



## SQL BOOK DATA

### Tables (3)

- > books
- > customers
- > orders

#### SQL Project Analysis

In this SQL project, we analyze data from three key tables: Customer, Order, and Book.

1. **Customer Table:** Stores customer details such as customer ID, name, contact information, and address.
2. **Order Table:** Contains order-related data, including order ID, customer ID (foreign key), order date, and total amount.
3. **Book Table:** Holds book-related information, including book ID, title, author, genre, price, and stock availability.

#### Analysis Goals

- Identify customer purchase patterns and most frequent buyers.
- Analyze order trends over time to track sales performance.
- Determine the best-selling books and revenue contribution by genre.
- Optimize inventory management by evaluating stock levels and demand.

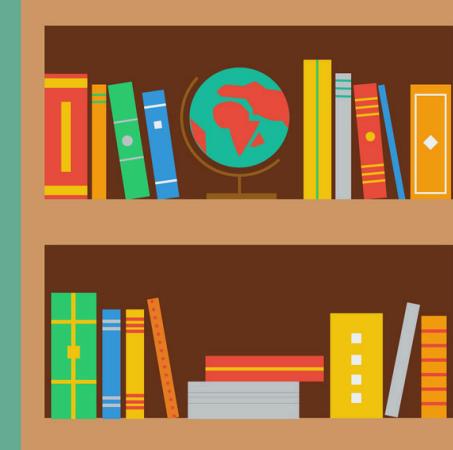


Retrieve all books in the "Fiction" genre

```
SELECT  
    genre FROM Books  
  
    WHERE Genre='Fiction'
```



	genre character varying (50)
1	Fiction
2	Fiction
3	Fiction
4	Fiction
5	Fiction



Find books published after the  
year 1950

```
SELECT published_year  
FROM  
Books  
WHERE Published_year > 1950;
```

	published_year integer
1	1971
2	2020
3	1956
4	1985
5	2019

Retrieve the total stock of books  
available

```
SELECT  
    SUM(stock) AS Total_Stock  
  From Books;
```



	total_stock	bigint
1	25056	25056



List all genres available in the  
Books table

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

	genre character varying (50)
1	Romance
2	Biography
3	Mystery
4	Fantasy
5	Fiction

Find the book with the lowest  
stock

```
SELECT * FROM Books  
ORDER BY stock  
LIMIT 1;
```



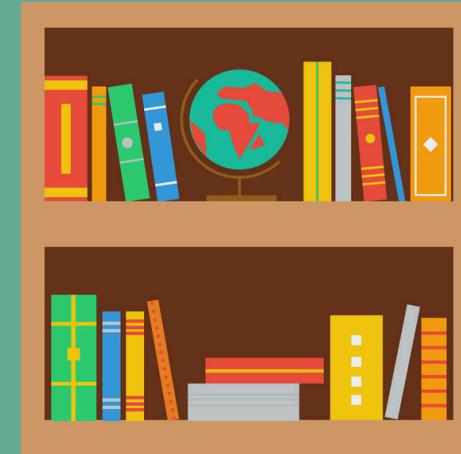
	book_id [PK] integer	title character varying (100)	author character varying (100)	genre character varying (50)	published_year integer	price numeric (10,2)	stock integer
1	44	Networked systemic implementation	Ryan Frank	Science Fiction	1965	13.55	0





Calculate the total revenue  
generated from all orders

```
SELECT SUM(total_amount)  
      As Revenue  
   FROM Orders;
```



	revenue	numeric
1		75628.66





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;
```

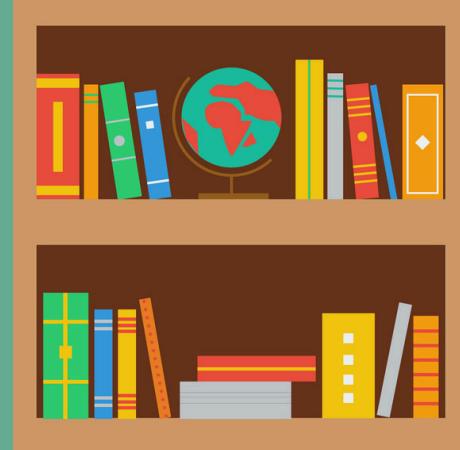


	genre character varying (50)	total_books_sold bigint
1	Romance	439
2	Biography	285
3	Mystery	504
4	Fantasy	446
5	Fiction	225
6	Non-Fiction	351
7	Science Fiction	447



Retrieve the total quantity of  
books sold by each author

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



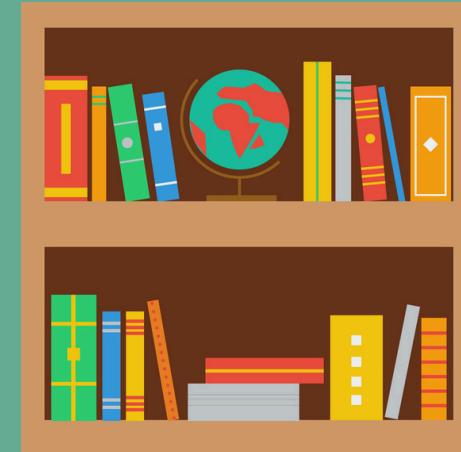
	author character varying (100)	total_books_sold bigint
1	Jared Cortez	10
2	Tracy Parker	11
3	Taylor Wang	9
4	Cathy Knight	6
5	Bianca Matthews	3
6	Douglas Malone	6
7	James Alvarado	9
8	Betty Cross	6





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 o.customer_id=c.customer_id  
 GROUP BY c.customer_id, c.name  
 ORDER BY Total_spent Desc LIMIT 1;
```



	customer_id [PK] integer	name character varying (100)	total_spent numeric
1	457	Kim Turner	1398.90





Design and analysis  
by  
Himanshu sirohi

<https://www.linkedin.com/in/himanshu-sirohi-02a941367/>

