Bookstore Management System - MS Access Project

1. ERD / Schema

Entities and Relationships:

    Books(BookID, Title, Author, Publisher, Genre, Price, StockQuantity)
    Customers(CustomerID, Name, Email, Phone, Address)
    Orders(OrderID, CustomerID, OrderDate)
    OrderDetails(OrderDetailID, OrderID, BookID, Quantity)

    Relationships:
    Customers (1) --- (∞) Orders (1) --- (∞) OrderDetails (∞) --- (1) Books

2. Inputs / Data Entry Forms
  - frmBooks: Form to manage book records

  - frmCustomers: Form to manage customer records

  - frmOrders: Form with subform for OrderDetails

3. Sample Queries
  Low Stock Books:
  SELECT Title, StockQuantity FROM Books WHERE StockQuantity < 10;
  Total Sales Per Book:
  SELECT B.Title, SUM(OD.Quantity) AS TotalSold FROM OrderDetails AS OD
  INNER JOIN Books AS B ON OD.BookID = B.BookID GROUP BY B.Title;
  Customer Purchase History:
  SELECT C.Name, B.Title, OD.Quantity, O.OrderDate FROM Customers AS C
  INNER JOIN Orders AS O ON C.CustomerID = O.CustomerID
  INNER JOIN OrderDetails AS OD ON O.OrderID = OD.OrderID
  INNER JOIN Books AS B ON OD.BookID = B.BookID;

4. Output Reports
  - Books Inventory Report

  - Sales Report (by date or book)

  - Customer Order Report

  - Low Stock Alert Report