1--Retrieve all books in the "Fiction" genre

Select * from books WHERE genre = 'Fiction';

- 2))--Find books published after the year 1950 Select * from books WHERE publised_year > 1950;
- 3)--List all customers from the Canada Select * from customers WHERE country = 'Canada';
- 4)--Show orders placed in November 2023
 Select * from orders
 WHERE order_date BETWEEN '2023-11-01' AND '2023-11-30';
- 5)--Retrieve the total stock of books available

Select SUM(stock) from books

- 6)--Find the details of the most expensive book Select * from books order by price DESC limit 1;
- 7)--Show all customers who ordered more than 1 quantity of a book

Select * from orders WHERE quantity > 1;

8)--Retrieve all orders where the total amount exceeds \$20

Select * from orders WHERE total_amount > 20;

9)--List all genres available in the Books table

Select DISTINCT genre from books;

10)--Find the book with the lowest stock SELECT * FROM books ORDER BY stock ASC LIMIT 1;

11)--Calculate the total revenue generated from all orders

Select SUM(total_amount)
AS revanue from orders;

-- Advance Question

1) --Retrieve the total number of books sold for each genre Select * from orders

Select b.genre, SUM(o.quantity) AS total_book_sold From orders o JOIN books b ON o.book_id = b.book_id GROUP BY b.genre;

- 2) --Find the average price of books in the "Fantasy" genre Select AVG(price) AS Avg_price From books WHERE genre = 'Fantasy';
- 3) -- List customers who have placed at least 2 orders

SELECT o.customer_id, c.name, COUNT(o.order_id) AS order_count FROM orders o

JOIN customers c ON c.customer_id = o.customer_id

GROUP BY o.customer_id, c.name

HAVING COUNT(o.order_id) >= 2;

- 4) --Find the most frequently ordered genre Select b.genre, COUNT(*) AS book_count FROM orders o JOIN books b ON o.book_id = b.book_id GROUP BY b.genre ORDER BY book_count DESC LIMIT 1;
- 5) --Show the top 3 most expensive books of 'Fantasy' Genre

Select genre, price from books WHERE genre = 'Fantasy' ORDER BY price DESC LIMIT 3;

6) -- Retrieve the total quantity of books sold by each author

Select b.author, SUM(quantity) AS book_total

FROM orders o

JOIN books b ON b.book_id = o.book_id

GROUP BY b.author;

7) -- List the cities where customers who spent over \$30 are located

Select c.city, o.total_amount FROM customers c JOIN orders o ON c.customer_id = o.customer_id WHERE total_amount > 30;

8) --Find the customer who spent the most on orders Select * from customers Select * from orders

Select c.customer_id, c.name , SUM(total_amount) AS total_spent FROM customers c JOIN orders o ON c.customer_id = o.customer_id GROUP BY c.customer_id , c.name ORDER BY total_spent DESC;

9) --Calculate the stock remaining after fulfilling all orders
SELECT b.book_id, b.title, b.stock, COALESCE(SUM(o.quantity),0) AS Order_quantity,
b.stock- COALESCE(SUM(o.quantity),0) AS Remaining_Quantity
FROM books b
LEFT JOIN orders o ON b.book_id=o.book_id
GROUP BY b.book_id ORDER BY b.book_id;