-- Create Authors Table

CREATE TABLE Authors (

author\_id INT PRIMARY KEY,

author\_name VARCHAR(100),

birth\_year INT,

nationality VARCHAR(50)

);

-- Create Books Table

CREATE TABLE Books (

book\_id INT PRIMARY KEY,

title VARCHAR(200),

author\_id INT,

publication\_year INT,

genre VARCHAR(50),

price DECIMAL(10, 2),

FOREIGN KEY (author\_id) REFERENCES Authors(author\_id)

);

-- Create Customers Table

CREATE TABLE Customers (

customer\_id INT PRIMARY KEY,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

email VARCHAR(100),

registration\_date DATE

);

-- Create Orders Table

CREATE TABLE Orders (

order\_id INT PRIMARY KEY,

customer\_id INT,

order\_date DATE,

FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id)

);

-- Create Order\_Items Table

CREATE TABLE Order\_Items (

order\_item\_id INT PRIMARY KEY,

order\_id INT,

book\_id INT,

quantity INT,

FOREIGN KEY (order\_id) REFERENCES Orders(order\_id),

FOREIGN KEY (book\_id) REFERENCES Books(book\_id)

);

INSERT INTO Authors (author\_id, author\_name, birth\_year, nationality)

VALUES

(1, 'F. Scott Fitzgerald', 1896, 'American'),

(2, 'Jane Austen', 1775, 'British'),

(3, 'Harper Lee', 1926, 'American'),

(4, 'George Orwell', 1903, 'British'),

(5, 'J.R.R. Tolkien', 1892, 'British'),

(6, 'J.K. Rowling', 1965, 'British'),

(7, 'J.D. Salinger', 1919, 'American'),

(8, 'Virginia Woolf', 1882, 'British'),

(9, 'Aldous Huxley', 1894, 'British'),

(10, 'Homer', NULL, 'Greek');

INSERT INTO Books(book\_id, title, author\_id, publication\_year, genre, price)

VALUES

(1, 'The Great Gatsby', 1, 1925, 'Fiction', 20),

(2, 'Pride and Prejudice', 2, 1813, 'Fiction', 15),

(3, 'To Kill a Mockingbird', 3, 1960, 'Fiction', 18),

(4, '1984', 4, 1949, 'Fiction', 22),

(5, 'The Hobbit', 5, 1937, 'Fantasy', 25),

(6, 'Harry Potter and the...', 6, 1997, 'Fantasy', 28),

(7, 'The Catcher in the Rye', 7, 1951, 'Fiction', 16),

(8, 'The Lord of the Rings', 5, 1954, 'Fantasy', 30),

(9, 'To the Lighthouse', 8, 1927, 'Fiction', 19),

(10, 'Brave New World', 9, 1932, 'Fiction', 21);

INSERT INTO Customers (customer\_id, first\_name, last\_name, email, registration\_date)

VALUES

(1, 'John', 'Smith', 'john@example.com', '2022-01-15'),

(2, 'Emily', 'Johnson', 'emily@example.com', '2022-03-10'),

(3, 'Michael', 'Williams', 'michael@example.com', '2022-05-20'),

(4, 'Sarah', 'Brown', 'sarah@example.com', '2022-07-12'),

(5, 'David', 'Jones', 'david@example.com', '2022-09-05'),

(6, 'Laura', 'Davis', 'laura@example.com', '2022-11-18'),

(7, 'James', 'Miller', 'james@example.com', '2023-01-22'),

(8, 'Emma', 'Wilson', 'emma@example.com', '2023-03-14'),

(9, 'Olivia', 'Taylor', 'olivia@example.com', '2023-05-29'),

(10, 'Liam', 'Anderson', 'liam@example.com', '2023-07-02');

INSERT INTO Orders (order\_id, customer\_id, order\_date)

VALUES

(1, 1, '2022-02-01'),

(2, 2, '2022-03-15'),

(3, 1, '2022-04-10'),

(4, 3, '2022-05-18'),

(5, 4, '2022-07-25'),

(6, 5, '2022-09-10'),

(7, 6, '2022-11-25'),

(8, 7, '2023-01-30'),

(9, 8, '2023-03-20'),

(10, 9, '2023-06-05');

INSERT INTO Order\_Items (order\_item\_id, order\_id, book\_id, quantity)

VALUES

(1, 1, 2, 1),

(2, 1, 4, 2),

(3, 2, 1, 1),

(4, 3, 3, 1),

(5, 3, 5, 3),

(6, 4, 6, 2),

(7, 5, 7, 1),

(8, 6, 8, 2),

(9, 7, 9, 1),

(10, 8, 10, 1);

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-- Question 1: List the titles of all books published in or after the year 2000.

-- Question 2: Retrieve the names of authors who were born before 1900.

-- Question 3: Calculate the total price for each order.

-- Question 4: Find the top 5 best-selling books (by total quantity sold) along with their titles and authors' names.

-- Question 5: Get the names of customers who have placed at least 2 orders.

-- Question 6: Calculate the average price of books in each genre.

-- Question 7: Find the customer who has spent the most on orders.

-- Question 8: List the titles of books ordered by a customer with the email 'john@example.com'.

-- Question 9: Calculate the total revenue for each year,based on the order dates.