create database SQL_project;

use SQL_project;

select * from books;

select * from customers;

select * from orders;

Question 1. Retrieve All Books in the "Fiction" genre

select * from books

where genre = "Fiction";

Question 2. Find Book Published after the year 1950

select * from books

where Published_Year>1950;

Question 3. List all Customers from the Canada

select * from Customers

where Country = "Canada";

Question 4. Show Orders Placed in November 2023

 select * from orders

  where order_date between '2023-11-01' and '2023-11-30';

Question 5. **Retrieve the total stock of books availabe**

select sum(Stock) as Total_Stock from books;

Question 6. Find the details of the most expensive book

select Book_id, Author, Genre, Price

from books

order by price desc

limit 1;

Question 7.Show the Customers who Order more than 1 Quantity of a Book

select * from orders

where Quantity>1;

Question 8. Retrieve all Orders Where the total amount Exceeds $20

select Order_date, Quantity, Total_Amount

from orders

where Total_Amount>20;

Question 9. List All Gnres Available in the Books Table

select distinct genre from books;

Question10. Find the book with the lowest stock

select genre, stock

from books

order by stock;

Question 11. Calculate the total revenue generated from all orders

select round(sum(Total_amount),2) as Total_Revenue from orders;

Question 12. Retrieve the total number of books sold for each genre

select genre, sum(Quantity) as Total_number

from books b join orders o

on b.Book_ID = o.Book_ID

group by genre

order by Total_number desc;

Question 13. Find the average price of books in the "Fantasy" genre

select round(avg(Price),2) as Avrage_price

from books

where Genre = "Fantasy"

group by Genre;

Question 14. List Customers who have placed at least 2 Orders

select Customer_ID, count(order_id) as Order_count

from orders

group by Customer_ID

having count(order_id) >=2;

Question 15. Find the Most Frequently Ordered books

select Book_id, count(order_id) as order_count

from orders

group by book_id

order by order_count desc;

Question 16. Show the top 3 most Expensive books of "Fantasy" Genre

select * from books

where genre = 'Fantasy'

order by price desc limit 3;

Question 17.Retrieve the total Quantity of books sold by each author

select Author, Quantity from books b

join orders o on

b.Book_ID = o.Book_ID

order by Author desc;

Question 18.List the cities where customers who spent over $30 are located

select distinct city, total_amount

from orders o join customers c

on o.customer_id = c.customer_id

where total_amount > 30;

Question 19. Find the customer who Spent the most on orders:

select c.customer_id, c.name, round(sum(o.total_amount),1) as Total_spent

from orders o

join customers c on o.customer_id = c.customer_id

group by c.customer_id, c.name

order by Total_spent desc

limit 1;