

SQL PROJECT

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

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 ordersg  
WHERE order_date >='2023-11-01' AND  
      order_date <= '2023-11-30';
```

5. Retrieve the total stock of books available.

Answer:-

```
SELECT SUM(stock)  
FROM books;
```

6. Find the details of the most expensive book.

Answer:-

```
SELECT * FROM books  
ORDER BY price DESC;
```

7. Show all customers who ordered more than 1 quantity of a book.

Answer:-

```
SELECT o.customer_id , o.quantity, c.name  
FROM ordersg o  
LEFT JOIN customers c  
ON o.customer_id = c.customer_id  
WHERE o.quantity > 1 ;
```

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

Answer:-

```
SELECT * FROM ordersG  
WHERE total_amount > 20  
ORDER BY total_amount ASC;
```

9. List all genres available in the Books table.

Answer:-

```
SELECT DISTINCT genre FROM books;
```

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10. Find the book with the lowest stock.

Answer:-

```
SELECT * FROM books  
ORDER BY stock ASC;
```

11. Calculate the total revenue generated from all orders.

Answer:-

```
SELECT SUM (total_amount) AS total_revenue  
FROM ordersg;
```

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

Answer:-

```
SELECT b.genre, COUNT(o.quantity)  
FROM books b  
JOIN ordersg 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)  
FROM books  
WHERE genre ='Fantasy';
```

14. List customers who have placed at least 2 orders.

Answer:-

```
SELECT customer_id,quantity  
FROM ordersg  
WHERE quantity >= 2  
ORDER BY quantity;
```

15. Find the most frequently ordered book.

Answer:-

```
SELECT book_id,COUNT(book_id) AS order_frequency  
FROM ordersg  
GROUP BY book_id  
ORDER BY order_frequency DESC;
```

16. Show the top 3 most expensive books of 'Fantasy' Genre.

Answer:-

```
SELECT *  
FROM books  
WHERE genre ='Fantasy'  
ORDER BY price DESC  
LIMIT 3 ;
```

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17. Retrieve the total quantity of books sold by each author.

Answer:-

```
SELECT b.Author,SUM(o.quantity) AS total_quantity
FROM ordersg o
JOIN books b
ON o.book_id = b.book_id
GROUP BY b.Author;
```

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

Answer:-

```
SELECT o.total_amount,c.city
FROM ordersg o
JOIN customers c
ON o.customer_id = c.customer_id
WHERE o.total_amount > 30
ORDER BY o.total_amount ;
```

19. Find the customer who spent the most on orders.

Answer:-

```
SELECT o.total_amount,c.name
FROM ordersg o
JOIN customers c
ON o.customer_id = c.customer_id
ORDER BY o.total_amount DESC;
```

20. Calculate the stock remaining after fulfilling all orders.

Answer:-

```
SELECT b.book_id, b.title ,b.stock , COALESCE (SUM(o.quantity),0) AS ordered_quantity,
b.stock - COALESCE (SUM(o.quantity),0) AS remaining_stock
FROM books b
LEFT JOIN ordersg o
ON b.book_id = o.book_id
GROUP BY b.book_id,b.title,b.stock
ORDER BY remaining_stock DESC;
```