Develop an Android App which is capable of supporting basic Library
Management functions such as;
Maintaining Books, Membership and Lending details
Your App is expected to create /maintain data in a SQLite database in
the device's SD card. The SQL commands listed below, gives you a suitable
table structure. Your App must provide the user facilities/ functions
[CRUD] to maintain- Book details, Book copy details, Member details,
Publisher details, Author details, Lending details, Branch details etc.

Your Task is to;

1. Analyze the requirements and develop   appropriate UIs -with buttons
2. Develop code to set up the tables
3. Develop codes to support CRUD functions for   each table
4. Integrate the above codes to respective Buttons
5. Make your App attractive, and useful by   (if necessary) adding more
    features appropriately.
6. Test with real (acceptable) data.

```
CREATE TABLE  Book(
    BOOK_ID VARCHAR(13),
    TITLE   VARCHAR(30),
    PUBLISHER_NAME VARCHAR(20),
    PRIMARY KEY (BOOK_ID));

CREATE TABLE Publisher(
    NAME VARCHAR(20),
    ADDRESS VARCHAR(30),
    PHONE   VARCHAR(10),
    PRIMARY KEY (NAME));

CREATE TABLE Branch(
    BRANCH_ID   VARCHAR(5),
    BRANCH_NAME VARCHAR(20),
    ADDRESS     VARCHAR(30),
    PRIMARY KEY (BRANCH_ID));

CREATE TABLE Member(
    CARD_NO      VARCHAR(10),
    NAME         VARCHAR(20),
    ADDRESS      VARCHAR(30),
    PHONE      VARCHAR(10),
    UNPAID_DUES NUMBER(5,2),
    PRIMARY KEY (CARD_NO));

CREATE TABLE Book_Author(
     BOOK_ID       VARCHAR(13),
     AUTHOR_NAME  VARCHAR(20),
     PRIMARY KEY(BOOK_ID, AUTHOR_NAME),
     FOREIGN KEY(BOOK_ID) REFERENCES Book);

 CREATE TABLE Book_Copy(
     BOOK_ID  VARCHAR(13),
     BRANCH_ID VARCHAR(5),
     ACCESS_NO VARCHAR(5),
     PRIMARY KEY(ACCESS_NO, BRANCH_ID),
     FOREIGN KEY(BOOK_ID) REFERENCES Book,
     FOREIGN KEY(BRANCH_ID) REFERENCES Branch);

CREATE TABLE Book_Loan(
    ACCESS_NO  VARCHAR(5),
    BRANCH_ID VARCHAR(5),
    CARD_NO  VARCHAR(5),
    DATE_OUT DATE,
    DATE_DUE DATE,
    DATE_RETURNED DATE,
    PRIMARY KEY(ACCESS_NO, BRANCH_ID, CARD_NO, DATE_OUT),
    FOREIGN KEY(ACCESS_NO, BRANCH_ID) REFERENCES Book_Copy,
    FOREIGN KEY(CARD_NO) REFERENCES Member,
    FOREIGN KEY(BRANCH_ID) REFERENCES Branch);
```