📄Project Summary: Online Bookstore (PostgreSQL)

🕐Objective

To design and analyze a relational database for an online bookstore using PostgreSQL, enabling insight generation from customer behavior, book sales, and inventory management.

🧰Tools Used

- **PostgreSQL** – Relational database
- **pgAdmin** – SQL execution and UI management
- **Markdown + PDF** – For documentation and reporting

🗂️Data Overview

Tables:

- `Books` – Book details (title, author, price, genre, stock)
- `Customers` – Customer contact/location info
- `Orders` – Order date, quantity, total amount

Rows:

- Books: 15
- Customers: 12
- Orders: 30

📊Key Business Insights

- 💰**Total Revenue:** ₹5,420
- 🕗**Top Book Ordered:** Atomic Habits
- 💼**Highest Spending Customer:** John Smith (₹1,420)
- 📚**Best Selling Genre:** Fiction
- 💴**Top City by Spend:** Toronto
- 📦**Stock Alert:** “The Alchemist” is low on stock
- 🔦**Repeat Customers:** 4 users placed 2+ orders
- 📉**Fantasy Avg Price:** ₹524

- 🕐**Top Country:** Canada (by customer count)
- **Top Author:** J.K. Rowling (by units sold)

📐Schema Design Highlights

- Used **foreign keys** for referential integrity
- Indexed primary keys for efficient joins
- Separated concerns via normalized design (3NF)

📄How to Use

1. Import CSVs from `data/`
2. Run SQL in `sql/online_bookstore.sql`
3. Explore `insights/insights.md` for analytics queries

🔗Deliverables

- SQL Script (.sql)
- Cleaned CSVs (.csv)
- Insights Report (.md)
- GitHub README (.md)
- This Summary (.pdf)

💻Created by

Aditya Singh\ Computer Engineering Student\

Thank you for reviewing the project!