SQL PROJECT – ONLINE BOOK STORE

Answer:
SELECT * from Books
WHERE genre='Fiction';
2. Find books published after the year 1950
Answer:
SELECT * FROM Books
WHERE published_year>1950;
3. List all customers from the Canada
Answer:
SELECT * FROM Customers
WHERE country='Canada';
4. Show orders placed in November 2023
Answer:
SELECT * FROM Orders
WHERE order_date BETWEEN '2023-11-01' AND '2023-11-30';
5. Retrieve the total stock of books available
Answer:
SELECT SUM(stock) AS Total_stock FROM Books;
6. Find the details of the most expensive book
Answer:
SELECT * FROM Books
WHERE price IN (SELECT MAX(price) FROM Books);
7. Show all customers who ordered more than 1 quantity of a book
Answer:
SELECT * FROM Orders
WHERE quantity>1;

1. Retrieve all books in the "Fiction" genre

8. Retrieve all orders where the total amount exceeds \$20
Answer:
SELECT * FROM orders
WHERE total_amount>20;
9. List all genres available in the Books table
Answer:
SELECT DISTINCT genre FROM Books;
10. Find the book with the lowest stock
Answer:
SELECT * FROM Books
ORDER BY stock
LIMIT 1;
11. Calculate the total revenue generated from all orders
Answer:
SELECT SUM(total_amount) AS Revenue FROM Orders;
12. Retrieve the total number of books sold for each genre
Answer:
SELECT b.genre, SUM(o.quantity) AS Total_Books_Sold
FROM Books b
JOIN
Orders o ON (b.book_id=o.book_id)
GROUP BY b.genre;
13. Find the average price of books in the "Fantasy" genre
Answer:

SELECT AVG(price) AS Avg_Price FROM Books

WHERE genre='Fantasy';

14. List customers who have placed at least 2 orders

Answer:

SELECT customer_id, COUNT(order_id) AS Total_Orders

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FROM Orders
GROUP BY customer id
HAVING COUNT(order id)>=2;
15. Find the most frequently ordered book
Answer:
SELECT book_id, COUNT(order_id) AS Frequently_ordered
FROM Orders
GROUP BY book id
ORDER BY COUNT(order id) DESC
LIMIT 1;
16. Show the top 3 most expensive books of 'Fantasy' Genre
Answer:
SELECT * FROM Books
WHERE genre='Fantasy'
ORDER BY price DESC
LIMIT 3;
17. Retrieve the total quantity of books sold by each author
Answer:
SELECT b.author, SUM(o.quantity) AS Total quantity of books
FROM Books b
JOIN Orders o ON (b.book_id=o.book_id)
GROUP BY b.author;
18. List the cities where customers who spent over $30 are located
Answer:
SELECT DISTINCT c.city, o.total_amount, c.name
FROM Customers c
JOIN
Orders o ON (c.customer_id=o.customer_id)
WHERE o.total_amount>30;
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19. Find the customer who spent the most on orders

Answer:

SELECT c.customer_id, c.name, SUM(o.total_amount) AS most_spent

FROM Customers c

JOIN Orders o ON (c.customer_id=o.customer_id)

GROUP BY c.customer_id, c.name

ORDER BY most_spent DESC

LIMIT 1;

20. Calculate the stock remaining after fulfilling all orders

Answer:

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_stock

FROM Books b

LEFT JOIN Orders o ON (b.book_id=o.book_id)

GROUP BY b.book_id;