**Assignment 3 : Write an SQL query in Library DB?**

**DROP DATABASE IF EXISTS libraryDB;**

**CREATE DATABASE libraryDB;**

**USE libraryDB;**

**CREATE TABLE Book (**

**book\_id INT PRIMARY KEY,**

**title VARCHAR(255) NOT NULL,**

**author VARCHAR(255) NOT NULL,**

**genre VARCHAR(50),**

**publication\_year INT,**

**ISBN VARCHAR(13) UNIQUE**

**);**

**CREATE TABLE Member (**

**member\_id INT PRIMARY KEY,**

**first\_name VARCHAR(50) NOT NULL,**

**last\_name VARCHAR(50) NOT NULL,**

**address TEXT,**

**phone\_number VARCHAR(10)**

**);**

**CREATE TABLE Borrowing (**

**borrowing\_id INT PRIMARY KEY,**

**date\_borrowed DATE NOT NULL,**

**book\_id INT,**

**member\_id INT,**

**date\_due DATE NOT NULL,**

**date\_returned DATE,**

**FOREIGN KEY (book\_id) REFERENCES Book(book\_id),**

**FOREIGN KEY (member\_id) REFERENCES Member(member\_id),**

**CHECK (date\_returned IS NULL OR date\_returned >= date\_borrowed)**

**);**

**CREATE TABLE Reservation (**

**reservation\_id INT PRIMARY KEY,**

**book\_id INT,**

**member\_id INT,**

**date\_reserved DATE NOT NULL,**

**FOREIGN KEY (book\_id) REFERENCES Book(book\_id),**

**FOREIGN KEY (member\_id) REFERENCES Member(member\_id)**

**);**

**INSERT INTO Book (book\_id, title, author, genre, publication\_year, ISBN) VALUES**

**(101, 'abc', 'anurag thakur', 'xyz', '2022',0892392301230),**

**(102, 'abc', 'anurag thakur', 'xyz', '2022',0892392301231);**

**INSERT INTO Member (member\_id,first\_name,last\_name,address,phone\_number) VALUES**

**(1,'rahul','singh','mumbai',1234567890),**

**(2,'rahul','singh','mumbai',1234567891);**

**INSERT INTO Borrowing (borrowing\_id,date\_borrowed,book\_id,member\_id,date\_due,date\_returned) VALUES**

**(1001,'2024-03-23',101,1,'2024-03-25','2024-03-25'),**

**(1002,'2024-03-23',102,2,'2024-03-25','2024-03-25');**

**INSERT INTO Reservation (reservation\_id,book\_id,member\_id,date\_reserved) VALUES**

**(11,101,1,'2024-03-28'),**

**(12,102,2,'2024-03-28');**