# BOOKS SALES QUERIES(P1)

## ❖ BASIC QUERIES :

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

SELECT title,Author,genre FROM Books

where Genre='Fiction';

| | title character varying (100) | author character varying (100) | genre character varying (50) |
|---|---|---|---|
| 1 | Customizable 24hour product | Christopher Andrews | Fiction |
| 2 | Multi-layered optimizing migration | Wesley Escobar | Fiction |
| 3 | Expanded analyzing portal | Lisa Coffey | Fiction |
| 4 | Quality-focused multi-tasking challenge | Katrina Underwood | Fiction |
| 5 | Implemented encompassing conglomerati... | Melissa Taylor | Fiction |
| 6 | Optimized national process improvement | Megan Goodwin | Fiction |
| 7 | Adaptive didactic interface | Natalie Gonzalez | Fiction |
| 8 | Reverse-engineered directional conglomer... | John Christian | Fiction |
| 9 | Re-contextualized real-time strategy | Nicole Lynch | Fiction |

### 2). Find books published after the year 1950 ?

SELECT title,author,published_year FROM Books

where published_year>1950;

| | title character varying (100) | author character varying (100) | published_year integer |
|---|---|---|---|
| 1 | Persevering reciprocal knowledge user | Mario Moore | 1971 |
| 2 | Customizable 24hour product | Christopher Andrews | 2020 |
| 3 | Adaptive 5thgeneration encoding | Juan Miller | 1956 |
| 4 | Advanced encompassing implementation | Bryan Morgan | 1985 |
| 5 | Persistent local encoding | Troy Cox | 2019 |
| 6 | Optimized interactive challenge | Colin Buckley | 1987 |
| 7 | Ergonomic national hub | Samantha Ruiz | 2015 |
| 8 | Secured zero tolerance time-frame | Denise Barnes | 1998 |
| 9 | Polarized optimal array | Destiny Scott | 1989 |

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

SELECT name,city,country FROM Customers

where country='Canada';

| | name character varying (100) | city character varying (50) | country character varying (150) |
|---|---|---|---|
| 1 | Nicholas Harris | Davistown | Canada |
| 2 | James Ramirez | Maxwelltown | Canada |
| 3 | David Hart | Thompsonfurt | Canada |

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

SELECT * FROM Orders

where order_date between '2023-11-01' AND '2023-11-30';

| | order_id [PK] integer | customer_id integer | book_id integer | order_date date | quantity integer | total_amount numeric (10,2) |
|---|---|---|---|---|---|---|
| 1 | 4 | 433 | 343 | 2023-11-25 | 7 | 301.21 |
| 2 | 19 | 496 | 60 | 2023-11-17 | 9 | 316.26 |
| 3 | 75 | 291 | 375 | 2023-11-30 | 5 | 170.75 |
| 4 | 132 | 469 | 333 | 2023-11-22 | 7 | 194.32 |
| 5 | 137 | 474 | 471 | 2023-11-25 | 8 | 363.04 |
| 6 | 163 | 207 | 384 | 2023-11-23 | 3 | 101.76 |
| 7 | 182 | 129 | 293 | 2023-11-01 | 7 | 125.51 |
| 8 | 200 | 313 | 303 | 2023-11-23 | 1 | 6.57 |
| 9 | 213 | 325 | 447 | 2023-11-17 | 7 | 253.75 |

Total rows: 25 Query complete 00:00:00.135

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

SELECT sum(stock)

from Books;

| | sum bigint |
|---|---|
| 1 | 25056 |

Total rows: 1 Query co

1

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

SELECT title,author,price FROM Books

order by price desc

limit 5;

| | title character varying (100) | author character varying (100) | price numeric (10,2) |
|---|---|---|---|
| 1 | Proactive system-worthy orchestration | Robert Scott | 49.98 |
| 2 | Optimized content-based standardiza... | Timothy Adams | 49.96 |
| 3 | Stand-alone content-based hub | Lisa Ellis | 49.90 |
| 4 | Synchronized client-server service-desk | James Alvarado | 49.89 |
| 5 | Switchable modular moratorium | Tonya Saunders | 49.88 |

## 7). Show all customers who ordered more than 1 quantity of a book ?

SELECT * FROM Orders

where quantity>1;

| | order_id [PK] integer | customer_id integer | book_id integer | order_date date | quantity integer | total_amount numeric (10,2) |
|---|---|---|---|---|---|---|
| 1 | 1 | 84 | 169 | 2023-05-26 | 8 | 188.56 |
| 2 | 2 | 137 | 301 | 2023-01-23 | 10 | 216.60 |
| 3 | 3 | 216 | 261 | 2024-05-27 | 6 | 85.50 |
| 4 | 4 | 433 | 343 | 2023-11-25 | 7 | 301.21 |
| 5 | 5 | 14 | 431 | 2023-07-26 | 7 | 136.36 |
| 6 | 6 | 439 | 119 | 2024-10-11 | 5 | 249.40 |
| 7 | 7 | 195 | 467 | 2023-10-23 | 6 | 82.92 |
| 8 | 8 | 32 | 159 | 2024-05-07 | 4 | 144.84 |

Total rows: 438 Query complete 00:00:00.164

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

SELECT * FROM Orders

where total_amount>20;

| | order_id [PK] integer | customer_id integer | book_id integer | order_date date | quantity integer | total_amount numeric (10,2) |
|---|---|---|---|---|---|---|
| 1 | 1 | 84 | 169 | 2023-05-26 | 8 | 188.56 |
| 2 | 2 | 137 | 301 | 2023-01-23 | 10 | 216.60 |
| 3 | 3 | 216 | 261 | 2024-05-27 | 6 | 85.50 |
| 4 | 4 | 433 | 343 | 2023-11-25 | 7 | 301.21 |
| 5 | 5 | 14 | 431 | 2023-07-26 | 7 | 136.36 |
| 6 | 6 | 439 | 119 | 2024-10-11 | 5 | 249.40 |
| 7 | 7 | 195 | 467 | 2023-10-23 | 6 | 82.92 |
| 8 | 8 | 32 | 159 | 2024-05-07 | 4 | 144.84 |

Total rows: 473 Query complete 00:00:00.110

## 9). 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 |

Total rows: 7 Query comple

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

SELECT title,author,price,stock FROM Books

order by stock asc

limit 5;

| | title character varying (100) | author character varying (100) | price numeric (10,2) | stock integer |
|---|---|---|---|---|
| 1 | Object-based eco-centric challenge | Douglas Mccarthy | 19.11 | 0 |
| 2 | Business-focused real-time benchmark | David Nelson | 11.66 | 0 |
| 3 | Robust eco-centric capacity | Brian Haney | 35.14 | 0 |
| 4 | Networked systemic implementation | Ryan Frank | 13.55 | 0 |
| 5 | Future-proofed heuristic function | Samantha Mcclain | 6.01 | 0 |

Total rows: 5 Query complete 00:00:00.104

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

SELECT sum(total_amount) as total_Revenue

FROM Orders;

| | total_revenue numeric |
|---|---|
| 1 | 75628.66 |

SELECT * FROM Books;

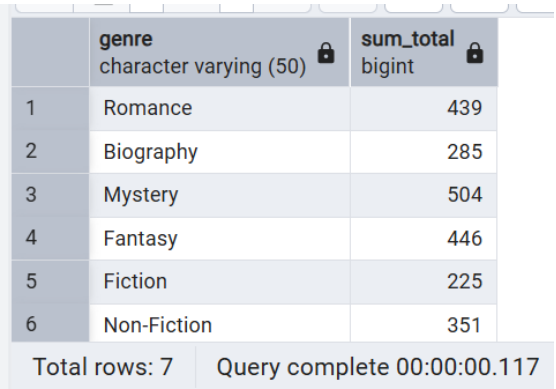
SELECT * FROM Customers;

SELECT * FROM Orders;

## ➢ Advance Questions :

### 1). Retrieve the total number of books sold for each genre ?

```
select b.genre,sum(o.quantity) as Sum_Total
from Orders O
join
Books B on b.book_id=o.book_id
group by b.genre;
```

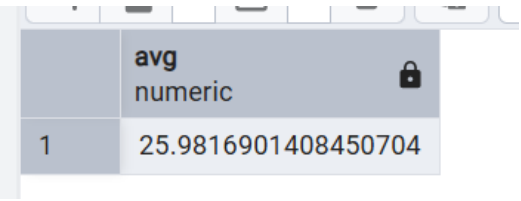


| | genre character varying (50) | sum_total bigint |
|---|---|---|
| 1 | Romance | 439 |
| 2 | Biography | 285 |
| 3 | Mystery | 504 |
| 4 | Fantasy | 446 |
| 5 | Fiction | 225 |
| 6 | Non-Fiction | 351 |

Total rows: 7 Query complete 00:00:00.117

### 2). Find the average price of books in the "Fantasy" genre ?

```
select avg(price)
from books
where genre='Fantasy';
```



| | avg numeric |
|---|---|
| 1 | 25.9816901408450704 |

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

```
select c.name,count(o.customer_id) as least_orders
from customers c
```

```
join orders o on c.customer_id=o.customer_id
group by c.name
having count(o.customer_id)>=2;
```

| | name<br>character varying (100) | least_orders<br>bigint |
|---|---|---|
| 1 | Mr. David Cox | 3 |
| 2 | Joshua Bass | 2 |
| 3 | James Ramirez | 3 |
| 4 | Scott Oconnell | 2 |
| 5 | Jason Bell | 2 |
| 6 | Kelli Bishop | 2 |

Total rows: 139 Query complete 00:00:00.177

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

```
select o.book_id,b.title,count(o.order_id) as most_ordered_book
from books b
join orders o on b.book_id=o.book_id
group by  o.book_id,b.title
order by most_ordered_book desc
limit 1;
```

| | book_id<br>integer | title<br>character varying (100) | most_ordered_book<br>bigint |
|---|---|---|---|
| 1 | 88 | Robust tangible hardware | 4 |

## 5). Show the top 3 most expensive books of 'Fantasy' Genre ?

```
select title,genre,price
from books
where genre='Fantasy'
order by price desc
limit 3;
```

| | title<br>character varying (100) | genre<br>character varying (50) | price<br>numeric (10,2) |
|---|---|---|---|
| 1 | Stand-alone content-based hub | Fantasy | 49.90 |
| 2 | Innovative 3rdgeneration database | Fantasy | 49.23 |
| 3 | Optimized even-keeled analyzer | Fantasy | 48.97 |

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

```
select b.author,sum(o.quantity) as total_books_soled
from books b join orders o on b.book_id=o.book_id
 group by b.author
order by total_books_soled desc
 limit 5;
```

| | author<br>character varying (100) | total_books_soled<br>bigint |
|---|---|---|
| 1 | Patrick Contreras | 28 |
| 2 | Melissa Taylor | 27 |
| 3 | Emily James | 24 |
| 4 | Thomas Trujillo | 24 |
| 5 | Valerie Moore | 23 |

## 7). List the cities where customers who spent over $30 are located ?

```
select distinct c.city,o.total_amount
from customers c
join orders o on c.customer_id=o.customer_id
where o.total_amount>30;
```

| | city<br>character varying (50) | total_amount<br>numeric (10,2) |
|---|---|---|
| 1 | Taylorfurt | 189.45 |
| 2 | Leeport | 141.39 |
| 3 | Port Jasonview | 149.12 |
| 4 | Port Aaronstad | 145.44 |
| 5 | Matthewfurt | 328.50 |
| 6 | Angelaside | 42.19 |

Total rows: 443 Query complete 00:00:00.093

## 8). Find the customer who spent the most on orders ?

```
select c.name,sum(o.total_amount) as sum_of_spend
from customers c
join orders o on c.customer_id=o.customer_id
group by c.name
order by sum_of_spend desc
limit 5;
```

| | name<br>character varying (100) | sum_of_spend<br>numeric |
|---|---|---|
| 1 | Kim Turner | 1398.90 |
| 2 | Jonathon Strickland | 1080.95 |
| 3 | Carrie Perez | 1052.27 |
| 4 | Julie Smith | 991.00 |
| 5 | Pamela Gordon | 986.30 |

Total rows: 5 Query complete 00:00:00.112

## 9). Calculate the stock remaining after fulfilling all orders?

```
select b.book_id,b.title,b.stock,coalesce(sum(quantity),0) as total_books_soled,
        b.stock-coalesce(sum(quantity),0)
from books b
left join orders o on b.book_id=o.book_id
```

group by b.book_id;

| | book_id [PK] integer | title character varying (100) | stock integer | total_books_soled bigint | ramaining_stock bigint |
|---|---|---|---|---|---|
| 1 | 87 | Decentralized actuating analyzer | 98 | 0 | 98 |
| 2 | 184 | Enterprise-wide solution-oriented challenge | 22 | 9 | 13 |
| 3 | 477 | Distributed cohesive approach | 17 | 13 | 4 |
| 4 | 273 | Devolved zero administration process improvement | 23 | 24 | -1 |
| 5 | 394 | Integrated well-modulated Graphic Interface | 59 | 1 | 58 |

Total rows: 500 Query complete 00:00:00.132

## ❖ KEY INSIGHTS :

- 75,628 Rupees Is The Total Revenue Generated From All Books.
- 25056 Rupees Is The Total Stock Available For The Books.
- 49.98 Rupees Is The Most Expensive Book.
- 7 Types Books : Romance, Biography, Mystry, Fanstasy, Fiction, Non_Fiction, Science Fiction.
- Romance Is The Top Sold Book of 439.
- There Are 139 Customer Who Placed 2 Orders & Than 2 Orderes.
- Most Frequently Ordered Book is Robert tangible hardware.
- Top Author Which Books Sold 28 Is Patrick Contreras.
- Kim Turnor, Jonathon Strickland, Carrie Perez Are The Top 3 Customer Who Spending More 1000 Rupees On Orders.
- Decentralized Actuating analyzer Titles Book Not Performing Any More.