PostgreSQL: Library Management System

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-- Connect to the database
CREATE DATABASE LibraryDB;
\c LibraryDB;
-- Books Table
CREATE TABLE Books (
  book id SERIAL PRIMARY KEY,
  title VARCHAR(150) NOT NULL,
  author VARCHAR(100) NOT NULL,
  year published INT,
  available copies INT DEFAULT 1
);
-- Members Table
CREATE TABLE Members (
  member id SERIAL PRIMARY KEY,
  name VARCHAR(100) NOT NULL,
  email VARCHAR(100) UNIQUE,
  phone VARCHAR(20)
);
-- BorrowRecords Table
CREATE TABLE BorrowRecords (
  borrow id SERIAL PRIMARY KEY,
  book id INT REFERENCES Books(book id) ON DELETE CASCADE,
  member id INT REFERENCES Members(member id) ON DELETE CASCADE,
  borrow date DATE NOT NULL,
  return date DATE
);
-- Insert Books
INSERT INTO Books (title, author, year published, available copies) VALUES
('Introduction to Databases', 'John Smith', 2015, 3),
('Learning MySQL', 'Anna Brown', 2018, 2),
('Advanced PHP Programming', 'David White', 2020, 4);
-- Insert Members
INSERT INTO Members (name, email, phone) VALUES
('Alice Johnson', 'alice@example.com', '233501234567'),
('Bob Anderson', 'bob@example.com', '233509876543'),
('Cynthia Lee', 'cynthia@example.com', '233502345678');
-- Insert Borrow Records
```

INSERT INTO BorrowRecords (book_id, member_id, borrow_date, return_date) VALUES

- (1, 1, '2025-08-01', '2025-08-15'),
- (2, 2, '2025-08-05', NULL), -- Not yet returned
- (3, 3, '2025-08-10', '2025-08-20');