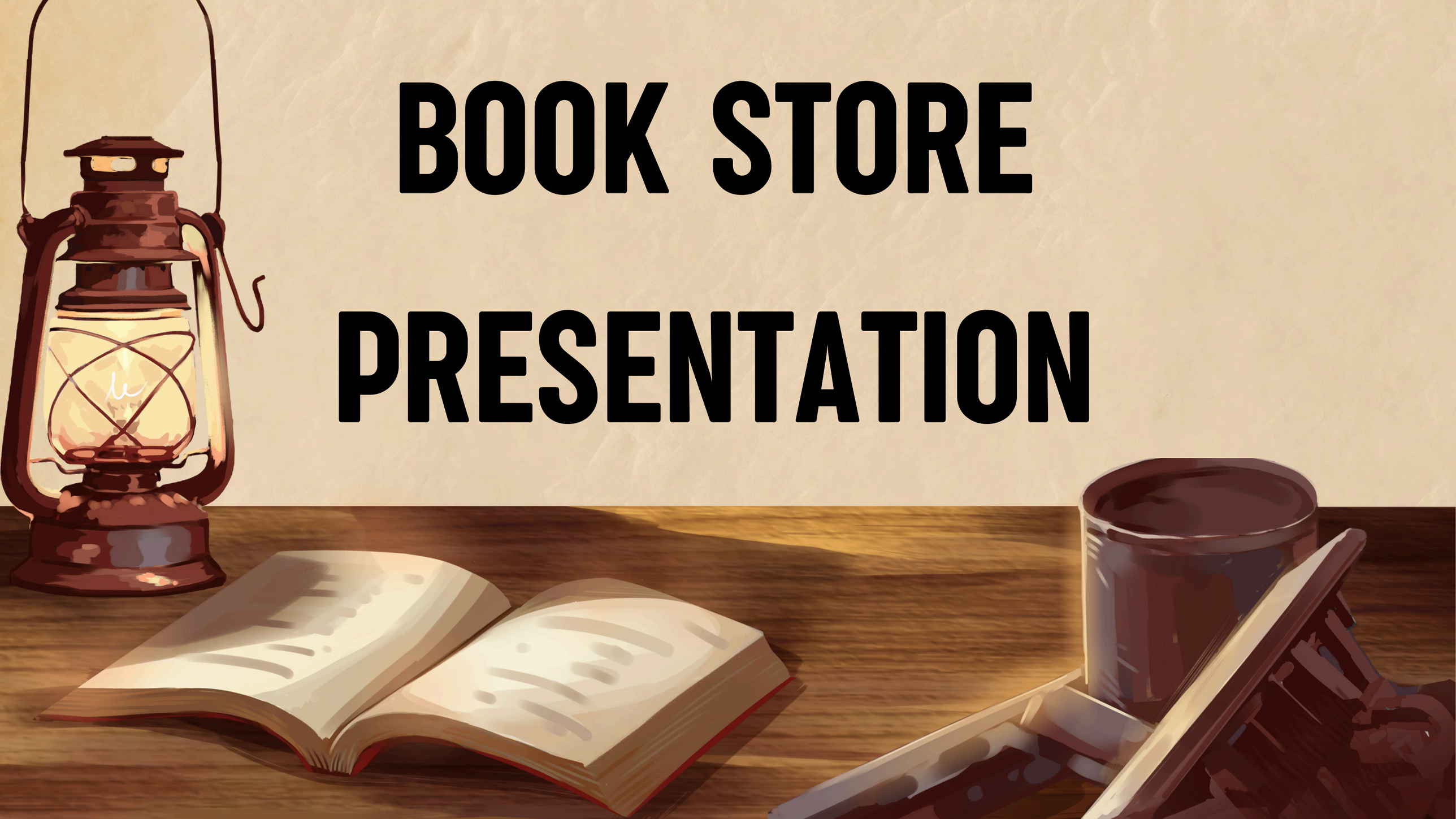
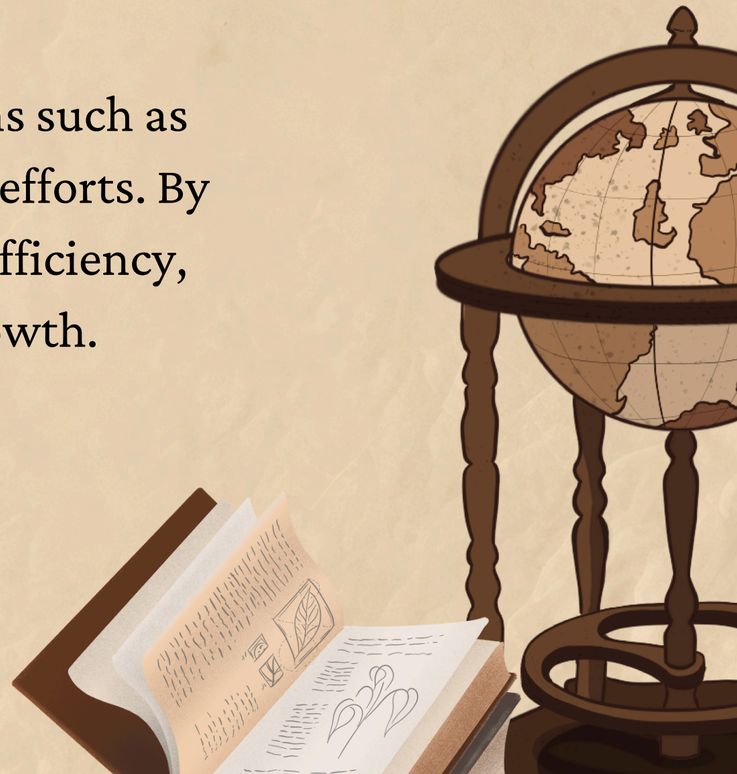
BOOK STORE PRESENTATION



ABOUT THE BOOK STORE

This SQL project focuses on analyzing transactional and inventory data from an online book store to generate actionable insights into sales performance, customer behavior, and inventory management. Using structured queries, key metrics were extracted from the database, which includes tables for books, authors, customers, orders, order items, and categories

Overall, the analysis provides a foundation for strategic decisions such as targeted marketing, inventory planning, and customer retention efforts. By leveraging data, the online bookstore can enhance operational efficiency, improve the shopping experience, and drive sustainable growth.



QUESTIONS

BASIC

1. Retrieve all the books from fiction genre.
2. Find books published after the year 2000.
3. List all customers from the Canada.
4. Show orders placed in november 2023.
5. Retrieve the total stock of books available.
6. Find the details of the most expensive book.
7. Show all customers who ordered more than one book.
8. Retrieve all orders where total ampount exceeds $350.
9. List all genre avilable in the book table.
10. Find the book wuith the lowest stock.
11. Calculate the total revenue generated from all orders.

QUESTIONS

INTERMEDIATE

1. Retrieve the total numbers of books sold for each genre.
2. Find the average price of book in fiction genere.
3. List customers who have at least 2 orders.
4. Find the most frequently ordered book.
5. Select the top 3 most expensive book of fantasy genre.
6. Retrieve the total quantity of books sold by each author.
7. List the cities where customer who spent over $350 are located.
8. Find the customers who spend most on the orders.

```sql
--      Retrieve all the books from fiction genre
SELECT
    *
FROM
    book
WHERE
    Genre = 'Fiction';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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

```sql
--      Find books published after the year 2000
SELECT
    *
FROM
    book
WHERE
    Published_Year > 2000;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Book_ID	Title	Author	Genre	Published_Year	Price	Stock
4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52	8
8	Persistent local encoding	Troy Cox	Science Fiction	2019	48.99	84
10	Ergonomic national hub	Samantha Ruiz	Mystery	2015	24.63	25
18	Adaptive 4thgeneration concept	Hector Palmer	Non-Fiction	2021	39.47	32

```sql
-- List all customers from Canada
SELECT
    *
FROM
    customer
WHERE
    Country = 'Canada';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

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
NULL	NULL	NULL	NULL	NULL	NULL

```sql
-- Show orders placed in november 2023
SELECT
    *
FROM
    orders
WHERE
    Order_Date BETWEEN '2023-11-01' AND '2023-11-30';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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
245	386	97	2023-11-01	9	411.66

```sql
-- Retrieve the total stock of books available
SELECT
    SUM(Stock) AS total_stock
FROM
    book;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

total_stock
25056

```sql
-- Find the details of the most expensive book
SELECT
    *
FROM
    book
ORDER BY price DESC
LIMIT 1;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows:

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

```sql
-- Show all customers who ordered more than one book
SELECT
    *
FROM
    orders
WHERE
    Quantity > 1;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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	216.60
3	216	261	2024-05-27	6	85.50
4	433	343	2023-11-25	7	301.21
5	14	431	2023-07-26	7	136.36

```sql
-- Retrieve all orders where total ampount exceeds $350
SELECT
    *
FROM
    orders
WHERE
    Total Amount > 350;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Order_ID	Customer_ID	Book_ID	Order_Date	Quantity	Total_Amount
9	109	407	2024-01-04	9	379.71
36	417	260	2024-01-21	9	446.31
39	488	422	2024-08-03	8	367.28
41	418	147	2024-05-05	8	361.60

```sql
-- List all genre avilable in the book table
SELECT DISTINCT
    genre
FROM
    book;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

genre
Biography
Fantasy
Non-Fiction
Fiction
Romance
Science Fiction
Mystery

```sql
-- Find the book with the lowest stock
SELECT
    *
FROM
    book
ORDER BY stock
LIMIT 1;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

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

```sql
-- Retrieve the total numbers of books sold for each genre
SELECT
    book.Genre, SUM(quantity) AS total_qty
FROM
    orders
        JOIN
    book ON orders.Book_ID = book.Book_ID
GROUP BY book.genre;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Genre	total_qty
Biography	285
Fantasy	446
Science Fiction	447
Mystery	504
Romance	439
Non-Fiction	351
Fiction	225

```sql
-- Find the average price of book in fiction genere
SELECT
    AVG(price) AS avg_price
FROM
    book
WHERE
    genre = 'Fiction';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

avg_price
28.381333

```sql
-- Select the top 3 most expensive book of fantasy genre
SELECT
    *
FROM
    book
WHERE
    genre = 'Fantasy'
ORDER BY price DESC
LIMIT 3;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows:

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
238	Optimized even-keeled analyzer	Sherri Griffith	Fantasy	1975	48.97	72

```sql
-- Retrieve the total quantity of books sold by each author
SELECT
    author, SUM(quantity) AS total_books_sold
FROM
    orders
        JOIN
    book ON orders.Book_ID = book.Book_ID
GROUP BY Author;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

author	total_books_sold
Margaret Moore	8
John Davidson	13
Christopher Fuentes	6
Marissa Smith	16
Christopher Dixon	15
Tonya Saunders	21

```sql
-- List the cities where customer who spent over $350 are located
SELECT
    *
FROM
    orders
        JOIN
    customer ON customer.Customer_ID = orders.Customer_ID
WHERE
    Total_Amount > 350;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Order_ID	Customer_ID	Book_ID	Order_Date	Quantity	Total_Amount	Customer_ID	Name	Email	Phone	City	Country
9	109	407	2024-01-04	9	379.71	109	Jacob Kelley	qbarber@shelton.org	1234567999	Ravenberg	Macao
36	417	260	2024-01-21	9	446.31	417	Melissa Frey	floresricardo@smith.org	1234568307	Erikaberg	Bahamas
39	488	422	2024-08-03	8	367.28	488	Gerald Miranda	gregsmith@hotmail.com	1234568378	North Brian	Heard Island and McDonald Islands
41	418	147	2024-05-05	8	361.60	418	Kiara Blankenship MD	grahamvictor@sutton.com	1234568308	Brandimouth	Belarus
60	404	49	2023-04-26	9	445.50	404	Lisa Duran	christina28@espinoza.com	1234568294	Lake Tyler	Korea

```sql
-- Find the customers who spend most on the orders
SELECT
    customer.customer_id, name, SUM(total_amount) AS total_spent
FROM
    orders
        JOIN
    customer ON customer.Customer_ID = orders.Customer_ID
GROUP BY customer.customer_id , customer.name
ORDER BY total_spent DESC
LIMIT 10;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

customer_id	name	total_spent
457	Kim Turner	1398.90
174	Jonathon Strickland	1080.95
364	Carrie Perez	1052.27
405	Julie Smith	991.00
386	Pamela Gordon	986.30
425	Ashley Perez	942.62
474	Anthony Young	929.19
163	Robert Clark	746.65
167	Justin Spencer	719.93
214	Alexander Scott	682.15

```sql
-- List customers who have at least 2 orders
SELECT
    customer_id, COUNT(order_id) AS total_orders
FROM
    orders
GROUP BY Customer_ID
HAVING COUNT(Order_ID) >= 2;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

customer_id	total_orders
84	2
137	2
216	2
14	2
195	3
109	2

```sql
-- Find the most frequently ordered book
SELECT
    book_id, COUNT(order_id) AS total_order
FROM
    orders
GROUP BY Book_ID
ORDER BY total_order DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

book_id	total_order
88	4
491	4
333	4
31	4


Thank You