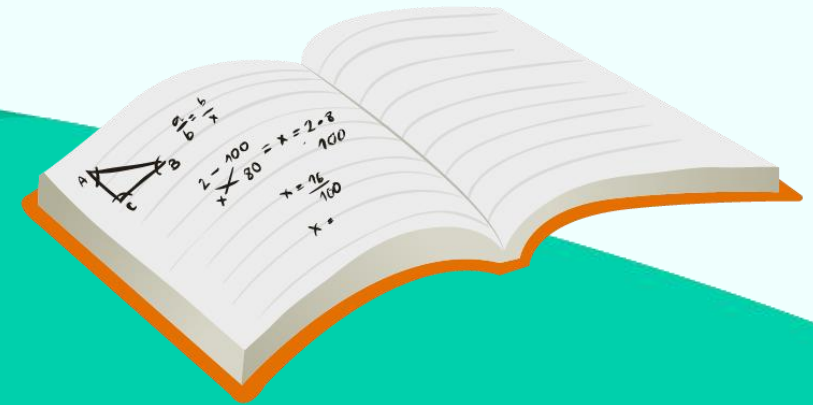


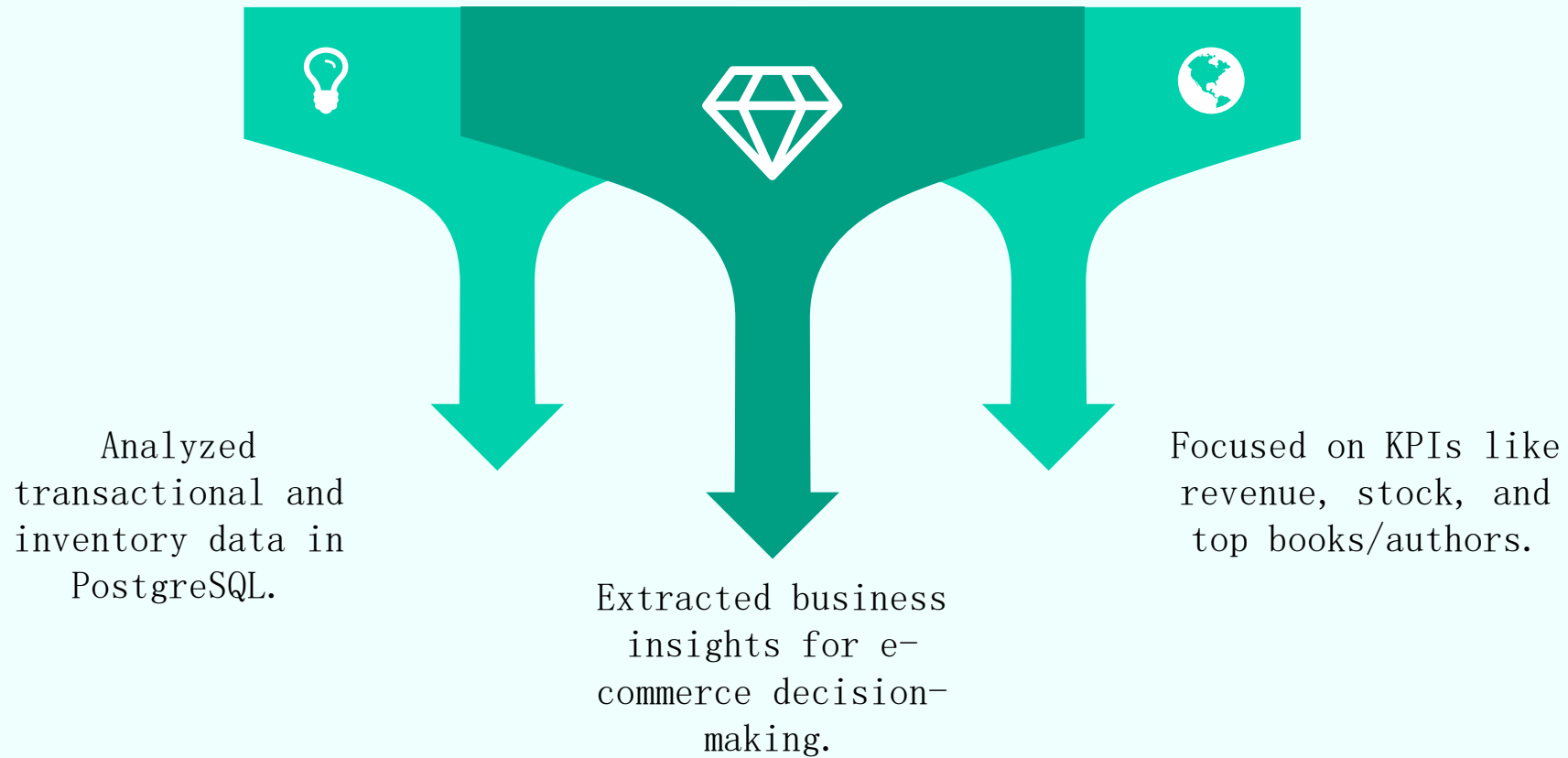
Online Bookstore SQL Data Analysis

The user can demonstrate on a projector or computer, or print the presentation and make it film The user can demonstrate on a projector or computer, or print the presentation and make it film





Project Overview



Datasets Used

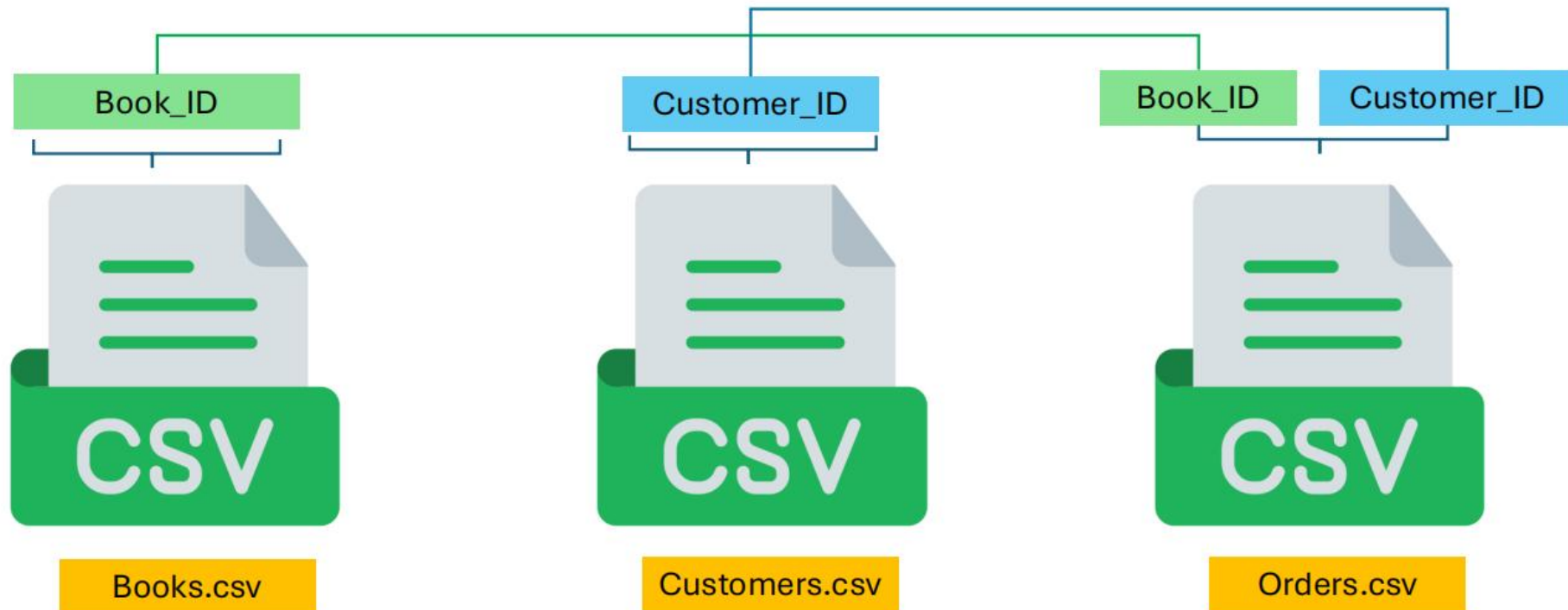
1. `books.csv` - title, author, genre, price, stock
2. `customers.csv` - name, city, country
3. `orders.csv` - book ID, customer ID, quantity, total amount, order date




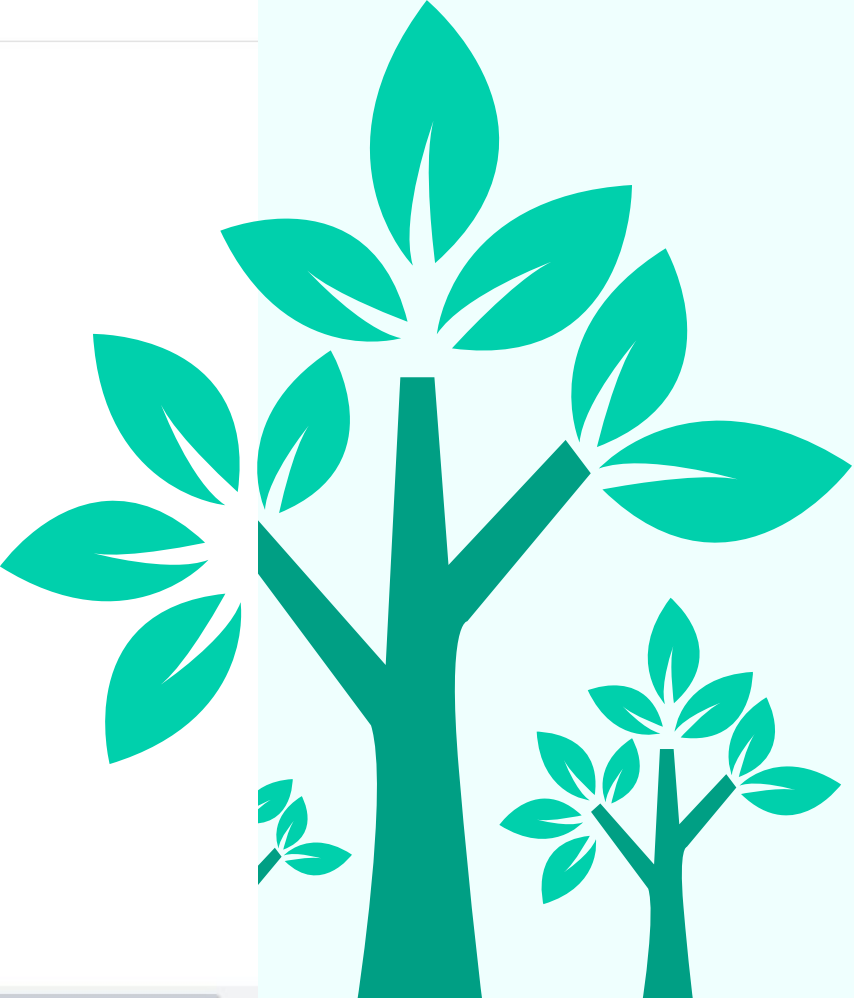
Datasets Used

3 CSV Files

Tables must have at least one common column with same column name and same data type



Sample Table



```
library Analysis Project.sql* X
library/postgres@PostgreSQL 17

Query Query History

1 CREATE TABLE Books (
2   Book_ID SERIAL PRIMARY KEY,
3   Title VARCHAR(100),
4   Author VARCHAR(100),
5   Genre VARCHAR(50),
6   Published_Year INT,
7   Price NUMERIC(10, 2),
8   Stock INT);
9
10 CREATE TABLE Customers (
11   Customer_ID SERIAL PRIMARY KEY,
12   Name VARCHAR(100),
13   Email VARCHAR(100),
14   Phone VARCHAR(15),
15   City VARCHAR(50),
16   Country VARCHAR(150));
17
18 CREATE TABLE Orders (
19   Order_ID SERIAL PRIMARY KEY,
20   Customer_ID INT REFERENCES Customers(Customer_ID),
21   Book_ID INT REFERENCES Books(Book_ID),
22   Order_Date DATE,
23   Quantity INT,
24   Total_Amount NUMERIC(10, 2));
```

Objectives



- Analyze book sales performance



- Understand customer behavior



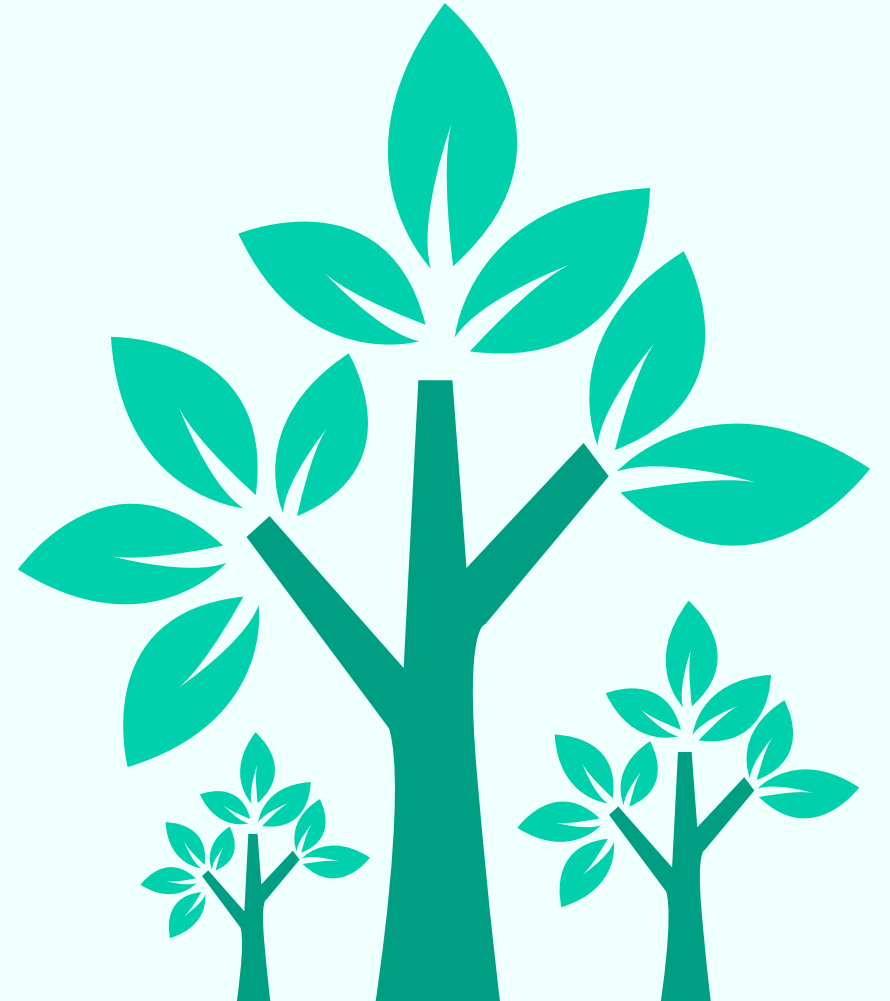
- Monitor inventory levels



- Calculate total revenue



- Identify top authors and regions

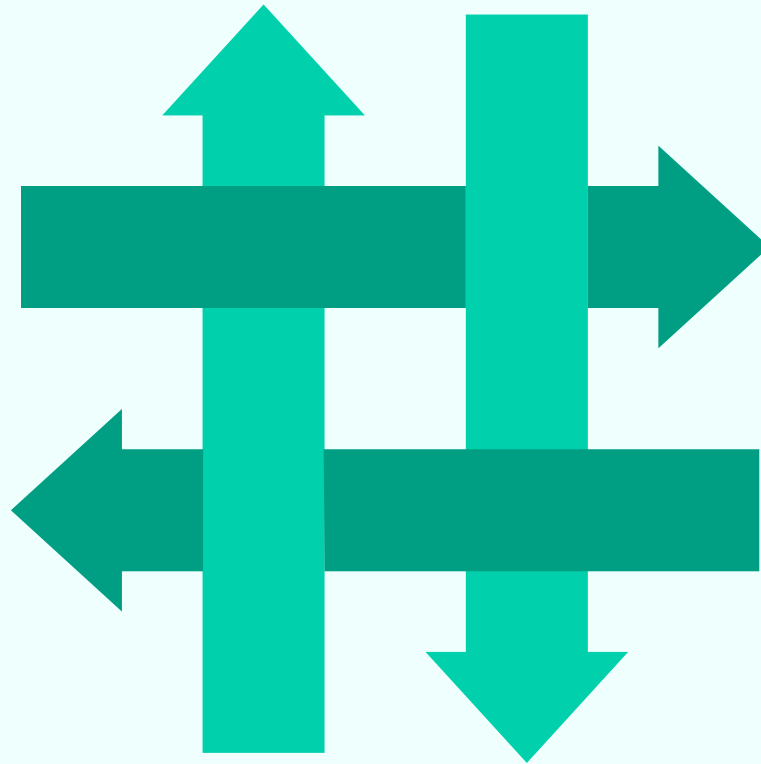




Business Problems

- Best performing genres/books

- Most loyal and profitable customers



- Top cities/regions by value

- Total revenue

- Stock after orders



Methodology

Import and clean CSV
data

Basic SQL exploration

Advanced SQL with
JOINS & aggregations

KPI modeling



Generate insights



Key Insights



- Fiction: highest-selling genre



- High-spending customers identified



- Total revenue calculated



- Remaining stock determined



- Top authors/books listed



Skills Gained



- Real-world SQL queries



- Managing relational tables



- Translating KPIs to database logic



- Business-focused data analysis mindset

Basic Queries

- 1) Retrieve all books in the "Fiction" genre
- 2) Find books published after the year 1950
- 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 1 quantity of a book
- 8) Retrieve all orders where the total amount exceeds \$20
- 9) List all genres available in the Books table
- 10) Find the book with the lowest stock
- 11) Calculate the total revenue generated from all orders

Advance Queries

- 1) Retrieve the total number of books sold for each genre
- 2) Find the average price of books in the "Fantasy" genre
- 3) List customers who have placed at least 2 orders
- 4) Find the most frequently ordered book
- 5) Show the top 3 most expensive books of 'Fantasy' Genre
- 6) Retrieve the total quantity of books sold by each author
- 7) List the cities where customers who spent over \$30 are located
- 8) Find the customer who spent the most on orders
- 9) Calculate the stock remaining after fulfilling all orders



Conclusion



First complete SQL project - from CSVs to KPIs.



Improved SQL skills and business analysis thinking.



Strong portfolio addition for GitHub and LinkedIn.

Thank You!

Every great presentation is complete with a great audience
— and that's you!

