BOOK STORE ANALYSIS

1. Find the total number of books sold for each genre.

select books.genre, coalesce(sum(orders.quantity),0) as quantity

from books left join orders

on books.book_id = orders.book_id

group by books.genre order by quantity desc;

2. Find the average price of books in the 'Fantasy' genre.

select sum(books.price)/count(books.book_id) from books

where books.genre = 'Fantasy';

3. List the customers who have placed at least 2 orders

select customers.name, sum(orders.quantity) as sns

from customers join orders

on customers.customer_id = orders.customer_id

group by customers.name

having sns>=2

order by sns desc;

4. Find the most frequently ordered book

select books.title, count(orders.order_id) as sns

from books join orders

on books.book_id = orders.book_id

group by books.title order by sns desc limit 1;

5. Show the top 3 most expensive books of fantasy genre

select title, price from books

where genre= "Fantasy"

order by price desc limit 3;

6. Retrive the total quantity of books sold by each author.

select books.author, sum(orders.quantity) as sum

from books join orders

on books.book_id = orders.book_id

group by books.author order by sum desc;

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

select customers.name, customers.city, sum(orders.total_amount) as sns

from customers join orders

on customers.customer_id = orders.customer_id

group by customers.name, customers.city

having sns >=30

order by sns desc;

8. Find the customer who hass spend most on orders

select customers.name, sum(orders.total_amount) as sns

from customers join orders

on customers.customer_id = orders.customer_id

group by customers.name

having sns >=30

order by sns desc limit 1;

9. Calculate the stock remaining after fulfilling all the orders. where the stock is running short as compared to orders

select books.title, books.stock, coalesce(sum(orders.quantity),0) as total_ordered, books.stock - coalesce(sum(orders.quantity),0) as stock_remaining

from books left join orders

on books.book_id = orders.book_id

group by books.title, books.stock

having stock_remaining <0

order by stock_remaining asc;