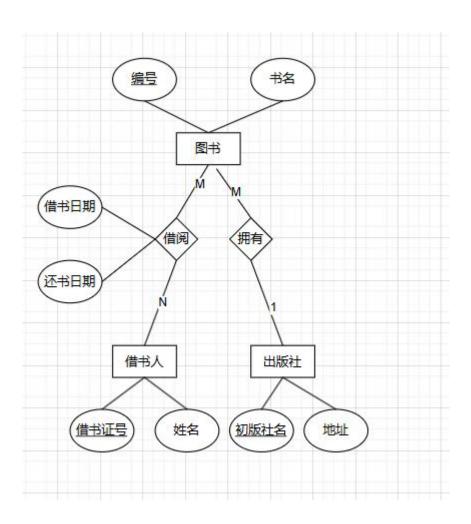
(1) (30 分)根据需求画出概念模型(E-R图),并在图中注明实体的属性、关系类型以及约束。



## (2) (20 分)将概念模型转换为逻辑模型和物理模型

借书人表 (Borrowers)

**BorrowerID INT PRIMARY KEY** 

Name VARCHAR(100)

图书表 (Books)

**BookID INT PRIMARY KEY** 

Title VARCHAR(255)

PublisherName VARCHAR(255) FOREIGN KEY REFERENCES Publishers(PublisherName)

出版社表 (Publishers)

PublisherName VARCHAR(255) PRIMARY KEY

Address VARCHAR(255)

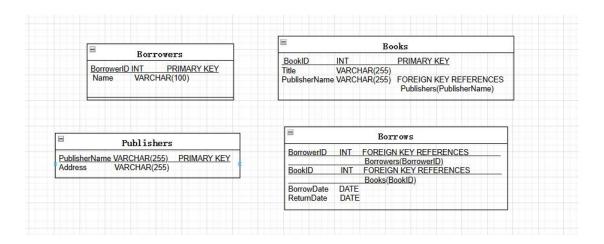
借阅表 (Borrows)

BorrowerID INT FOREIGN KEY REFERENCES Borrowers(BorrowerID)

BookID INT FOREIGN KEY REFERENCES Books(BookID)

**BorrowDate DATE** 

ReturnDate DATE



(3)(30分)生成 DDL的 SQL 脚本,并在数据库中创建数据库表。 展示 SQL 脚本并截图展示创建成功的表结构。

```
CREATE TABLE Publishers (
    PublisherName VARCHAR(255) PRIMARY KEY,
    Address VARCHAR(255)
);
CREATE TABLE Books (
    BookID INT PRIMARY KEY,
    Title VARCHAR(255),
    PublisherName VARCHAR(255),
    FOREIGN KEY (PublisherName) REFERENCES Publishers(PublisherName)
);
CREATE TABLE Borrowers (
    BorrowerID INT PRIMARY KEY,
    Name VARCHAR(100)
);
CREATE TABLE Borrows (
    BorrowerID INT,
    BookID INT,
    BorrowDate DATE,
    ReturnDate DATE,
    FOREIGN KEY (BorrowerID) REFERENCES Borrowers(BorrowerID),
    FOREIGN KEY (BookID) REFERENCES Books(BookID)
);

✓ 品 test

✓ □ tables 4

           > III books
            > III borrowers
            > III borrows
           > III publishers
```

```
| Note | Console | Console
```