Assignment 4: Write SQL statements to CREATE a new database and tables that reflect the library schema you designed earlier. Use ALTER statements to modify the table structures and DROP statements to remove a redundant table.

```
Ans:
Step1:
CREATE TABLE Books (
  BookID INT AUTO_INCREMENT PRIMARY KEY,
  Title VARCHAR(255) NOT NULL,
  Author VARCHAR(255) NOT NULL,
  ISBN VARCHAR(20) NOT NULL UNIQUE
  );
  INSERT INTO Books (Title, Author, ISBN) VALUES
('1984', 'George Orwell', '9780451524935'),
('To Kill a Mockingbird', 'Harper Lee', '9780061120084'),
('Pride and Prejudice', 'Jane Austen', '9781503290563');
  drop table books;
  CREATE TABLE Borrowers (
  BorrowerID INT AUTO INCREMENT PRIMARY KEY,
  FirstName VARCHAR(255) NOT NULL,
  LastName VARCHAR(255) NOT NULL,
  Email VARCHAR(255) UNIQUE,
  PhoneNumber VARCHAR(15),
  RegistrationDate DATE NOT NULL
```

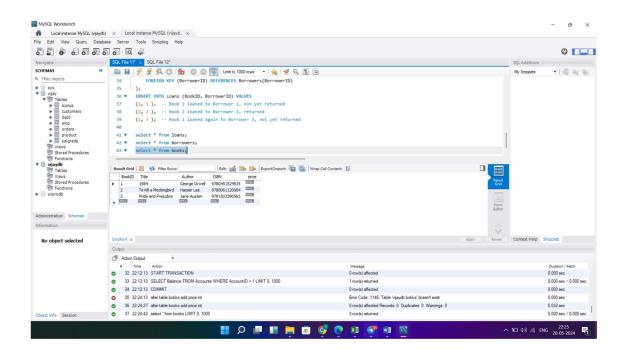
```
);
INSERT INTO Borrowers (FirstName, LastName, Email,
PhoneNumber, RegistrationDate) VALUES
('John', 'Doe', 'john.doe@example.com', '1234567890', '2022-01-
01'),
('Jane', 'Smith', 'jane.smith@example.com', '0987654321', '2022-02-
15'),
('Emily', 'Johnson', 'emily.j@example.com', '1122334455', '2022-03-
20');
CREATE TABLE Loans (
  LoanID INT AUTO_INCREMENT PRIMARY KEY,
  BookID INT NOT NULL,
  BorrowerID INT NOT NULL,
  FOREIGN KEY (BookID) REFERENCES Books(BookID),
  FOREIGN KEY (BorrowerID) REFERENCES Borrowers(BorrowerID)
);
INSERT INTO Loans (BookID, BorrowerID) VALUES
(1, 1),
(2, 2),
(1, 3);
```

Step2:

Alter statement use

For add one extra column in table

For rename the column name



Step4:

Use of drop command

Drop table xyz;

