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 c.customer\_id, c.name, SUM(od.quantity) AS total\_books

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 >= DATE\_SUB(CURDATE(), INTERVAL 1 YEAR)

GROUP BY c.customer\_id, c.name

ORDER BY total\_books DESC

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

SELECT b.author, SUM(od.quantity \* b.price) 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.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 b.book\_id, b.title, COUNT(DISTINCT od.order\_id) AS total\_orders, SUM(od.quantity) AS total\_quantity

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.book\_id, b.title

HAVING COUNT(DISTINCT od.order\_id) > 10;