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}

}

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scanner.nextLine(); // Consume newline
  String name = scanner.nextLine();
  System.out.print("Enter Price: ");
  double price = scanner.nextDouble();
  System.out.print("Enter Quantity: ");
  int quantity = scanner.nextInt();
  String query = "INSERT INTO Product (ProductName, Price, Quantity) VALUES (?, ?, ?)";
  try (PreparedStatement stmt = con.prepareStatement(query)) {
    stmt.setString(1, name);
    stmt.setDouble(2, price);
    stmt.setInt(3, quantity);
    stmt.executeUpdate();
   System.out.println("Product added successfully!");
 }
}
// View all products
private static void viewProducts(Connection con) throws SQLException {
  String query = "SELECT * FROM Product";
  try (Statement stmt = con.createStatement();
    ResultSet rs = stmt.executeQuery(query)) {
    System.out.println("\nProduct List:");
   while (rs.next()) {
     System.out.println("ID: " + rs.getInt("ProductID") +
         ", Name: " + rs.getString("ProductName") +
         ", Price: " + rs.getDouble("Price") +
         ", Quantity: " + rs.getInt("Quantity"));
   }
 }
}
```

```
// Update a product
private static void updateProduct(Connection con, Scanner scanner) throws SQLException {
  System.out.print("Enter Product ID to update: ");
  int id = scanner.nextInt();
  System.out.print("Enter New Price: ");
  double price = scanner.nextDouble();
  System.out.print("Enter New Quantity: ");
  int quantity = scanner.nextInt();
  String query = "UPDATE Product SET Price = ?, Quantity = ? WHERE ProductID = ?";
  try (PreparedStatement stmt = con.prepareStatement(query)) {
    stmt.setDouble(1, price);
    stmt.setInt(2, quantity);
    stmt.setInt(3, id);
    int rows = stmt.executeUpdate();
    if (rows > 0) {
     System.out.println("Product updated successfully!");
   } else {
     System.out.println("Product ID not found.");
   }
 }
}
// Delete a product
private static void deleteProduct(Connection con, Scanner scanner) throws SQLException {
  System.out.print("Enter Product ID to delete: ");
  int id = scanner.nextInt();
  String query = "DELETE FROM Product WHERE ProductID = ?";
  try (PreparedStatement stmt = con.prepareStatement(query)) {
```

stmt.setInt(1, id);

int rows = stmt.executeUpdate