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-- Create Database
CREATE DATABASE OnlineBookstore;
use OnlineBooksstore;
select * from books;
select * from customers;
select * from orders;
-- 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 Published 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 month(order date) = 11 and year(order date)
= 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) as Total_Stock from books;
-- 6) Find the details of the most expensive book:
select * from books
order by Price desc
limit 1;
select max(price) from books;
-- 7) Show all customers who ordered more than 1 quantity of a book:
select c.Name, o.Quantity from customers c
join orders o on c.Customer_ID = o.Customer_ID
where o.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 limit 1;
-- 11) Calculate the total revenue generated from all orders:
select round(sum(Total_Amount),2) As Total_Revenue from orders;
-- Advance Questions :
-- 1) Retrieve the total number of books sold for each genre:
select b.Genre, sum(o.Quantity) AS Total Books sold from books b
join orders o
on b.Book ID = o.Book ID
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group by b. Genre;
-- 2) Find the average price of books in the "Fantasy" genre:
select avg(Price) As Average Price from books where Genre = 'Fantasy';
-- 3) List customers who have placed at least 2 orders:
select o.Customer ID,c.Name,count(*) as Order Count from orders o
join customers c
on c.Customer ID = o.Customer ID
group by o.Customer ID, Name
having count(*) > 1;
-- 4) Find the most frequently ordered book:
select o.Book ID,b.Title,count(*) AS ORDER COUNT from orders o
join books b
on o.Book ID = b.Book ID
group by o.Book ID, b.Title
order by count (\overline{*}) desc limit 1;
-- 5) Show the top 3 most expensive books of 'Fantasy' Genre :
select * 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 (o.Quantity) as Total Books Sold from books b
join orders o
on b.Book ID = o.Book ID
group by b. Author;
-- 7) List the cities where customers who spent over $30 are located:
      select distinct c.City, o.Total Amount from orders o
    join customers c
    on o.Customer_ID = c.Customer_ID
    where Total Amount > 30;
-- 8) Find the customer who spent the most on orders:
select c.Name, c.Customer ID, sum (o.Total Amount) AS Total Amount from
customers c
join orders o
on c.Customer ID = o.Customer ID
group by c.Customer ID, c.Name
order by Total Amount desc limit 1;
-- 9) Calculate the stock remaining after fulfilling all orders:
SELECT
    b.book_id,
    b.title,
    b.stock,
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COALESCE (SUM (o.quantity), 0) AS Order quantity,

LEFT JOIN orders o ON b.book id = o.book id

GROUP BY b.book id, b.title, b.stock

FROM books b

b.stock - COALESCE (SUM (o.quantity), 0) AS Remaining Quantity