ONLINE BOOKS STORE SQL PROJECT

1) RETRIVE ALL THE BOOK 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 THE CUSTOMER FORM CANADA:

```
SELECT * FROM customers
where COUNTRY= 'Canada';
```

4) find the most frequently ordered book:

```
SELECT * FROM orders
where ORDER_DATE between '2023-11-01' and '2023-11-30';
```

5) show the top 3 most expensive books of 'fantasy' Genre;

```
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;
```

7) SHOW ALL CUSTOMER WHO ORDERED MORE THAN 1 QUANTITY OF STOCK:

```
SELECT * FROM orders
where QUANTIY >1 ;
```

8) Retrive all order where the total amount exceed $20:

```
SELECT * FROM orders
where TOTAL_AMOUNT >20
order by TOTAL_AMOUNT desc;
```

9) Find the book with the lowest stock

```
SELECT* FROM books
order by STOCK asc
limit 1;
```

1) Retrive the total number of books sold for each genre :

```
select b.Genre , sum(o.Quantiy) as total_book_sold
from orders o
join books b on o.BOOK_ID = b.BOOK_ID
group by 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 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 o.CUSTOMER_ID = c.CUSTOMER_ID
group by o.CUSTOMER_ID, c.NAME
having count(o.order_id) = 2 ;
```

4) find the most frequently ordered book:

```
select o.book_id ,b.TITLE, count(o.order_id) as ORDER_COUNT
FROM orders o
join books b on o.BOOK_ID= b.BOOK_ID
group by o.BOOK_ID
order by ORDER_count desc;
```

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) Retrive the total quantity of books sold by each author:

```
select b.author ,sum(o.quantiy) as Total_Book_Sold
from orders o
join books b on o.BOOK_ID = b.BOOK_ID
group by b.author
order by Total_Book_Sold desc;
```

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 c.CUSTOMER_ID= o.CUSTOMER_ID
where TOTAL_AMOUNT >30
order by TOTAL_AMOUNT asc;
```

8) FIND THE CUSTOMER WHO SPENT THE MOST ON ORDERS:

```
select c.CUSTOMER_ID, c.name , sum(o.total_amount) as total_spent
from orders o
join customers c on c.CUSTOMER_ID= o.CUSTOMER_ID
group by c.CUSTOMER_ID,c.NAME
order by total_spent desc
limit 1;
```

9) CALCULATE THE STOCK REMAINING AFTER FULFILING ALL ORDERS:

```
SELECT b.BOOK_ID, b.title, b.stock,coalesce(sum(o.quantiy),0) as Order_Quantity,
b.stock -coalesce(sum(o.quantiy),0) as Remaining_Quantiy
from books b
left join orders o on b.book_id =o.book_id
group by b.book_id
order by b.BOOK_ID;
```