

# Online Book Store Sales SQL Project



Project Create by  
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# ABOUT US

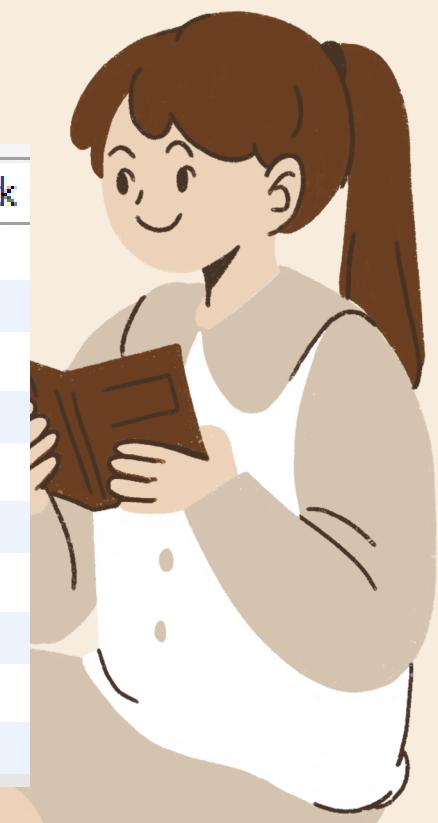
This project focuses on analyzing online book sales data using SQL to uncover key business insights. It includes structured data on books, customers, orders, and sales trends, helping to identify best-selling books, customer purchase behavior, and revenue growth patterns. By leveraging SQL queries, this project aims to support data-driven decision-making for an online book store.

# RETRIEVE ALL BOOKS IN THE "FICTION" GENRE

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



	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
▶	4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52	8
	22	Multi-layered optimizing migration	Wesley Escobar	Fiction	1908	39.23	78
	28	Expanded analyzing portal	Lisa Coffey	Fiction	1941	37.51	79
	29	Quality-focused multi-tasking challenge	Katrina Underwood	Fiction	1905	31.12	100
	31	Implemented encompassing conglomeration	Melissa Taylor	Fiction	2010	21.23	44
	39	Optimized national process improvement	Megan Goodwin	Fiction	1978	10.99	42
	40	Adaptive didactic interface	Natalie Gonzalez	Fiction	1923	25.97	94
	47	Reverse-engineered directional conglomeration	John Christian	Fiction	2006	20.37	90
	62	Re-contextualized real-time strategy	Nicole Lynch	Fiction	1953	26.34	23
	63	Polarized heuristic database	Franklin Mack	Fiction	1989	22.38	56



# FIND BOOK PUBLISHED AFTER THE YEAR 1950

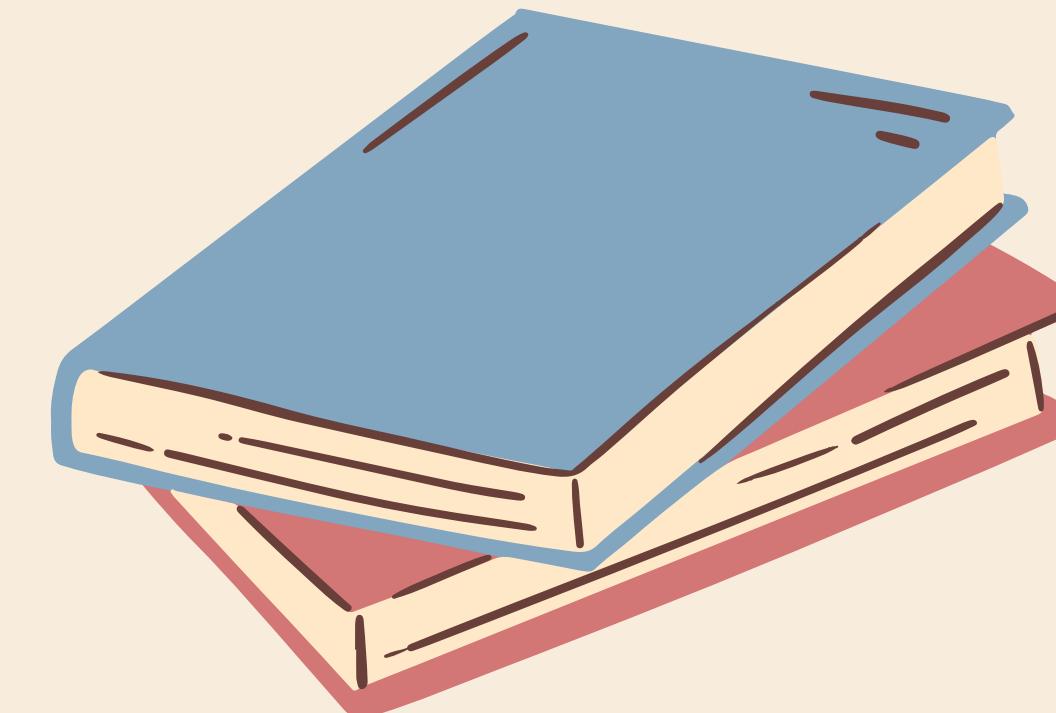
```
SELECT
  *
FROM
  books
WHERE
  Published_Year > 1950;
```

	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
▶	2	Persevering reciprocal knowledge user	Mario Moore	Fantasy	1971	35.8	19
	4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52	8
	5	Adaptive 5thgeneration encoding	Juan Miller	Fantasy	1956	10.95	16
	6	Advanced encompassing implementation	Bryan Morgan	Biography	1985	6.56	2
	8	Persistent local encoding	Troy Cox	Science Fiction	2019	48.99	84
	9	Optimized interactive challenge	Colin Buckley	Fantasy	1987	14.33	70
	10	Ergonomic national hub	Samantha Ruiz	Mystery	2015	24.63	25
	11	Secured zero tolerance time-frame	Denise Barnes	Fantasy	1998	35.95	10
	12	Polarized optimal array	Destiny Scott	Non-Fiction	1989	27.43	63
	15	User-friendly motivating strategy	Keith Smith	Non-Fiction	1997	23.83	58

# LIST ALL CUSTOMERS FROM THE CANADA



```
SELECT
  *
FROM
  Customers
WHERE
  Country = 'Canada';
```

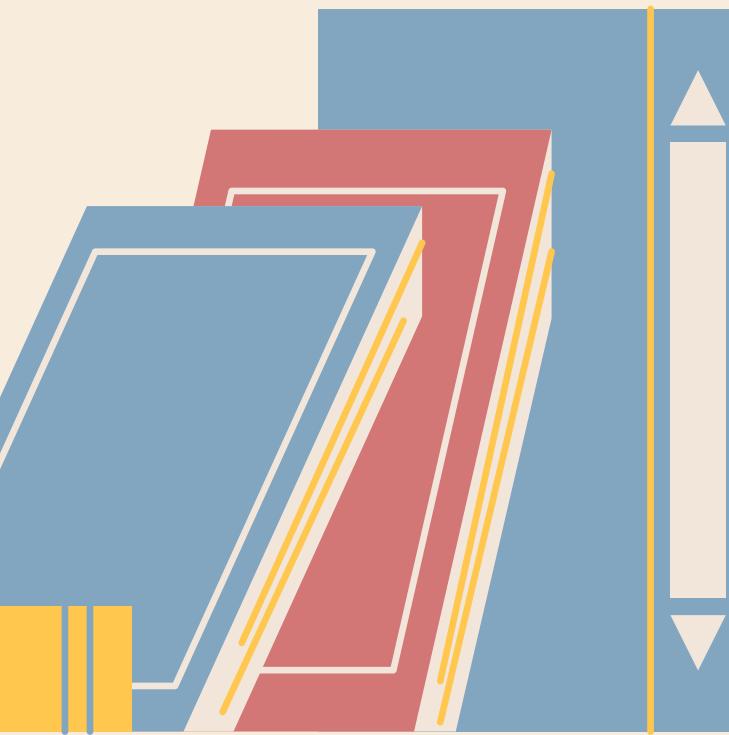


	Customer_ID	Name	Email	Phone	City	Country
▶	38	Nicholas Harris	christine93@perkins.com	1234567928	Davistown	Canada
	415	James Ramirez	robert54@hall.com	1234568305	Maxwelltown	Canada
	468	David Hart	stokesrebecca@gmail.com	1234568358	Thompsonfurt	Canada

# SHOW ORDERS PLACED IN NOVEMBER 2023



```
SELECT
*
FROM
orders
WHERE
order_date BETWEEN '2023-11-01' AND '2023-11-30';
```

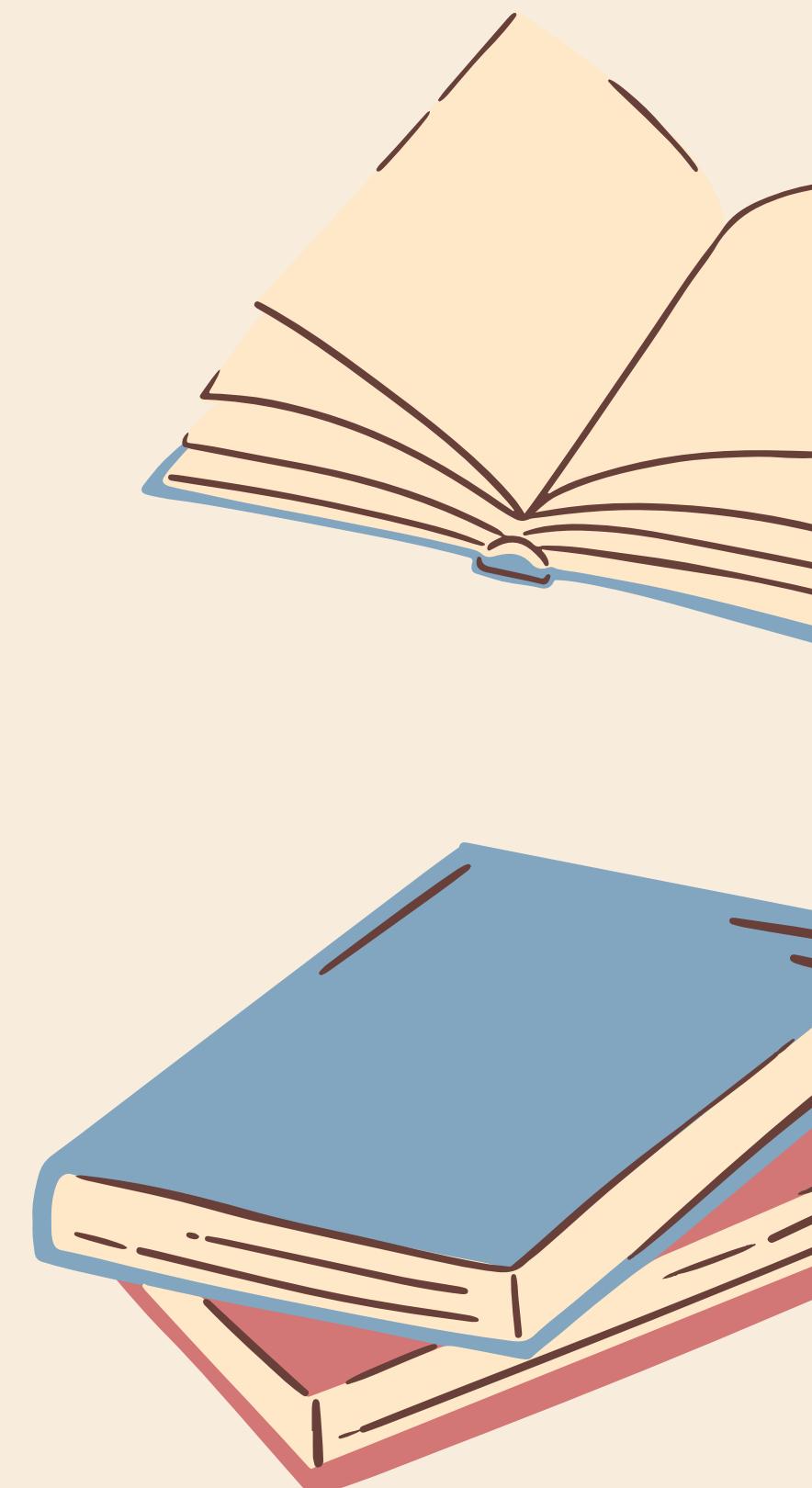
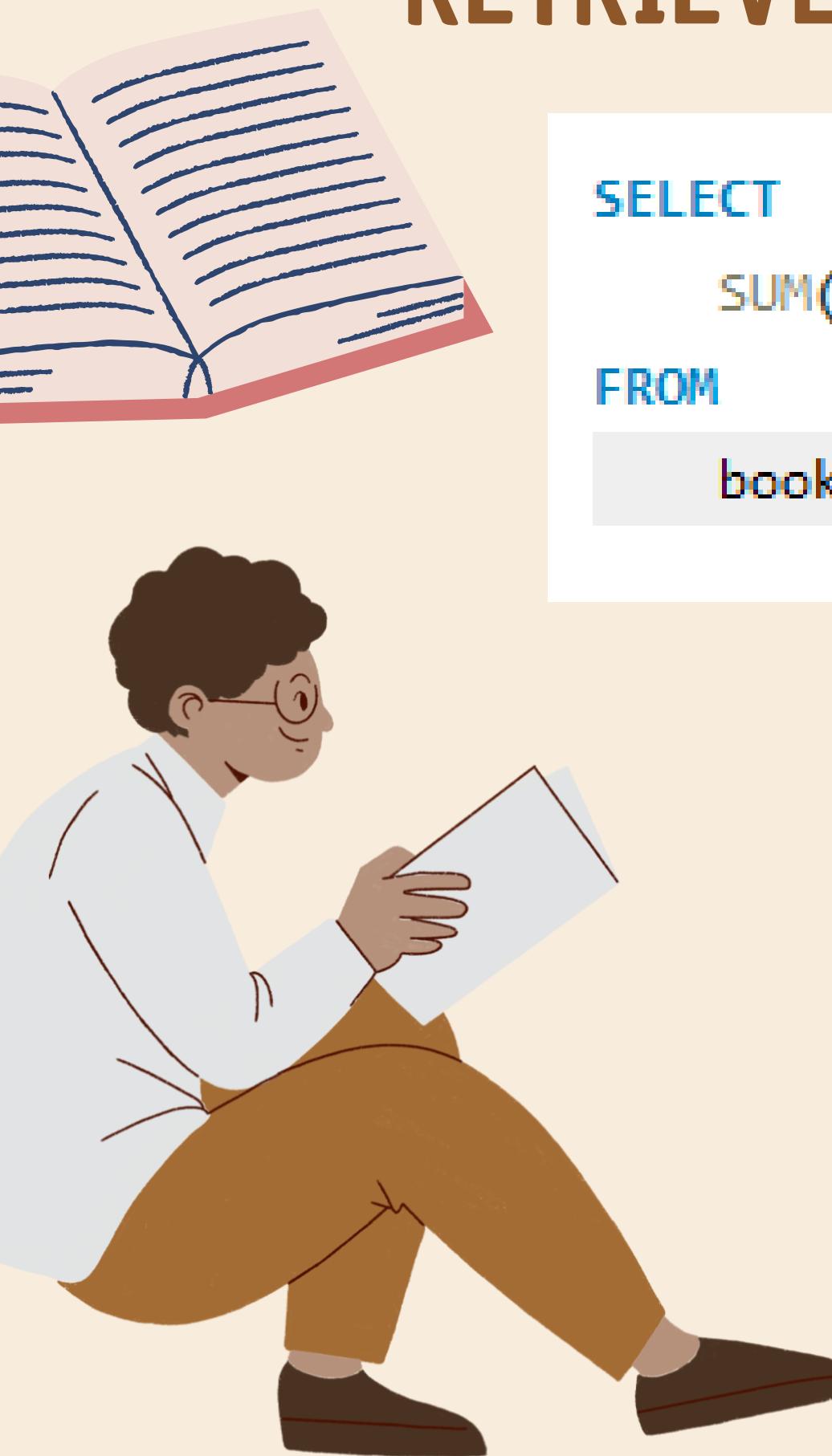


	Order_ID	Customer_ID	Book_ID	Order_Date	Quantity	Total_Amount
▶	4	433	343	2023-11-25	7	301.21
	19	496	60	2023-11-17	9	316.26
	75	291	375	2023-11-30	5	170.75
	132	469	333	2023-11-22	7	194.32
	137	474	471	2023-11-25	8	363.04
	163	207	384	2023-11-23	3	101.76
	182	129	293	2023-11-01	7	125.51
	200	313	303	2023-11-23	1	6.57
	213	325	447	2023-11-17	7	253.75
	231	22	384	2023-11-11	1	33.92

# RETRIEVE THE TOTAL STOCK OF BOOKS AVAILABE

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

	Total_Stock
▶	25056



# FIND THE DETAILS OF THE MOST EXPENSIVE BOOK



```
SELECT  
    Book_id, Author, Genre, Price  
FROM  
    books  
ORDER BY price DESC  
LIMIT 1;
```

	Book_id	Author	Genre	Price
▶	340	Robert Scott	Mystery	49.98



# SHOW THE CUSTOMERS WHO ORDER MORE THAN 1 QUANTITY OF A BOOK

SELECT

\*

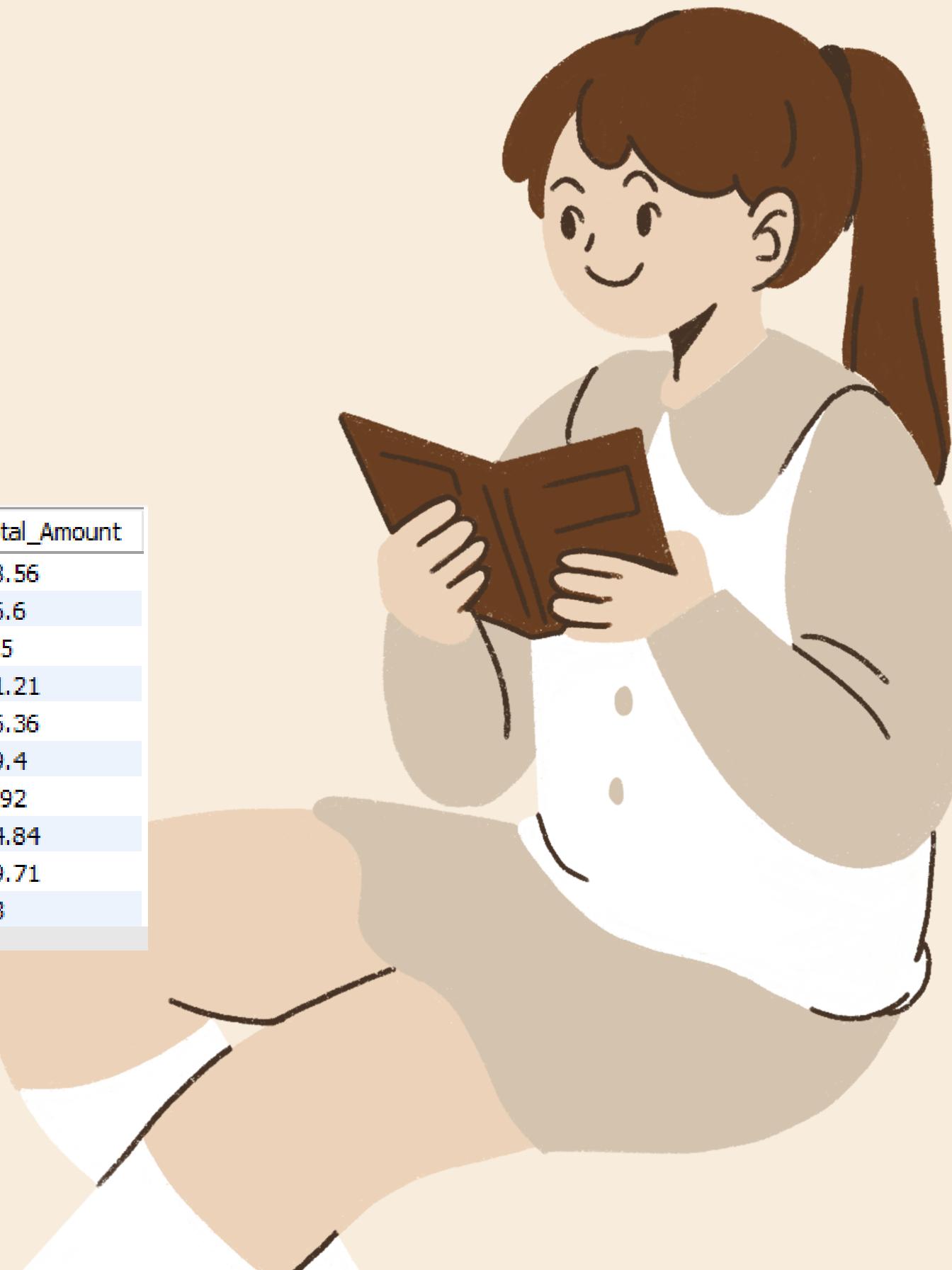
FROM

orders

WHERE

Quantity > 1;

	Order_ID	Customer_ID	Book_ID	Order_Date	Quantity	Total_Amount
▶	1	84	169	2023-05-26	8	188.56
	2	137	301	2023-01-23	10	216.6
	3	216	261	2024-05-27	6	85.5
	4	433	343	2023-11-25	7	301.21
	5	14	431	2023-07-26	7	136.36
	6	439	119	2024-10-11	5	249.4
	7	195	467	2023-10-23	6	82.92
	8	32	159	2024-05-07	4	144.84
	9	109	407	2024-01-04	9	379.71
	10	94	122	2024-07-09	4	123



# Retrieve all Orders Where the total amount Exceeds \$20

SELECT

    Order\_date, Quantity, Total\_Amount

FROM

    orders

WHERE

    Total\_Amount > 20;

	Order_date	Quantity	Total_Amount
▶	2023-05-26	8	188.56
	2023-01-23	10	216.6
	2024-05-27	6	85.5
	2023-11-25	7	301.21
	2023-07-26	7	136.36
	2024-10-11	5	249.4
	2023-10-23	6	82.92
	2024-05-07	4	144.84
	2024-01-04	9	379.71
	2024-07-09	4	123



# Find the book with the lowest stock

SELECT

genre, stock

FROM

books

ORDER BY stock;

	genre	stock
▶	Science Fiction	0
	Biography	0
	Science Fiction	0
	Non-Fiction	0
	Romance	0
	Science Fiction	1
	Biography	1
	Mystery	1
	Science Fiction	1
	Science Fiction	1



# Calculate the total revenue generated from all orders

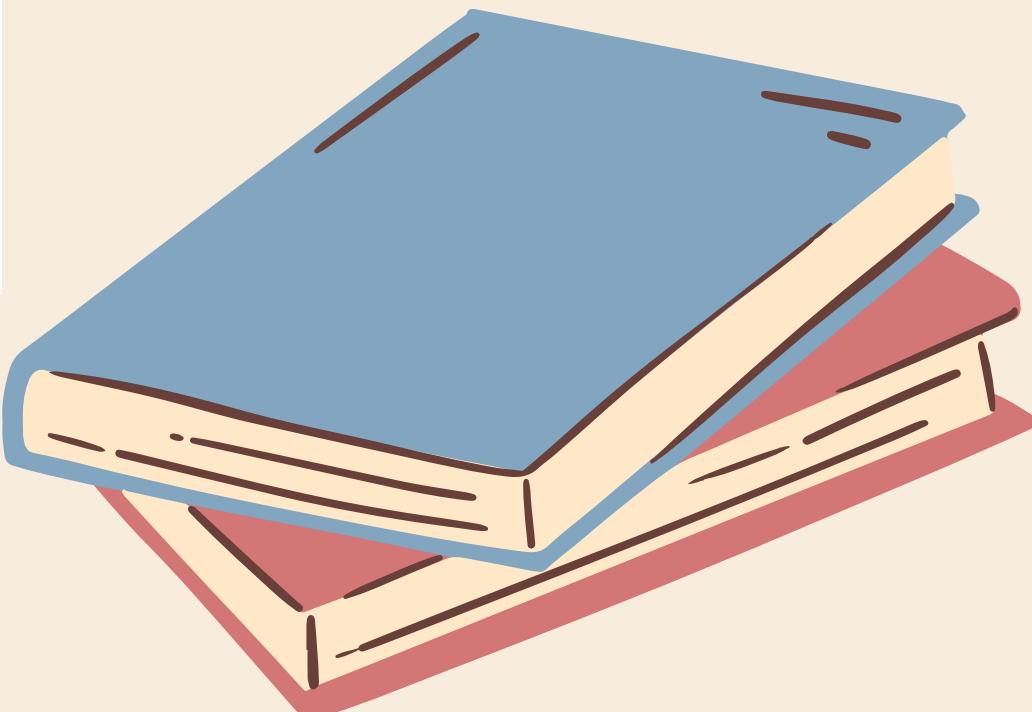
SELECT

```
ROUND(SUM(Total_amount), 2) AS Total_Revenue
```

FROM

```
orders;
```

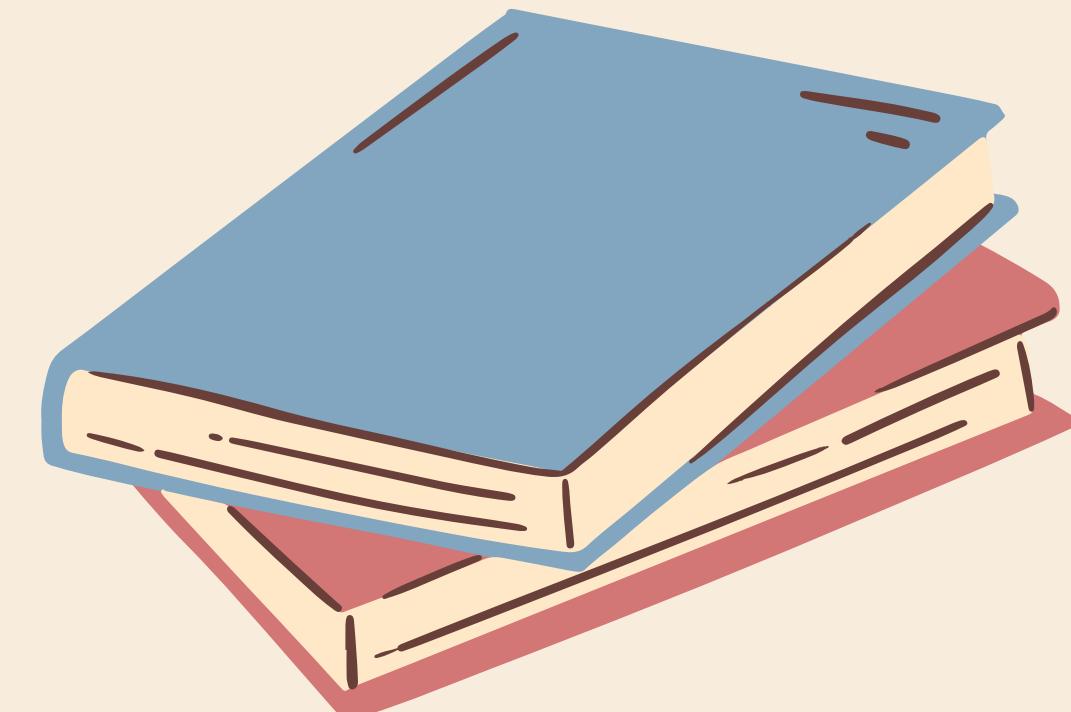
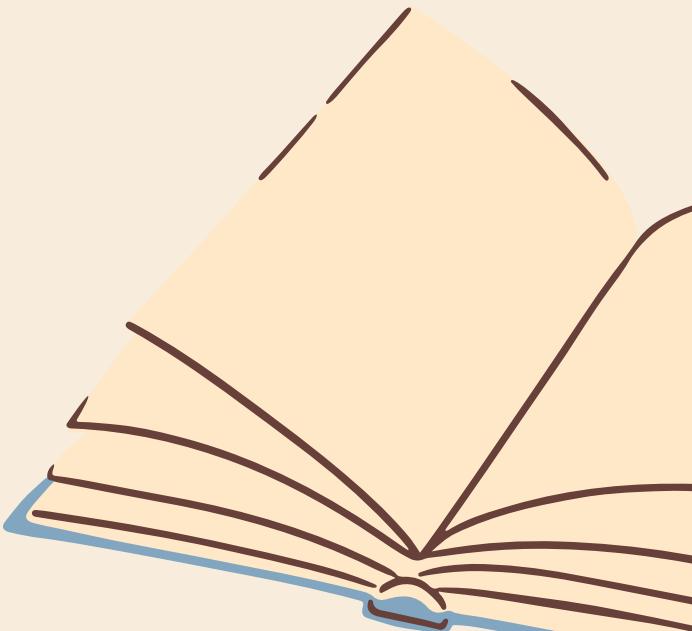
	Total_Revenue
▶	75628.66



# Retrieve the total number of books sold for each genre

```
SELECT  
    genre, SUM(Quantity) AS Total_number  
FROM  
    books b  
        JOIN  
    orders o ON b.Book_ID = o.Book_ID  
GROUP BY genre  
ORDER BY Total_number DESC;
```

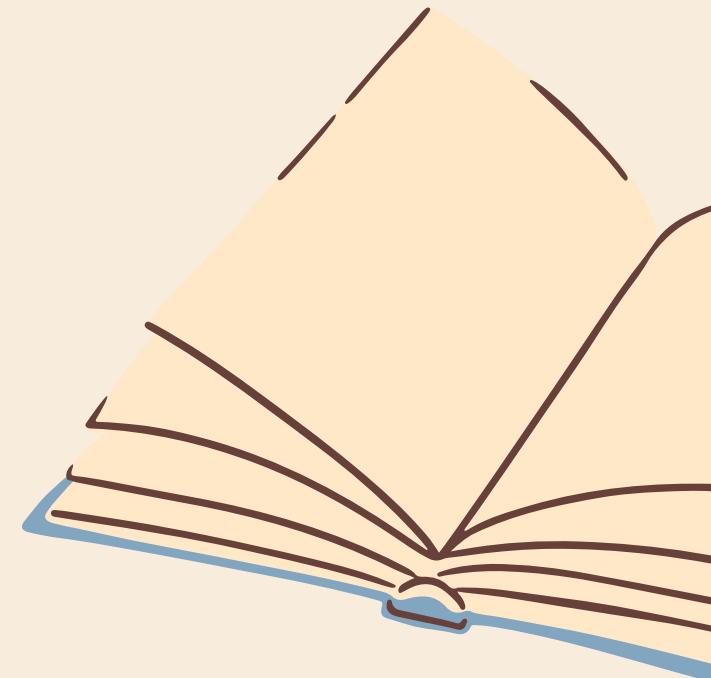
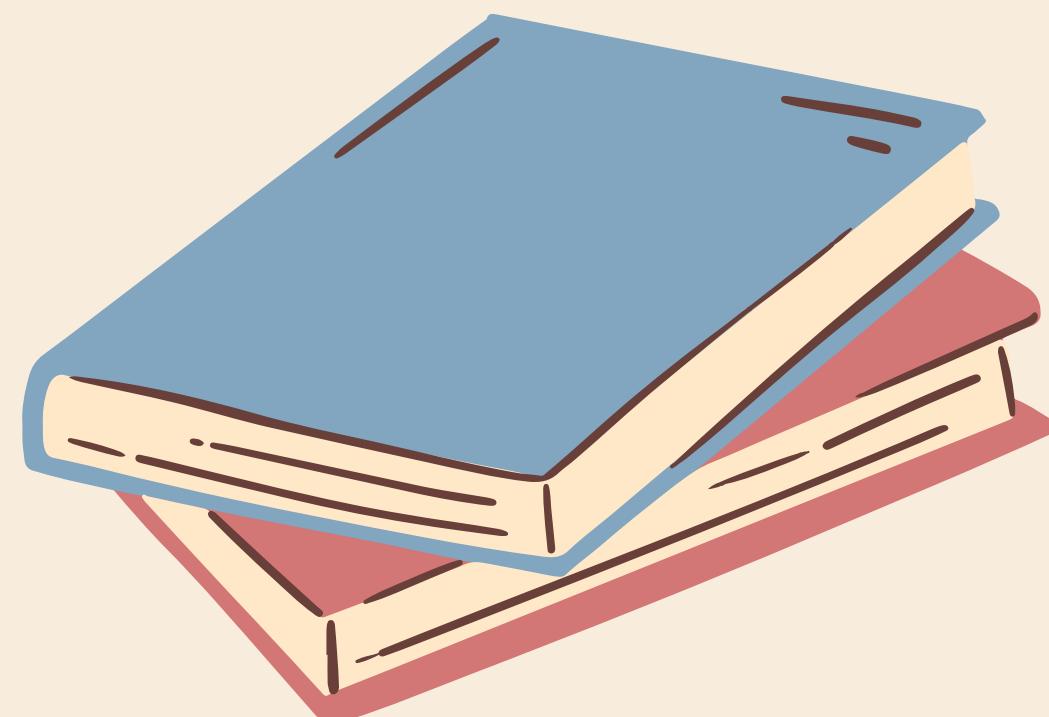
	genre	Total_number
▶	Mystery	504
	Science Fiction	447
	Fantasy	446
	Romance	439
	Non-Fiction	351
	Biography	285
	Fiction	225



# Find the average price of books in the "Fantasy" genre

```
SELECT  
    ROUND(AVG(Price), 2) AS Average_price  
FROM  
    books  
WHERE  
    Genre = 'Fantasy'  
GROUP BY Genre;
```

	Average_price
▶	25.98



# List Customers who have placed at least 2 Orders

SELECT

Customer\_ID, COUNT(order\_id) AS Order\_count

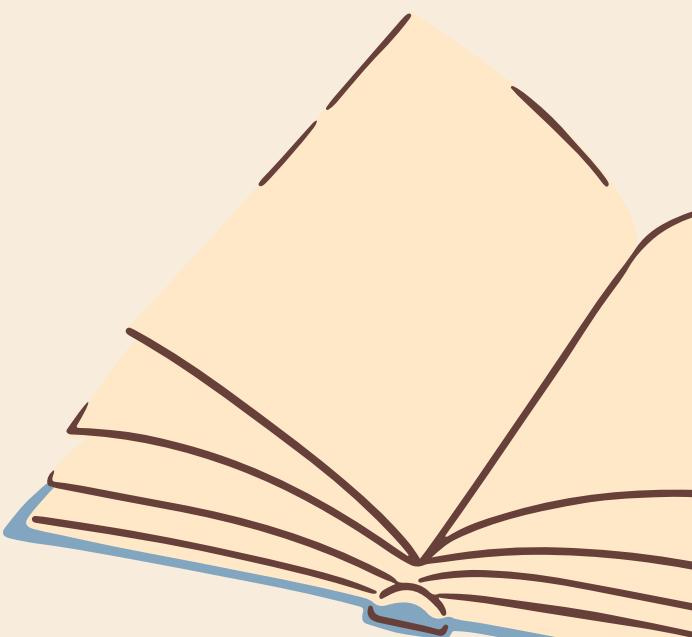
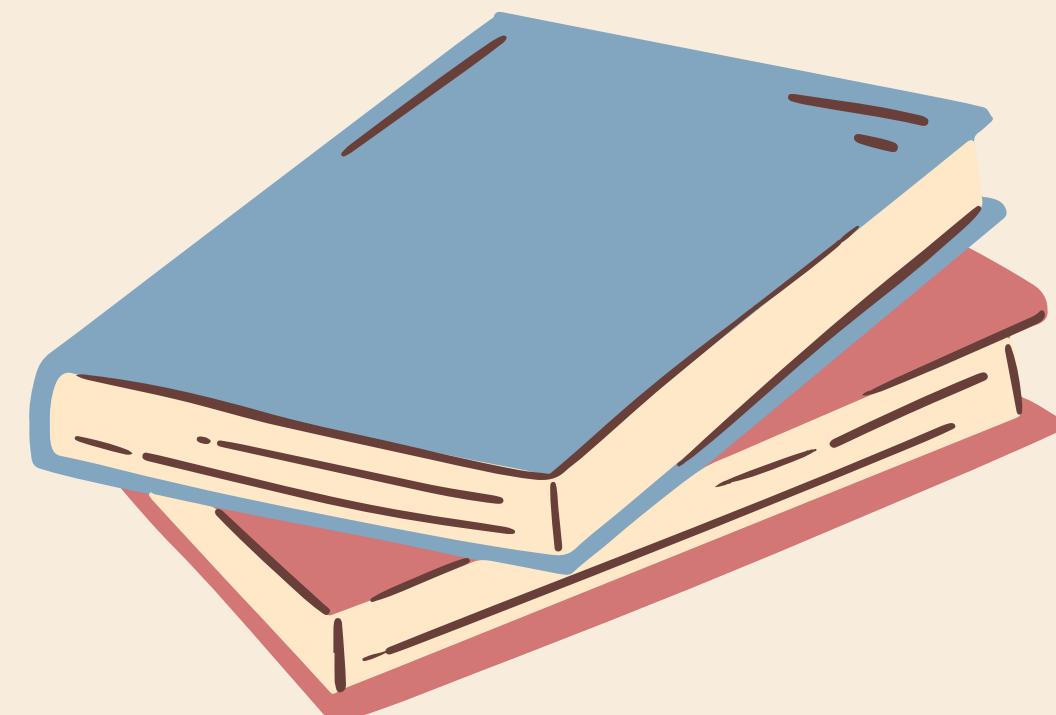
FROM

orders

GROUP BY Customer\_ID

HAVING COUNT(order\_id) >= 2;

	Customer_ID	Order_count
▶	84	2
	137	2
	216	2
	14	2
	195	3
	109	2
	94	3
	131	2
	454	2
	420	3



# Find the Most Frequently Ordered books

SELECT

    Book\_id, COUNT(order\_id) AS order\_count

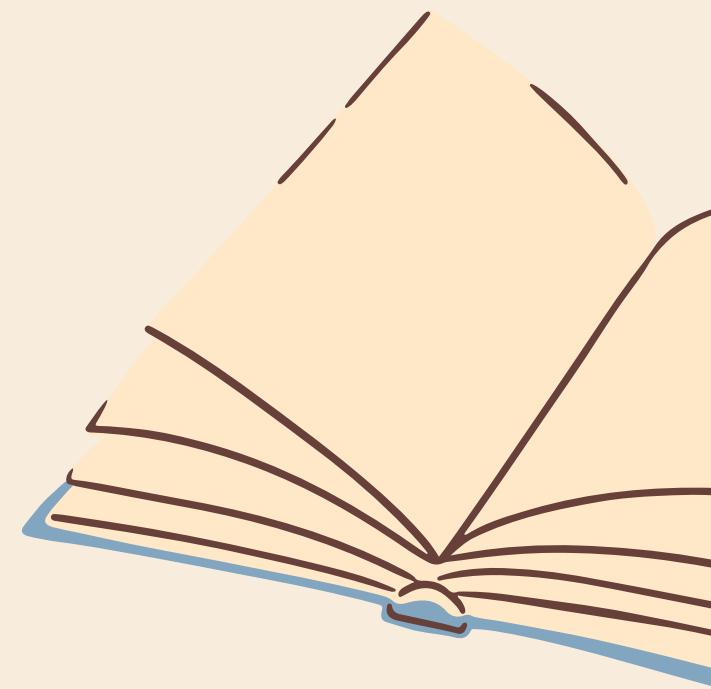
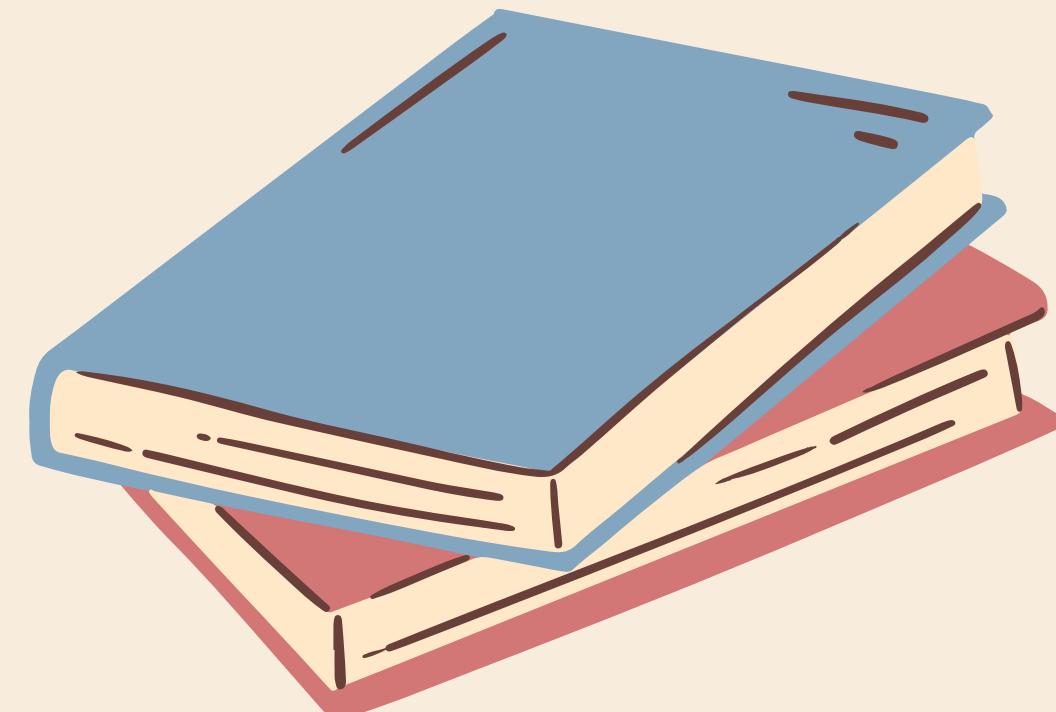
FROM

    orders

GROUP BY book\_id

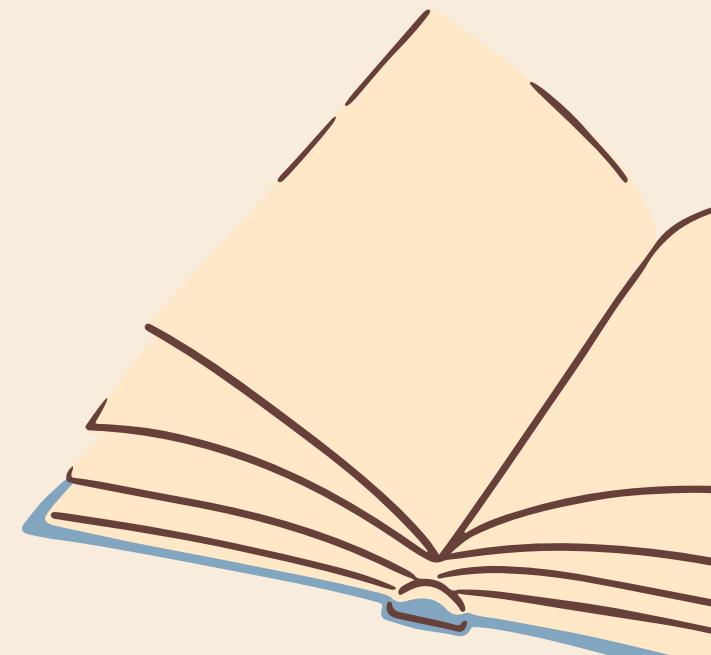
ORDER BY order\_count DESC;

	Book_id	order_count
▶	88	4
	491	4
	333	4
	31	4
	120	4
	273	4
	73	4
	119	3
	407	3
	196	3



# Show the top 3 most Expensive books of "Fantasy" Genre

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



	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
▶	240	Stand-alone content-based hub	Lisa Ellis	Fantasy	1957	49.9	41
	462	Innovative 3rdgeneration database	Allison Contreras	Fantasy	1988	49.23	62
	238	Optimized even-keeled analyzer	Sherri Griffith	Fantasy	1975	48.97	72

# Retrieve the total Quantity of books sold by each author

SELECT

Author, Quantity

FROM

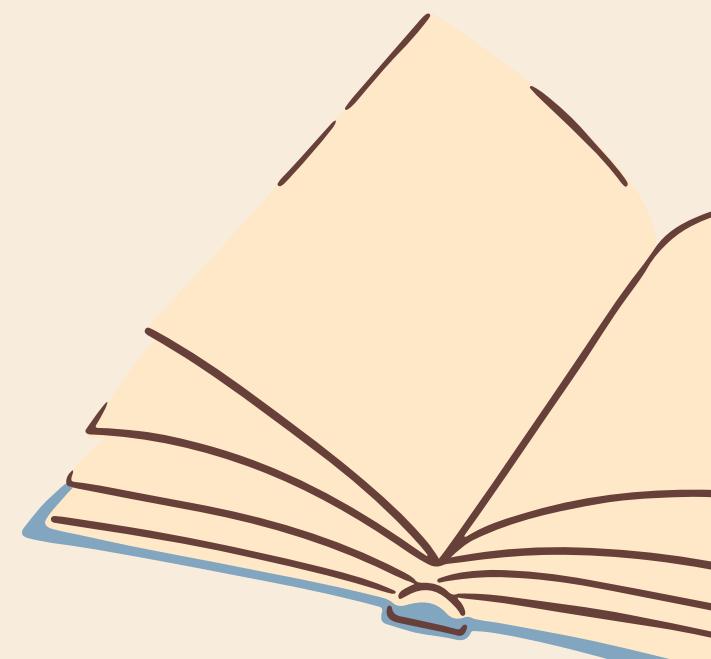
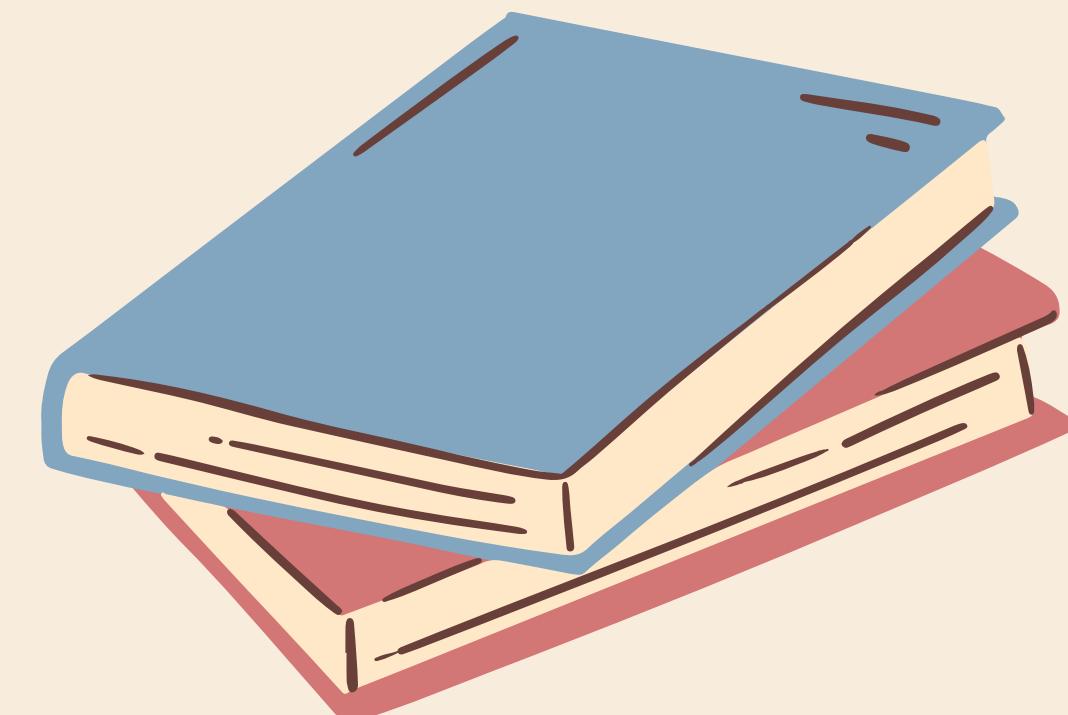
books b

JOIN

orders o ON b.Book\_ID = o.Book\_ID

ORDER BY Author DESC;

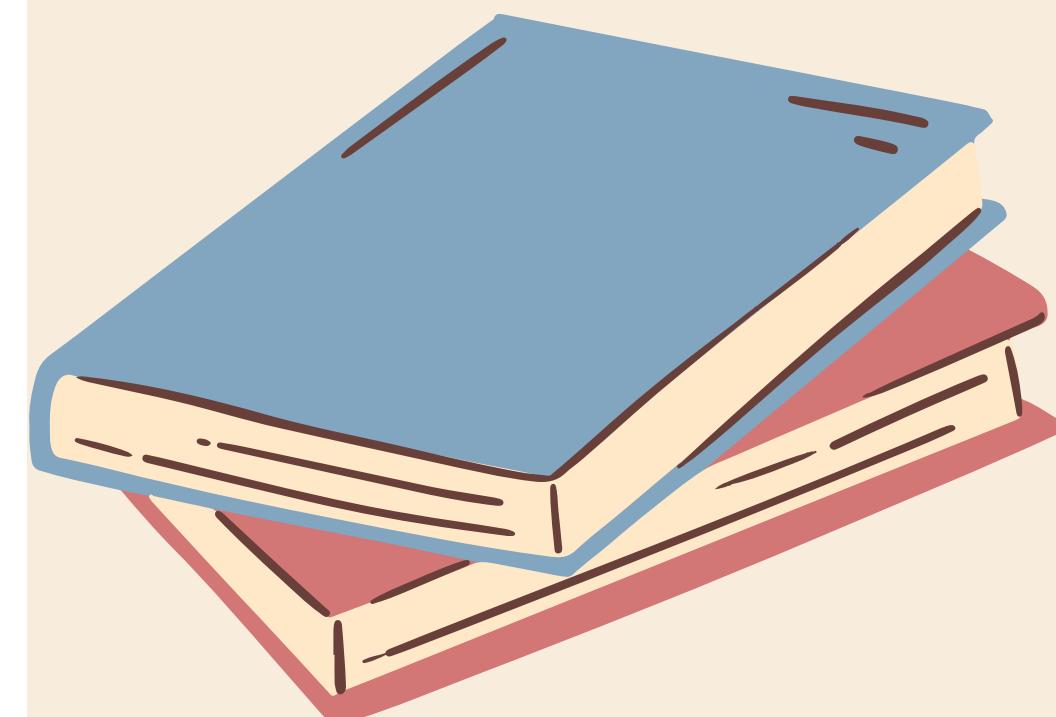
	Author	Quantity
▶	Zachary Williams	10
	Zachary Williams	9
	Zachary Hayes	9
	Zachary Hayes	6
	Zachary Buchanan	1
	Yolanda Mclean	3
	William Turner	9
	William Drake	5
	William Drake	5
	Wayne Hall	2



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

```
SELECT DISTINCT  
    city, total_amount  
FROM  
    orders o  
        JOIN  
    customers c ON o.customer_id = c.customer_id  
WHERE  
    total_amount > 30;
```

	city	total_amount
▶	East Derekberg	298.06
	Hamiltonstad	148.02
	Kirstenborough	95.85
	Kirstenborough	44.61
	Lake Benjamin	192.12
	West Monicabury	221.8
	South Ashleychester	39.51
	Lake Robert	48.8
	Lake Robert	290.94
	Richardsonville	246.7



# Find the customer who Spent the most on orders

```
SELECT  
    c.customer_id,  
    c.name,  
    ROUND(SUM(o.total_amount), 1) 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	name	Total_spent
▶	457	Kim Turner	1398.9

