Part 3: Database Query Handling Problem Statement: You are given a relational database schema for an online bookstore with the following tables: Tables: Customers (customer_id, name, email) Books (book_id, title, author, price) Orders (order_id, customer_id, order_date) OrderDetails (order_id, book_id, quantity).

1. Retrieve the Top 5 Customers Who Bought the Most Books Within the Last Year.

```
SELECT c.customer_id,c.name,SUM(od.quantity) AS total_books_purchased
FROM Customers c
JOIN Orders o ON c.customer_id = o.customer_id
JOIN OrderDetails od ON o.order_id = od.order_id
WHERE o.order_date >= DATEADD(year, -1, GETDATE())
GROUP BY c.customer_id, c.name
ORDER BY total_books_purchased DESC
LIMIT 5;
```

2. Calculate Total Revenue Generated by Sales for Each Author

```
SELECT b.author, SUM(b.price * od.quantity) AS total_revenue
FROM Books b
JOIN OrderDetails od ON b.book_id = od.book_id
JOIN Orders o ON od.order_id = o.order_id
GROUP BY b.author
ORDER BY total_revenue DESC;
```

3. Retrieve All Books That Have Been Ordered More Than 10 Times

```
SELECT b.book_id, b.title, SUM(od.quantity) AS total_quantity_ordered
FROM Books b
JOIN OrderDetails od ON b.book_id = od.book_id
GROUP BY b.book_id, b.title
HAVING SUM(od.quantity) > 10
ORDER BY total_quantity_ordered DESC;
```