LIBRARY MANAGEMENT SYSTEM

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**Creating Author Table:**

CREATE TABLE authors (

author\_id INT PRIMARY KEY,

author\_name VARCHAR(100),

birth\_date DATE,

country VARCHAR(50)

);

**creating Book Table:**

CREATE TABLE authors (

author\_id INT PRIMARY KEY,

author\_name VARCHAR(100),

birth\_date DATE,

country VARCHAR(50)

);

**Creating Customer Table:**

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR(100),

email VARCHAR(255),

address VARCHAR(255)

);

**Creating order table:**

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

order\_date DATE,

customer\_id INT,

total\_amount DECIMAL(10, 2),

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

);

**creating OrderDetails tables:**

CREATE TABLE order\_details (

order\_detail\_id INT PRIMARY KEY,

order\_id INT,

book\_id INT,

quantity INT,

unit\_price DECIMAL(10, 2),

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

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

);

**Retrieve List of Top-Selling Books:**

SELECT

b.title AS book\_title,

a.author\_name,

SUM(od.quantity) AS total\_quantity\_sold

FROM

books b

JOIN

order\_details od ON b.book\_id = od.book\_id

JOIN

orders o ON od.order\_id = o.order\_id

JOIN

authors a ON b.author\_id = a.author\_id

GROUP BY

b.title, a.author\_name

ORDER BY

total\_quantity\_sold DESC;

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**Calculate Total Sales:**

SELECT

SUM(od.quantity \* od.unit\_price) AS total\_sales

FROM

order\_details od

JOIN

orders o ON od.order\_id = o.order\_id;

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