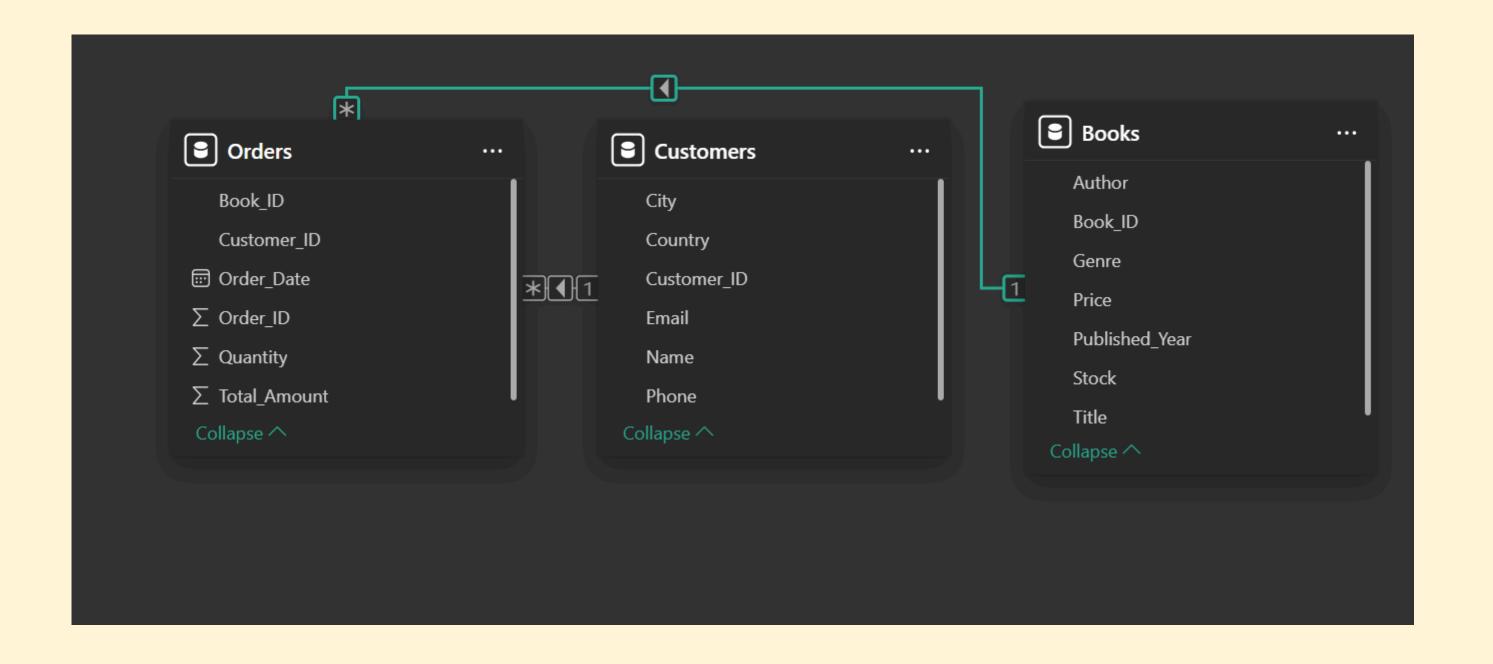


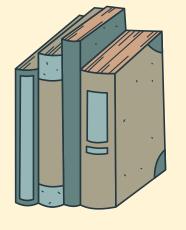
ONLINE BOOKSTORE MANAGEMENT

SQL PROJECT

Presented by: Aaditya Prajapat

DATA MODEL





I'M AADITYA PRAJAPT, A PASSIONATE DATA ANALYTICS ENTHUSIAST WITH A DRIVE FOR TRANSFORMING RAW DATA INTO MEANINGFUL BUSINESS INSIGHTS. RECENTLY, I WORKED ON A HANDS-ON SQL PROJECT FOCUSED ON ONLINE BOOK STORE



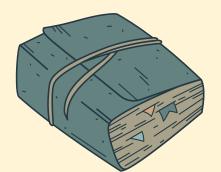
MANAGEMENT.

THIS PROJECT ENABLED ME TO:

- DESIGN AND MODEL A RELATIONAL DATABASE USING REAL-WORLD BUSINESS LOGIC.
- WRITE EFFICIENT SQL QUERIES TO EXTRACT DEEP INSIGHTS FROM CUSTOMER, ORDER, AND BOOK DATA.
- ANALYZE CUSTOMER BUYING BEHAVIOR, SALES TRENDS, INVENTORY PERFORMANCE, AND GENRE-WISE SALES DISTRIBUTION.
- DEVELOP A STRUCTURED, DATA-DRIVEN APPROACH TO IMPROVE OPERATIONAL EFFICIENCY AND DECISION-MAKING.

THROUGH THIS PROJECT, I EXPLORED THE FULL POTENTIAL OF SQL IN SOLVING PRACTICAL CHALLENGES, SUCH AS IDENTIFYING BEST-SELLING AUTHORS, TRACKING LOW-STOCK BOOKS, AND ANALYZING CUSTOMER DEMOGRAPHICS. EACH QUERY HELPED UNCOVER A NEW LAYER OF INSIGHT.

THIS EXPERIENCE SIGNIFICANTLY IMPROVED MY SKILLS IN SQL QUERYING, DATA MODELING, DATABASE RELATIONSHIPS, AND STORYTELLING WITH DATA—SKILLS THAT ARE CRITICAL FOR DATA-DRIVEN ROLES.





```
#1) Retrieve all books in the "Fiction" genre ?

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

	title
•	Customizable 24hour product
	Multi-layered optimizing migration
	Expanded analyzing portal
	Quality-focused multi-tasking challenge
	Implemented encompassing conglomeration
	Optimized national process improvement
	Adaptive didactic interface
	Reverse-engineered directional conglomeration
	Re-contextualized real-time strategy
	Polarized heuristic database

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

SELECT
   title, published_year

ROM
   books

HERE
   published_year > 1950;
```

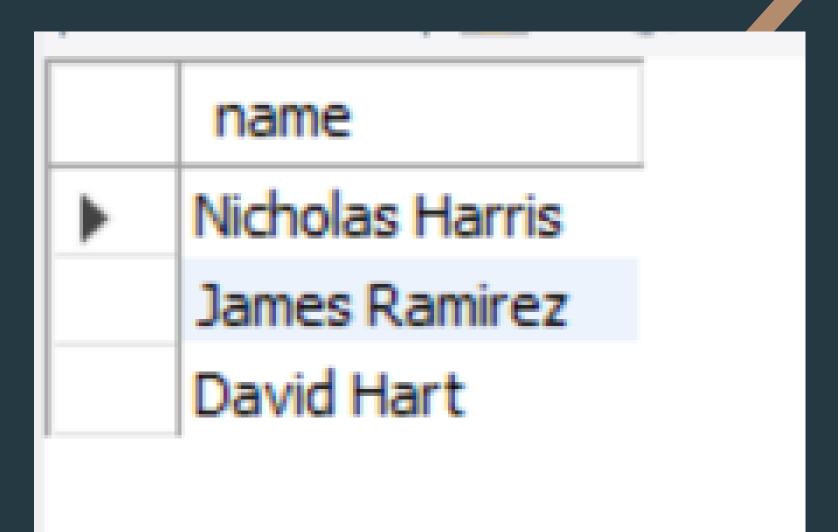
	title	published_year
•	Persevering reciprocal knowledge user	1971
	Customizable 24hour product	2020
	Adaptive 5thgeneration encoding	1956
	Advanced encompassing implementation	1985
	Persistent local encoding	2019
	Optimized interactive challenge	1987
	Ergonomic national hub	2015
	Secured zero tolerance time-frame	1998
	Polarized optimal array	1989
	User-friendly motivating strategy	1997
		1000





```
# 3) List all customers from the Canada ?

SELECT
   name
FROM
   customers
WHERE
   country = 'CANADA';
```



```
# 4) Show orders placed in November 2023 ?

SELECT
    Order_id, Customer_id, Book_id, order_date
FROM
    orders
WHERE
    Order_Date
```

	Order_id	Customer_id	Book_id	order_date
•	1	84	169	2023-05-26
	2	137	301	2023-01-23
	3	216	261	2024-05-27
	4	433	343	2023-11-25
	5	14	431	2023-07-26
	6	439	119	2024-10-11
	7	195	467	2023-10-23
	8	32	159	2024-05-07
	9	109	407	2024-01-04
	10	94	122	2024-07-09
		454	200	2022 40 46

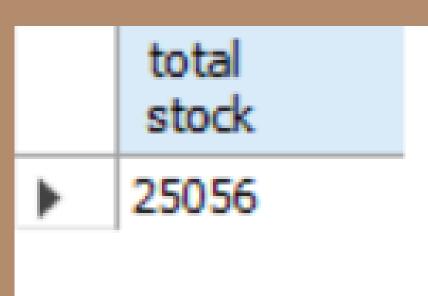
```
#5) Retrieve the total stock of books available?

SELECT

SUM(Stock) AS 'total stock'

FROM

books;
```



```
# 6) Find the details of the most expensive book?

SELECT

*
FROM

books
ORDER BY price DESC
LIMIT 1;
```

	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
•	340	Proactive system-worthy orchestration	Robert Scott	Mystery	1907	49.98	88

```
#7) Show all customers who ordered more than 1 quantity of a boo
SELECT
    *
FROM
    orders
WHERE
    quantity > 1;
```

Re	sult Grid	H 🙌 Filter Ro	WS:		Export:	Wrap Cell Content:	<u>‡A</u>
	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	
	40 61 ×	***	^	2024 05 47	^	24.5	

```
#8) Retrieve all orders where the total amount exceeds $20?

SELECT
    *

FROM
    orders
WHERE
    Total_amount > '$20';
```

	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
ord	ers 62 ×	***	200	2022 10 10	1	20.04



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

SELECT DISTINCT

genre
FROM

books;
```

	genre
•	Biography
	Fantasy
	Non-Fiction
	Fiction
	Romance
	Science Fiction
	Mystery



```
#10) Find the book with the lowest stock?

SELECT

*
FROM

books

ORDER BY stock

LIMIT 1;
```

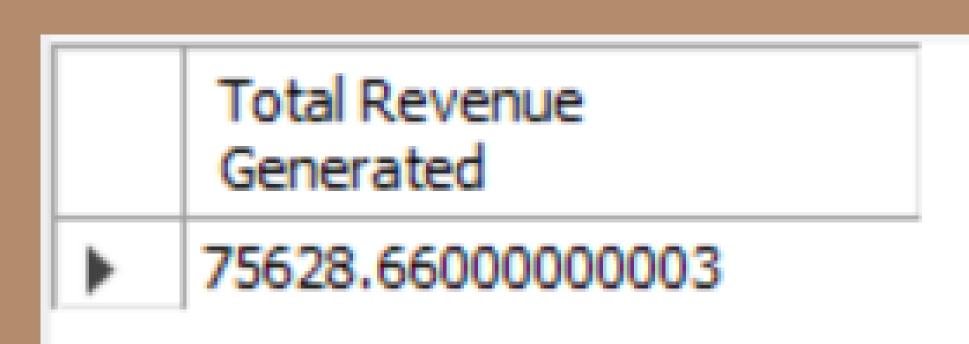
	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
•	44	Networked systemic implementation	Ryan Frank	Science Fiction	1965	13.55	0



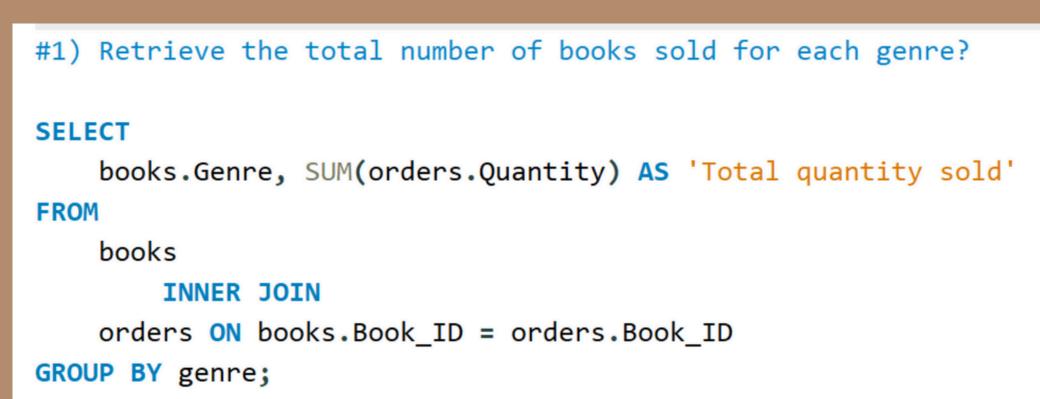


```
#11) Calculate the total revenue generated from all orders?

SELECT
    SUM(total_amount) AS 'Total Revenue Generated'
FROM
    orders;
```







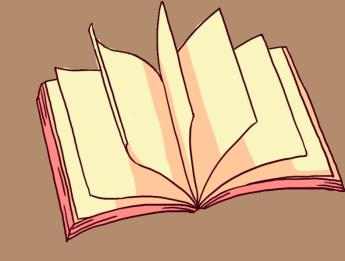
Genre Total quantity sold Biography 285 Non-Fiction 351 Factories 446
Non-Fiction 351
England 446
Fantasy 446
Romance 439
Science Fiction 447
Mystery 504
Fiction 225



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

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

	customer id	namo	ODDED COUNT
	customer_iu	name	ORDER_COUNT
•	2	Crystal Clements	2
	6	Stephen Vasquez	2
	8	Matthew Johnson	2
	13	Kristine Kim	2
	14	John Wood	2
	15	Vanessa Gaines	2
	16	Stacey Flores	3
	21	Edgar Frost	2
	22	Stacey Adams	3
	23	Hannah Drake	2
		et in term to	•



```
#4) Find the most frequently ordered book?

SELECT o.Book_id, b.title, COUNT(o.order_id) AS ORDER_COUNT FROM orders 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;
```

▶ 31 Implemented encompassing conglomeration 4		Book_id	title	ORDER_COUNT
	•	31	Implemented encompassing conglomeration	4

#5) 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	49.90	41
	462	Innovative 3rdgeneration database	Allison Contreras	Fantasy	1988	49.23	62
1	238	Optimized even-keeled analyzer	Sherri Griffith	Fantasy	1975	48.97	72

```
#6) Retrieve the total quantity of books sold by each author ?

SELECT
   books.Author, SUM(orders.Quantity) AS 'total sold books'

FROM
   books
    JOIN
   orders ON books.Book_ID = orders.Book_ID

GROUP BY Author;
```

	Author	total sold books
•	Joseph Crane	3
	Derrick Howard	5
	Juan Miller	8
	Jacqueline Young	5
	Troy Cox	3
	Samantha Ruiz	1
	Denise Barnes	5
	Jadyn Miller	9
	Christopher Price	1
	Renjamin Peters	Q
₹es	ult 70 ×	

	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
Res	ult 71 ×	100.00

```
# 8) 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	name	Total_Spent
•	457	Kim Turner	1398.899999999999

THANK YOU