

The background features a stylized illustration of a library. At the top, there are several rows of bookshelves filled with books of various colors (blue, red, brown, white). Below the shelves is a large, light-colored rectangular area with rounded corners, which serves as a backdrop for the text. At the bottom, there is a red and orange patterned rug. On the left side of the rug, there is a stack of books with a red apple on top, and a blue jar containing several colored pencils. On the right side of the rug, there is a stack of three books with blue, yellow, and red covers.

# Online Book Store

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# Introduction

The main goal of this project is to apply SQL concepts to manage and analyze data from an online book store. The dataset includes information about books, customers, and orders, allowing us to perform both basic and advanced SQL queries





# What This Project Covers:

- Retrieving, filtering, and sorting data using SELECT, WHERE, and ORDER BY
- Aggregating data with SUM, COUNT, AVG, and GROUP BY
- Joining multiple tables to gain deeper insights
- Solving real-world business problems such as tracking sales, analyzing customer behavior, and identifying best-selling products

The background of the slide is a stylized illustration of a library. It features several rows of bookshelves filled with books of various colors (blue, red, brown, white). The books are arranged in a slightly messy but organized manner. In the foreground, there is a large, orange and white patterned rug. The overall style is flat and modern.

# Tools Used:

- MySQL
- CSV datasets for Books, Customers, and Orders





**# 1) Retrieve all books in the "Fiction" genre:**

```
SELECT  
*  
FROM  
  books  
WHERE  
  Genre = 'Fiction';
```

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## #2) Find books published after the year 1950:

```
SELECT  
  *  
FROM  
  books  
WHERE  
  Published_Year > 1949;
```



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### #3) List all customers from the Canada:

```
SELECT  
  *  
FROM  
  customer  
WHERE  
  country = 'canada';
```

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## #4>Show orders placed in November 2023:

```
SELECT
  *
FROM
  orderss
WHERE
  Order_Date BETWEEN '2023-11-1'
AND '2023-11-31';
```



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## # 5) Retrieve the total stock of books available:

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

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**# 6) Find the details of the most expensive book:**

```
SELECT  
*  
FROM  
  books  
ORDER BY price DESC  
LIMIT 1;
```





**# 7) Show all customers who ordered more than 1 quantity of a book:**

```
SELECT  
  *  
FROM  
  orderss  
WHERE  
  Quantity > 1;
```



**#8> Retrieve all orders where the total amount exceeds \$20:**

```
SELECT  
  *  
FROM  
  orderss  
WHERE  
  Total_Amount > 20;
```





## # 9) List all genres available in the Books table

```
SELECT DISTINCT  
  genre  
FROM  
  Books;
```

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**#10) Find the book with the lowest stock:**

```
SELECT  
  *  
FROM  
  books  
ORDER BY Stock ASC  
LIMIT 1;
```



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**# 11) Calculate the total revenue generated from all orders:**

```
SELECT  
  SUM(Total_Amount)  
FROM  
  orderss;
```

## #ADVANCED QUERY

**#1) Retrieve the total number of books sold for each genre:**

```
SELECT
    b.Genre, SUM(o.Quantity) AS
Total_Books_sold
FROM
    Orders o
    JOIN
    Books b ON o.book_id = b.book_id
GROUP BY b.Genre;
```





**#2) Find the average price of books in the "Fantasy" genre:**

```
SELECT  
    AVG(Price) AS avg_of_fantasy  
FROM  
    books  
WHERE  
    Genre = 'Fantasy';
```

### #3) List customers who have placed at least 2 orders:

```
SELECT
    o.customer_id,    c.name,
    COUNT(o.Order_id) AS ORDER_COUNT
FROM
    orderss AS o
    JOIN
    customerss AS c ON c.Customer_ID =
o.Customer_ID
GROUP BY o.customer_id , c.name
HAVING COUNT(Order_id) >= 2;
```



## -- 4) Find the most frequently ordered book:

```
SELECT
    o.Book_id, b.title, COUNT(o.order_id)
AS ORDER_COUNT
FROM
    orderss o
    JOIN
    books b ON o.book_id = b.book_id
GROUP BY o.book_id , b.title
ORDER BY ORDER_COUNT DESC
LIMIT 1;
```



**-- 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) Retrieve the total quantity of books sold by each author:

```
SELECT
  b.Author, SUM(o.quantity)
FROM
  books AS b
  JOIN
    orderss AS o ON o.Book_ID =
b.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
  orderss AS o
  JOIN
    customerss AS c ON c.Customer_ID =
o.Customer_ID
WHERE
  Total_Amount > 30;
```



## 8) Find the customer who spent the most on orders:

```
SELECT
    c.Customer_ID,    c.Name,
    SUM(o.Total_Amount) AS total_spend
FROM
    orderss AS o
    JOIN
    customerss AS c ON c.Customer_ID =
o.Customer_ID
GROUP BY c.Customer_ID , c.Name
ORDER BY total_spend DESC
LIMIT 1;
```