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Problem 3: Bookstore Inventory
Schema:
• Books(book_id INT, title VARCHAR(100), price DECIMAL(8,2), pub_year INT)
• Sales(sale id INT, book id INT, quantity INT, sale date DATE)
Ouestions:
1. Create tables with suitable constraints.
2. Insert 4 books and 5 sales records.
3. Display titles of books sold in the year 2024.

    Show total sales revenue for each book using SUM(price * quantity).

5. Find the title of the most sold book using ORDER BY and LIMIT.
CREATE TABLE Books (
    book_id INT PRIMARY KEY,
    title VARCHAR(100) NOT NULL,
    price DECIMAL(8,2) CHECK (price >= 0),
    pub year INT
);
CREATE TABLE Sales (
    sale_id INT PRIMARY KEY,
    book id INT,
    quantity INT CHECK (quantity > 0),
    sale date DATE,
    FOREIGN KEY (book_id) REFERENCES Books(book_id)
);
-- Insert Books
INSERT INTO Books VALUES
(1, 'The Alchemist', 350.00, 2015),
(2, 'Atomic Habits', 499.00, 2020),
(3, 'Sapiens', 599.00, 2018),
(4, 'Deep Work', 450.00, 2019);
-- Insert Sales
INSERT INTO Sales VALUES
(101, 1, 3, '2024-01-10'),
(102, 2, 5, '2024-02-15'),
(103, 3, 2, '2023-12-20'),
(104, 1, 4, '2024-03-05'),
(105, 4, 6, '2024-04-01');
-- 3. Display Titles of Books Sold in the Year 2024
SELECT DISTINCT b.title
FROM Books b
JOIN Sales s ON b.book id = s.book id
WHERE YEAR(s.sale date) = 2024;
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-- 4. Show Total Sales Revenue for Each Book Using SUM(price * quantity) SELECT b.title, SUM(b.price * s.quantity) AS total_revenue FROM Books b
JOIN Sales s ON b.book_id = s.book_id
GROUP BY b.book_id, b.title;
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-- 5. Find the Title of the Most Sold Book Using ORDER BY and LIMIT SELECT b.title, SUM(s.quantity) AS total_quantity FROM Books b
JOIN Sales s ON b.book_id = s.book_id
GROUP BY b.book_id, b.title
ORDER BY total_quantity DESC
LIMIT 1;