



Entity-Relationshiping and Sales platform

# Online Bookstore Database Schema - Tabular Format

## 1. Entity Tables

### BOOK Table

Column Name	Data Type	Constraints	Description
Book_ID	int	PK	Primary Key - Unique identifier for each book
Title	string	NOT NULL	Title of the book
ISBN	string	UNIQUE	International Standard Book Number
Edition	string		Edition information (e.g., 1st, 2nd, etc.)
Publication_Year	int		Year the book was published
Price	decimal		Current selling price of the book
Publisher_ID	int	FK	Foreign Key referencing PUBLISHER table

### AUTHOR Table

Column Name	Data Type	Constraint s	Description
Author_ID	int	PK	Primary Key - Unique identifier for each author
Name	string	NOT NULL	Full name of the author
Biography	text		Biographical information about the author

### PUBLISHER Table

Column Name	Data Type	Constraint s	Description
Publisher_ID	int	PK	Primary Key - Unique identifier for each publisher
Name	string	NOT NULL	Name of the publishing company
Contact_Details	strings		Contact information for the publisher

### GENRE Table

Column Name	Data Type	Constraints	Description
Genre_ID	int	PK	Primary Key - Unique identifier for each genre
Genre_Name	string	NOT NULL, UNIQUE	Name of the genre (e.g., Fiction, Mystery, etc.)

### CUSTOMER Table

Column Name	Data Type	Constraint s	Description
Customer_ID	int	PK	Primary Key - Unique identifier for each customer
Name	string	NOT NULL	Full name of the customer
Purchase_History	text		Historical record of customer purchases

### SHIPPING\_ADDRESS Table

Column Name	Data Type	Constraints	Description
Address_ID	int	PK	Primary Key - Unique identifier for each address
Customer_ID	int	FK	Foreign Key referencing CUSTOMER table
Full_Address	string	NOT NULL	Complete street address
City	string	NOT NULL	City name
State	string	NOT NULL	State or province
Postal_Code	string	NOT NULL	ZIP or postal code
Country	string	NOT NULL	Country name

### WISHLIST Table

Column Name	Data Type	Constraints	Description
Wishlist_ID	int	PK	Primary Key - Unique identifier for each wishlist item
Customer_ID	int	FK	Foreign Key referencing CUSTOMER table
Book_ID	int	FK	Foreign Key referencing BOOK table
Date_Added	date	NOT NULL	Date when item was added to wishlist

### ORDER Table

Column Name	Data Type	Constraints	Description
Order_ID	int	PK	Primary Key - Unique identifier for each order
Order_Number	string	UNIQUE, NOT NULL	Human-readable order number
Order_Date	date	NOT NULL	Date when order was placed
Customer_ID	int	FK	Foreign Key referencing CUSTOMER table
Shipping_Address_ID	int	FK	Foreign Key referencing SHIPPING_ADDRESS table

Shipment_Status	string	NOT NULL	Current status of shipment
Total_Amount	decimal	NOT NULL	Total order amount

### ORDER\_ITEM Table

Column Name	Data Type	Constraints	Description
Order_Item_ID	int	PK	Primary Key - Unique identifier for each order item
Order_ID	int	FK	Foreign Key referencing ORDER table
Book_ID	int	FK	Foreign Key referencing BOOK table
Quantity	int	NOT NULL	Number of books ordered
Item_Discount	decimal	DEFAULT 0	Discount applied to this item
Unit_Price	decimal	NOT NULL	Price per unit at time of order

### PAYMENT Table

Column Name	Data Type	Constraints	Description
Payment_ID	int	PK	Primary Key - Unique identifier for each payment
Order_ID	int	FK	Foreign Key referencing ORDER table
Amount	decimal	NOT NULL	Payment amount
Payment_Date	date	NOT NULL	Date payment was processed
Payment_Method	string	NOT NULL	Method of payment (e.g., Credit Card, PayPal)
Payment_Status	string	NOT NULL	Status of payment (e.g., Completed, Pending)

## 2. Junction Tables (Many-to-Many Relationships)

### BOOK\_AUTHOR Table

Column Name	Data Type	Constraints	Description
-------------	-----------	-------------	-------------

Book_ID	int	FK, PK	Foreign Key referencing BOOK table
Author_ID	int	FK, PK	Foreign Key referencing AUTHOR table

## BOOK\_GENRE Table

Column Name	Data Type	Constraints	Description
-------------	-----------	-------------	-------------