SQL Query:-

**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. Write a SQL query to retrieve the top 5 customers who have purchased the most books (by total quantity) over the last year.

SELECT C1.CUSTOMER\_ID, C1.NAME, SUM(OD.QUANTITY) AS TOTAL\_BOOKS\_PURCHASED FROM CUSTOMERS C1 JOIN ORDERS O ON C1.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 C1.CUSTOMER\_ID, C1.NAME ORDER BY TOTAL\_BOOKS\_PURCHASED DESC LIMIT 5;

1. Write a SQL query to calculate the total revenue generated from book sales by each author.

SELECT AUTHOR, SUM(PRICE \* QUANTITY) AS TOTAL\_REVENUE FROM BOOKS WHERE BOOK\_ID IN (SELECT BOOK\_ID FROM ORDERDETAILS) GROUP BY AUTHOR;

1. Write a SQL query to retrieve all books that have been ordered more than 10 times, along with the total quantity ordered for each book.

SELECT BOOK\_ID, TITLE, (SELECT SUM(QUANTITY) FROM ORDERDETAILS OD WHERE OD.BOOK\_ID = B.BOOK\_ID) AS TOTAL\_QUANTITY\_ORDERED FROM BOOKS B WHERE (SELECT SUM(QUANTITY) FROM ORDERDETAILS OD WHERE OD.BOOK\_ID = B.BOOK\_ID)>10;