

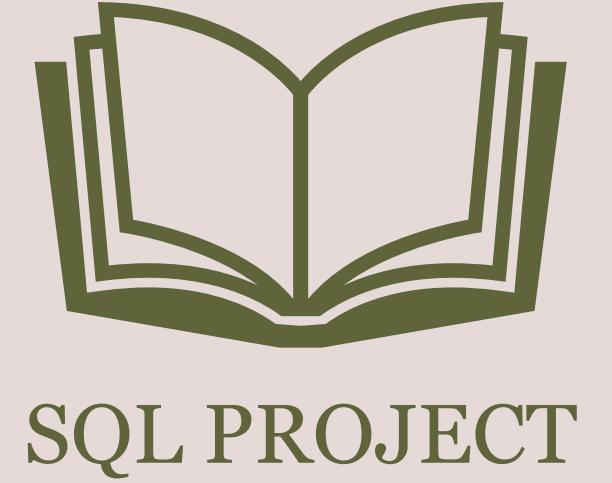


SHUBHAM SHARMA

PROJECT

[linkedin.com/in/shubham-sharma190](https://www.linkedin.com/in/shubham-sharma190)

github.com/shubhamshar19



HELLO EVERYONE

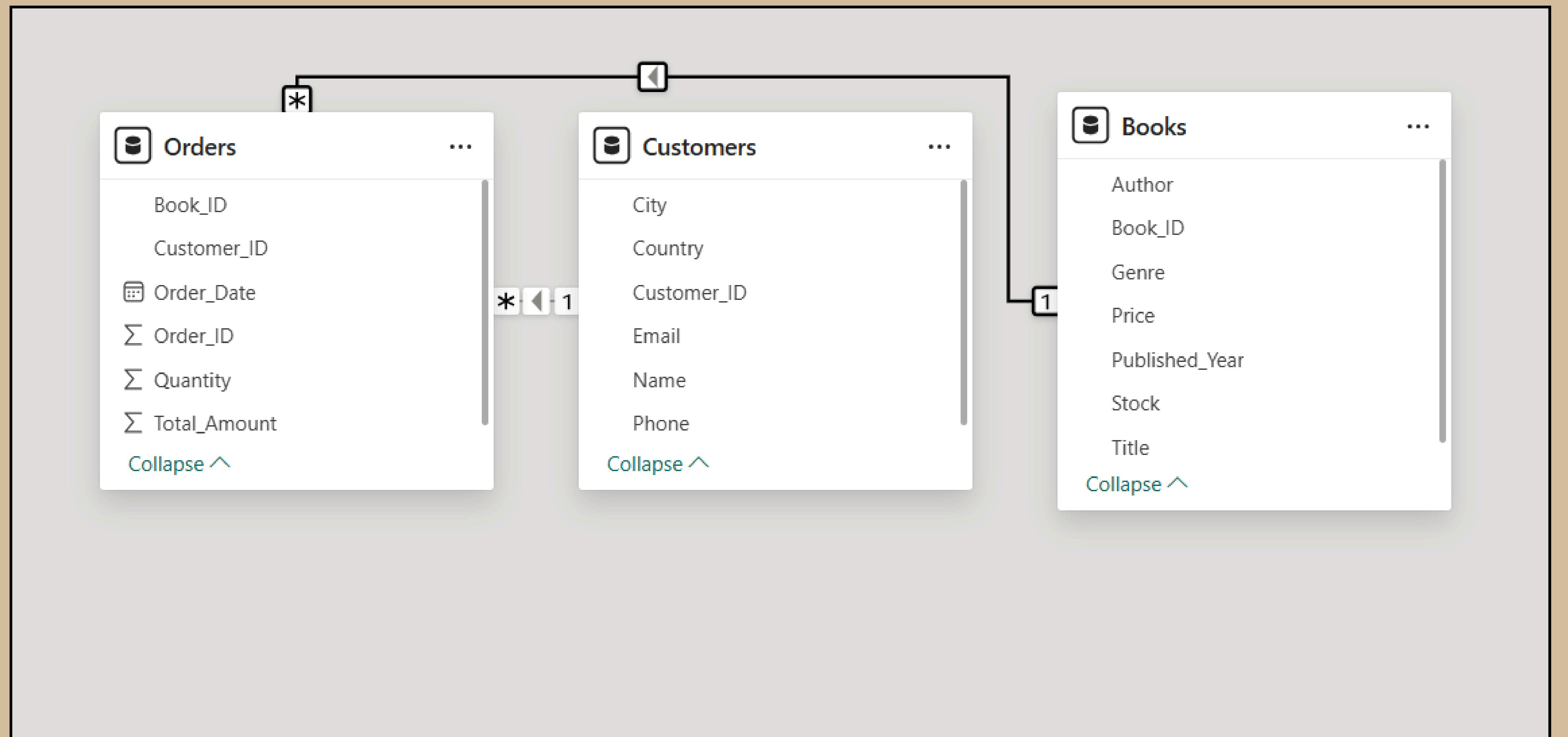
I AM SHUBHAM SHARMA

As an aspiring data analyst, I leveraged my SQL skills to analyze book store data ,
uncovering valuable business insights
to support data-driven decision-making

[linkedin.com/in/shubham-sharma190](https://www.linkedin.com/in/shubham-sharma190)

github.com/shubhamshar19

DATABASE SCHEMA



QUERIES

- RETRIEVE ALL BOOKS IN THE "FICTION" GENRE .

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



	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
	4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52	1
	22	Multi-layered optimizing migration	Wesley Escobar	Fiction	1908	39.23	1
	28	Expanded analyzing portal	Lisa Coffey	Fiction	1941	37.51	1
	29	Quality-focused multi-tasking challenge	Katrina Underwood	Fiction	1905	31.12	1
	31	Implemented encompassing conglomerati...	Melissa Taylor	Fiction	2010	21.23	1
	39	Optimized national process improvement	Megan Goodwin	Fiction	1978	10.99	1
	40	Adaptive didactic interface	Natalie Gonzalez	Fiction	1923	25.97	1
	47	Reverse-engineered directional conglomer...	John Christian	Fiction	2006	20.37	1
	62	Re-contextualized real-time strategy	Nicole Lynch	Fiction	1953	26.34	1

Total rows: 60

Query complete 00:00:00.156



QUERIES



SHUBHAM SHARMA

FIND BOOKS PUBLISHED AFTER THE YEAR 1950 .

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

	book_id [PK] integer	title character varying (100)	author character varying (100)	genre character varying (50)	published_year integer	price numeric (10,2)
1	2	Persevering reciprocal knowledge user	Mario Moore	Fantasy	1971	35.80
2	4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52
3	5	Adaptive 5thgeneration encoding	Juan Miller	Fantasy	1956	10.95
4	6	Advanced encompassing implementation	Bryan Morgan	Biography	1985	6.56
5	8	Persistent local encoding	Troy Cox	Science Fiction	2019	48.99
6	9	Optimized interactive challenge	Colin Buckley	Fantasy	1987	14.33
7	10	Ergonomic national hub	Samantha Ruiz	Mystery	2015	24.63
8	11	Secured zero tolerance time-frame	Denise Barnes	Fantasy	1998	35.95
9	12	Polarized optimal array	Destiny Scott	Non-Fiction	1989	27.43

Total rows: 292 Query complete 00:00:00.144

LIST ALL CUSTOMERS FROM THE CANADA.

```
SELECT * FROM customers  
WHERE country = 'Canada';
```

	customer_id [PK] integer	name character varying (100)	email character varying (100)	phone character varying (15)	city character varying (50)	country character varying (150)
1	38	Nicholas Harris	christine93@perkins.com	1234567928	Davistown	Canada
2	415	James Ramirez	robert54@hall.com	1234568305	Maxwelltown	Canada
3	468	David Hart	stokesrebecca@gmail.com	1234568358	Thompsonfurt	Canada



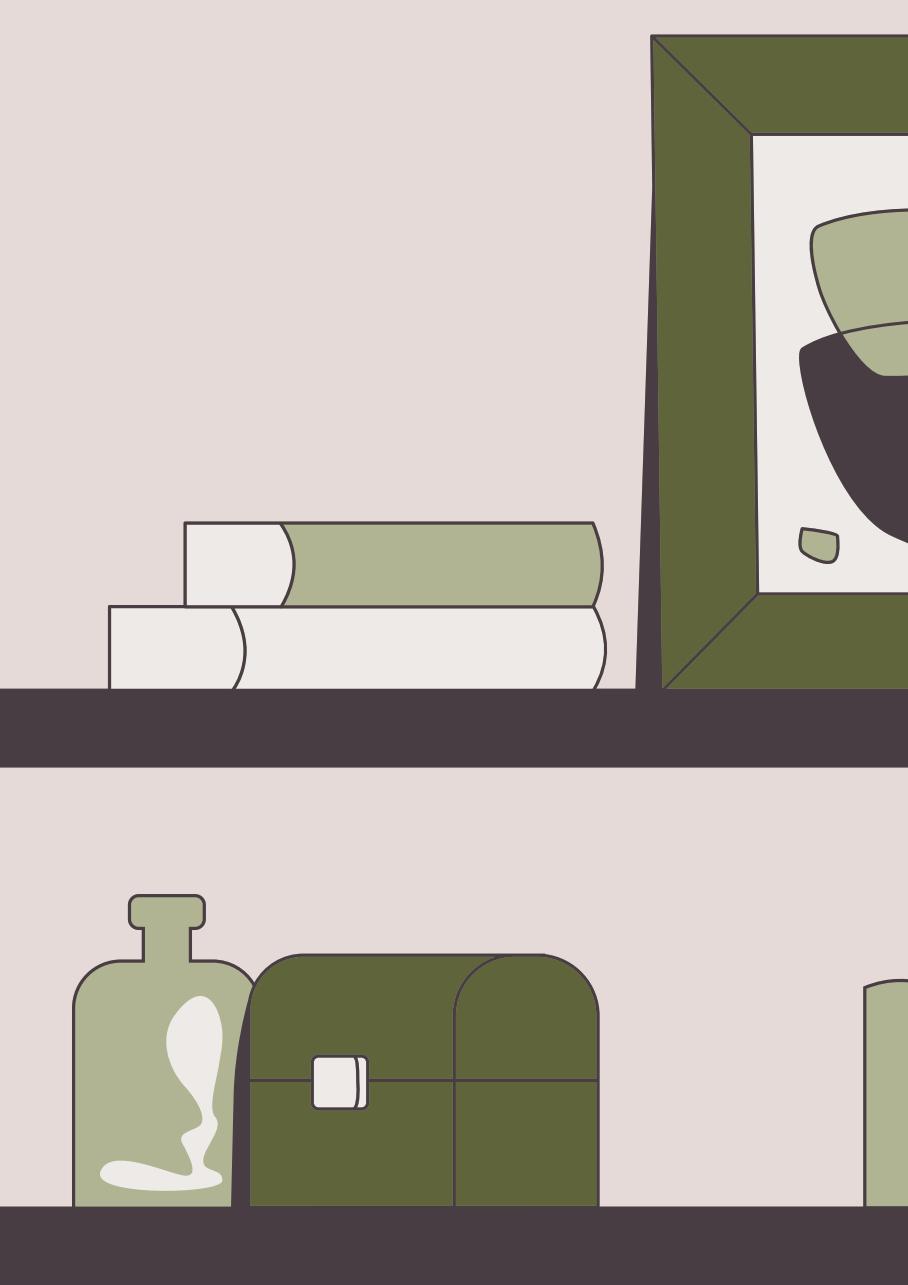
QUERIES

SHUBHAM SHARMA

● RETRIEVE THE TOTAL STOCK OF BOOKS AVAILABLE .

```
SELECT SUM(stock) AS Total_stock  
FROM books;
```

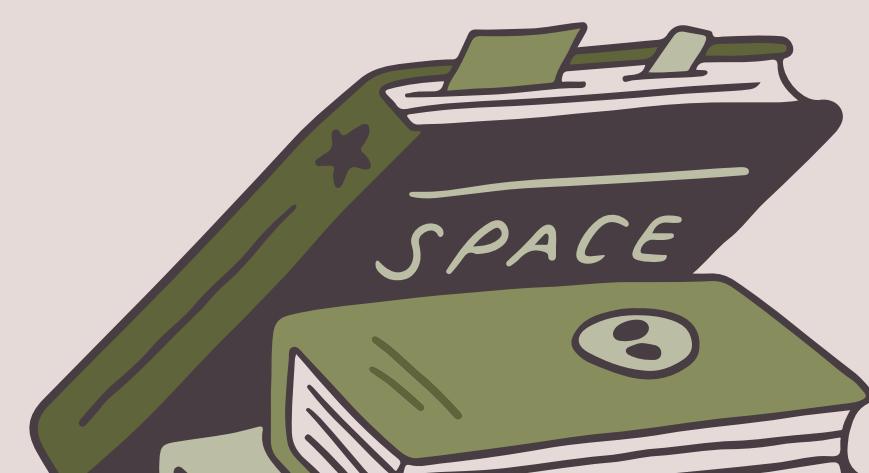
	total_stock
	bigint
1	25056



● FIND THE DETAILS OF THE MOST EXPENSIVE BOOK .

```
SELECT * FROM books  
ORDER BY price DESC  
LIMIT 5;
```

	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	340	Proactive system-worthy orchestration	Robert Scott	Mystery	1907	49.98	88
2	155	Optimized content-based standardiza...	Timothy Adams	Science Fiction	1901	49.96	88
3	240	Stand-alone content-based hub	Lisa Ellis	Fantasy	1957	49.90	41
4	100	Synchronized client-server service-desk	James Alvarado	Fiction	1906	49.89	29
5	119	Switchable modular moratorium	Tonya Saunders	Romance	2010	49.88	76





QUERIES

SHUBHAM SHARMA

RETRIEVE ALL ORDERS WHERE THE TOTAL AMOUNT EXCEEDS \$20 .

```
SELECT customers.name,orders.book_id,orders.order_date,orders.quantity,orders.total_amount
FROM customers
JOIN orders
ON customers.customer_id = orders.customer_id
WHERE total_amount>20;
```

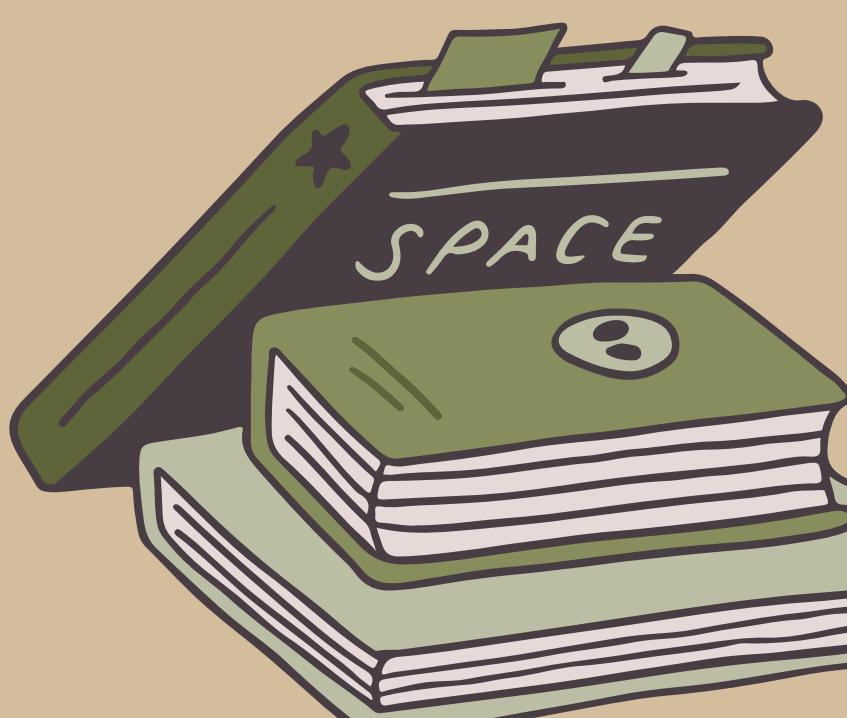
	name character varying (100)	book_id integer	order_date date	quantity integer	total_amount numeric (10,2)
1	Gary Blair	169	2023-05-26	8	188.56
2	Steven Miller	301	2023-01-23	10	216.60
3	Phillip Allen	261	2024-05-27	6	85.50
4	Corey Wells	343	2023-11-25	7	301.21
5	John Wood	431	2023-07-26	7	136.36
6	Shane Chang	119	2024-10-11	5	249.40
7	Dominique Turner	467	2023-10-23	6	82.92
8	Jeffrey Shannon	159	2024-05-07	4	144.84
9	Jacob Kelley	407	2024-01-04	9	379.71

Total rows: 473 Query complete 00:00:00.103

SHOW ALL CUSTOMERS WHO ORDERED MORE THAN 1 QUANTITY OF A BOOK .

```
SELECT customers.name,orders.quantity
FROM customers
JOIN orders
ON customers.customer_id = orders.customer_id
WHERE quantity>1;
```

	name character varying (100)	quantity integer
1	Gary Blair	8
2	Steven Miller	10
3	Phillip Allen	6
4	Corey Wells	7
5	John Wood	7



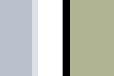
QUERIES

SHUBHAM SHARMA

- LIST ALL GENRES AVAILABLE IN THE BOOKS TABLE .



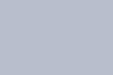
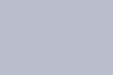
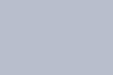
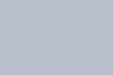
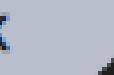
```
SELECT DISTINCT(genre)  
FROM books;
```

	genre character varying (50) 
1	Romance
2	Biography
3	Mystery
4	Fantasy
5	Fiction
6	Non-Fiction
7	Science Fiction



- FIND THE BOOK WITH THE LOWEST STOCK .

```
SELECT * FROM books  
ORDER BY stock ASC  
LIMIT 5;
```

	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	163	Object-based eco-centric challenge	Douglas McCarthy	Non-Fiction	1905	19.11	0
2	127	Business-focused real-time benchmark	David Nelson	Science Fiction	1997	11.66	0
3	60	Robust eco-centric capacity	Brian Haney	Biography	1990	35.14	0
4	44	Networked systemic implementation	Ryan Frank	Science Fiction	1965	13.55	0
5	378	Future-proofed heuristic function	Samantha McClain	Romance	1903	6.01	0



QUERIES

SHUBHAM SHARMA

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 books.genre,SUM(orders.quantity) AS books_sold  
FROM books  
JOIN orders  
ON books.book_id = orders.book_id  
GROUP BY books.genre;
```

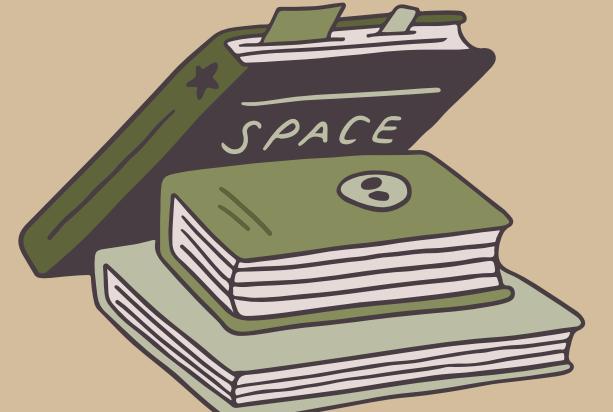
	genre character varying (50)	books_sold bigint
1	Romance	439
2	Biography	285
3	Mystery	504
4	Fantasy	446
5	Fiction	225
6	Non-Fiction	351
7	Science Fiction	447



QUERIES

SHUBHAM SHARMA

- FIND THE AVERAGE PRICE OF BOOKS IN THE "FANTASY" GENRE .



```
SELECT ROUND (AVG(price),2 )AS avg_price  
FROM books  
WHERE genre = 'Fantasy';
```



	avg_price	numeric
1		25.98



- LIST CUSTOMERS WHO HAVE PLACED AT LEAST 2 ORDERS .

```
SELECT customers.name,orders.customer_id,COUNT(orders.order_id) AS order_count  
FROM orders  
JOIN customers  
ON orders.customer_id = customers.customer_id  
GROUP BY customers.name, orders.customer_id  
HAVING COUNT(orders.order_id)>= 2;
```

	name character varying (100)	customer_id integer	order_count bigint
1	Sarah Cameron	290	3
2	Levi Pierce	96	2
3	Christina Mitchell	24	2
4	Andrew Collins	59	3
5	John Wood	14	2
6	Justin Roberson	178	2
7	Jessica Mays	145	2
8	Stacey Flores	16	3
9	Kiara Blankenship MD	418	3

Total rows: 139 Query complete 00:00:00.072





QUERIES

SHUBHAM SHARMA

FIND THE MOST FREQUENTLY ORDERED BOOK .

	title character varying (100)	book_id integer	order_count bigint
1	Pre-emptive intangible adapter	491	4

```
SELECT books.title,orders.book_id,COUNT(orders.order_id) AS order_count
FROM orders
JOIN books
ON orders.book_id = books.book_id
GROUP BY books.title,orders.book_id
ORDER BY order_count DESC
LIMIT 1;
```



SHOW THE TOP 3 MOST EXPENSIVE BOOKS OF 'FANTASY' GENRE .

	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	240	Stand-alone content-based hub	Lisa Ellis	Fantasy	1957	49.90	41
2	462	Innovative 3rdgeneration database	Allison Contreras	Fantasy	1988	49.23	62
3	238	Optimized even-keeled analyzer	Sherri Griffith	Fantasy	1975	48.97	72

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

● RETRIEVE THE TOTAL QUANTITY OF BOOKS SOLD BY EACH AUTHOR .

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



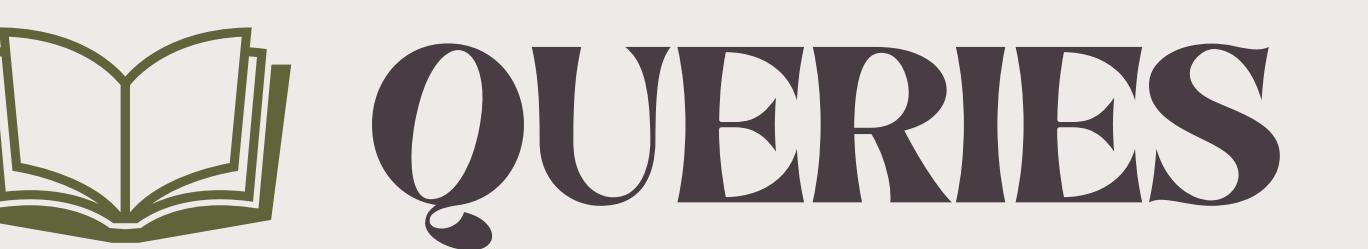
	author character varying (100)	books_sold bigint
1	Jared Cortez	10
2	Tracy Parker	11
3	Taylor Wang	9
4	Cathy Knight	6
5	Bianca Matthews	3
6	Douglas Malone	6
7	James Alvarado	9
8	Betty Cross	6
9	Michael Hill	20

Total rows: 314 Query complete 00:00:00.187

● LIST THE CITIES WHERE CUSTOMERS WHO SPENT OVER \$30 ARE LOCATED .

```
SELECT DISTINCT(customers.city),orders.total_amount,customers.name
FROM orders
JOIN customers
ON orders.customer_id = customers.customer_id
WHERE orders.total_amount > 30;
```

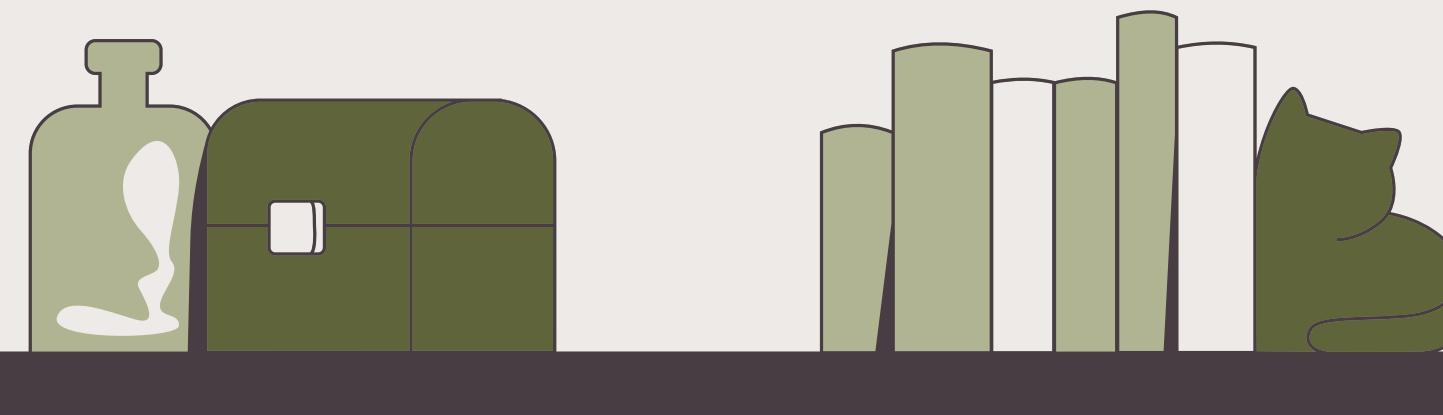
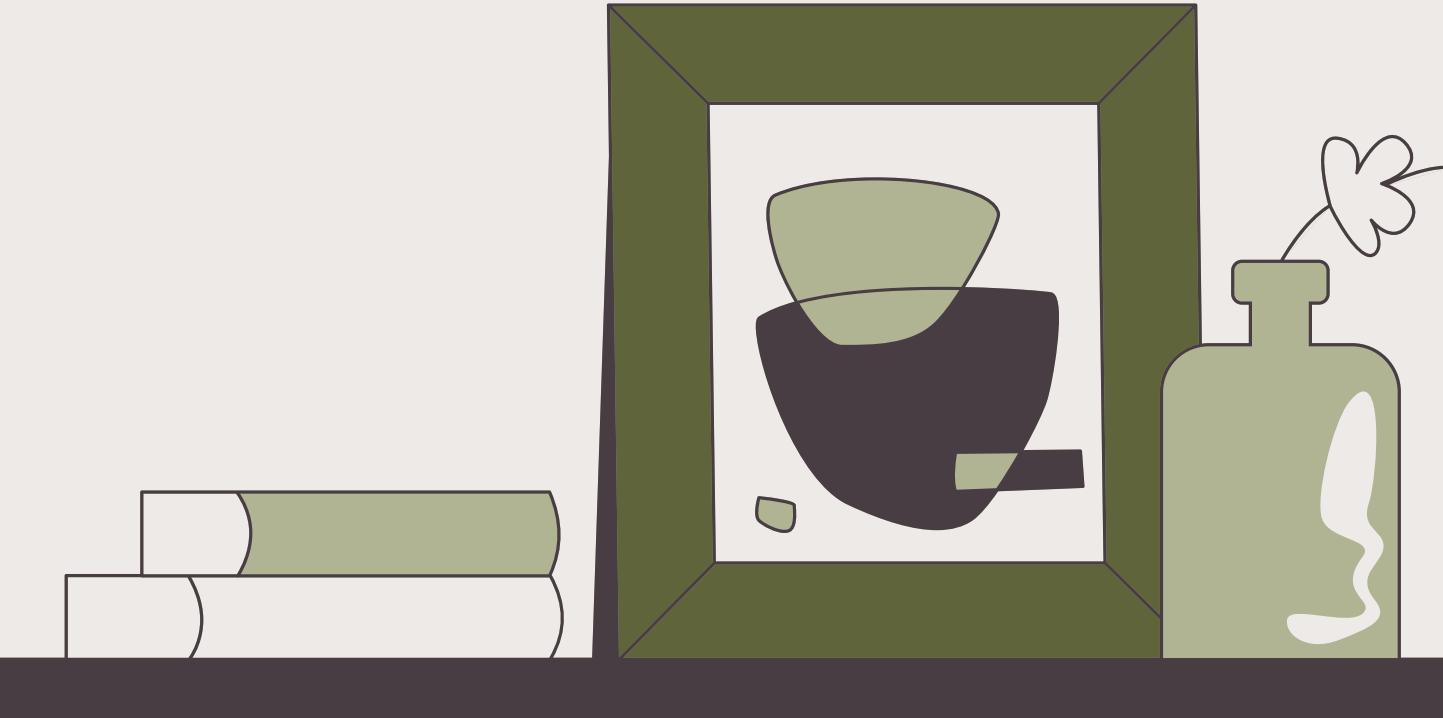
	city character varying (50)	total_amount numeric (10,2)	name character varying (100)
1	Richardsonville	246.70	John Wood
2	Marshallbury	158.55	Miguel Jacobs
3	North Amandastad	107.04	Michelle Esparza
4	Gentryfort	209.04	Matthew Gardner
5	New Kylefurt	296.04	Jeffrey Howard
6	Michelleview	57.72	Rebecca Perez
7	Richardburgh	62.60	David Hale
8	Hallshire	301.21	Russell Thompson



FIND THE CUSTOMER WHO SPENT THE MOST ON ORDERS .

```
SELECT customers.customer_id,customers.name,SUM(orders.total_amount) as total_spent  
FROM orders  
JOIN customers  
ON orders.customer_id = customers.customer_id  
GROUP BY customers.customer_id,customers.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



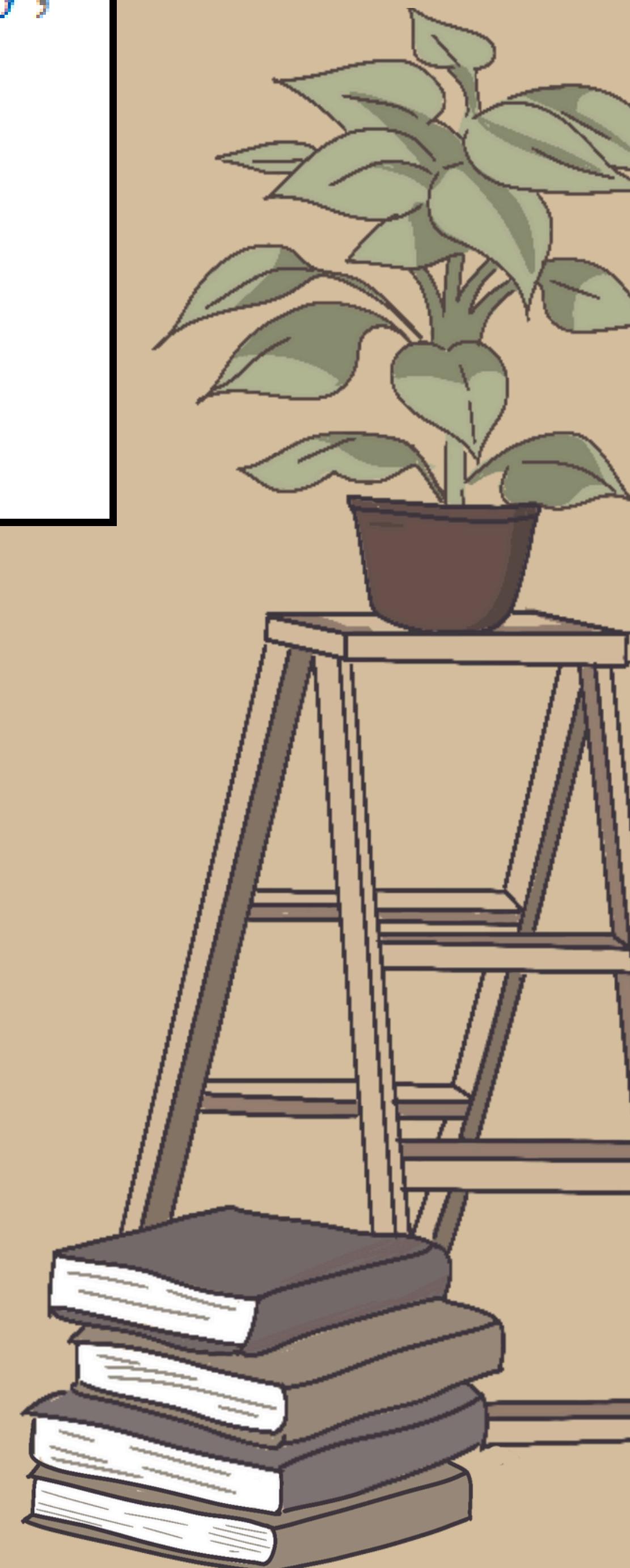
● CALCULATE THE STOCK REMAINING AFTER FULFILLING ALL ORDERS .

```
SELECT books.book_id, books.title, books.stock, COALESCE(SUM(orders.quantity), 0) AS order_quantity,  
books.stock - COALESCE(SUM(orders.quantity), 0) AS remaining_stock  
FROM books  
LEFT JOIN orders  
ON books.book_id = orders.book_id  
GROUP BY books.book_id  
ORDER BY books.book_id;
```

	book_id [PK] integer	title character varying (100)	stock integer	order_quantity bigint	remaining_stock bigint
1	1	Configurable modular throughput	100	3	97
2	2	Persevering reciprocal knowledge user	19	0	19
3	3	Streamlined coherent initiative	27	5	22
4	4	Customizable 24hour product	8	0	8
5	5	Adaptive 5thgeneration encoding	16	8	8
6	6	Advanced encompassing implementation	2	0	2
7	7	Open-architected exuding structure	95	5	90
8	8	Persistent local encoding	84	3	81
9	9	Optimized interactive challenge	70	0	70

Total rows: 500

Query complete 00:00:00.122



SQL PROJECT

THANK YOU

FOR YOUR TIME AND ATTENTION



[linkedin.com/in/shubham-sharma190](https://www.linkedin.com/in/shubham-sharma190)



github.com/shubhamshar19



shubsharma729@gmail.com

