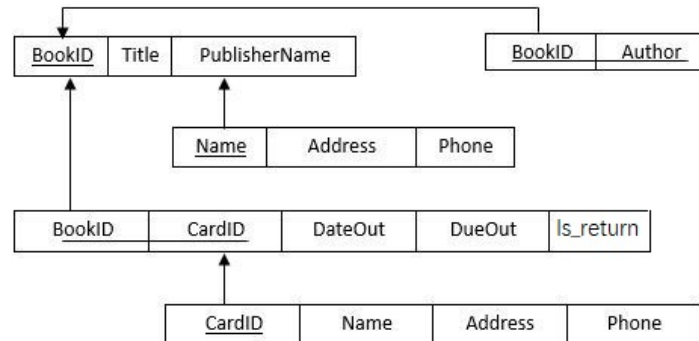


# 中国矿业大学《数据库原理》作业

作业名称	单元作业 3	姓名	胡钧耀	任课教师	闫秋艳	时间	2021.4.5
学 院	计算机学院	班级	计科 19-4 班	学 号	06192081	成绩	



/\*建立图中的关系模式\*/

```
CREATE TABLE 书 (
    BookId CHAR(10) PRIMARY KEY,
    Title CHAR(20),
    PublisherName CHAR(20));
```

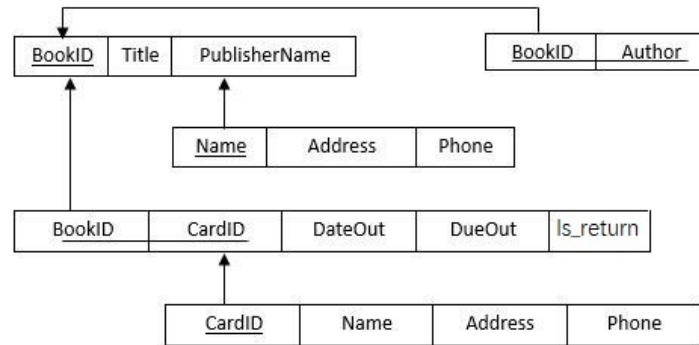
```
CREATE TABLE 出版社 (
    Name CHAR(20) REFERENCES 出版社(Name),
    Address CHAR(20),
    Phone CHAR(12)
    PRIMARY KEY(Name));
```

```
CREATE TABLE 作者 (
    BookId CHAR(10) REFERENCES 书(BookId),
    Author CHAR(8),
    PRIMARY KEY(BookId,Author));
```

```
CREATE TABLE 借阅信息 (
    BookId CHAR(10) REFERENCES 书(BookId),
    CardId CHAR(8),
    DateOut DATE,
    DueOut DATE,
    Is_return BOOLEAN,
    PRIMARY KEY (BookId,CardId));
```

```
CREATE TABLE 借阅人 (
    CardId CHAR(8) REFERENCES 借阅人(CardId),
    Name CHAR(20),
    Address CHAR(20),
    Phone CHAR(12),
    PRIMARY KEY(CardId));
```

# 中国矿业大学《数据库原理》作业



/\*1 查询“高等教育出版社”出版的所有图书名称和编号\*/

```
SELECT Title, BookId
FROM 书
WHERE PublisherName = "高等教育出版社";
```

/\*2 查询所有作者是“郭雨辰”的图书的编号和名称\*/

```
SELECT BookId, Title
FROM 书
WHERE BookId in
  (SELECT BookId
   FROM 作者
   WHERE Author = "郭雨辰");
```

/\*3 查询“王丽”借过的所有图书的名称\*/

```
SELECT Title
FROM 书
WHERE BookId in
  (SELECT BookId
   FROM 借阅信息
   WHERE CardId in
     (SELECT CardId
      FROM 借阅人
      WHERE Name = "王丽"));
```

/\*4 查询“李明”在2018年上半年期间借过的图书名称\*/

```
SELECT Title
FROM 书
WHERE BookId IN
  (SELECT BookId
   FROM 借阅信息
   WHERE DateOut BETWEEN 01-01-2018 AND 06-30-2018 AND CardId IN
     (SELECT CardId
      FROM 借阅人
      WHERE Name = "李明"));
```

# 中国矿业大学《数据库原理》作业

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/\*5 建立视图，显示 2017 年期间没有被人借过的图书编号和名称\*/

CREATE VIEW 2017 无人借过

AS

```
SELECT BookId, Title
FROM 书
WHERE BookId NOT IN
      (SELECT BookId
       FROM 借阅信息
       WHERE DateOut BETWEEN 01-01-2017 AND 12-31-2017);
```

/\*6 建立超期未归还书籍的视图，显示图书编号和名称，以及借书人姓名和电话\*/

CREATE VIEW 超期未归

AS

```
SELECT BookId, Title, Name, Phone
FROM 书, 借阅信息, 借阅人
WHERE 书.BookId = 借阅信息.BookId
      AND 借阅信息.CardId = 借阅人.CardId
      AND Is_return = false;
```

/\*7 建立热门书籍的视图，显示 2017 年期间借出次数最多的 10 本图书名称\*/

CREATE VIEW 2017 热门前十

AS

```
SELECT TOP 10 Title
FROM 书, 借阅信息
WHERE 书.BookId = 借阅信息.BookId
      AND DateOut BETWEEN 01-01-2017 AND 12-31-2017
GROUP BY Title
ORDER BY COUNT(Title) DESC;
```

/\*8 增加新书《大数据》，书号“TP319-201”，“广西师范大学出版社”出版，作者“涂子沛”\*/

INSERT INTO 书

```
VALUES("TP319-201", "大数据", "广西师范大学出版社");
```

INSERT INTO 作者

```
VALUES("TP319-201", "涂子沛");
```

/\*9 将“高等教育出版社”的电话改为“010—64054588”\*/

UPDATE 出版社

```
SET Phone = "010-64054588"
```

```
WHERE Name = "高等教育出版社";
```

/\*10 删除书号为“D001701”的书籍信息\*/

DELETE

FROM 书

```
WHERE BookId = "D001701";
```