SQL 查询

一、银行数据库

分行表: branch (branch-name, branch-city, assets)

存款账户表: account (account-number, branch-name, balance)

贷款账户表: loan (loan-number, branch-name, amount)

客户表: customer (customer-name, customer-street, customer-city)

存款人表: depositor (customer-name, account-number)

贷款人表: borrower (customer-name, loan-number)

1、找出在银行中同时有存款和贷款账户的客户(分别用带 IN 和 EXIST 谓词的 嵌套查询完成)

①IN:

- 1. select distinct customer-name
- 2. **from** borrower
- 3. where customer-name in (select customer-name
- 4. **from** depositor)

②EXIST:

- 1. select distinct customer-name
- 2. **from** borrower
- 3. where customer-name exists (select * from depositor
- 4. where depositor. customer-
- 5. name =borrower. customer-name)
- 2、找出那些总资产(assets)至少比位于 Brooklyn 的某一家分行要多的支行名字(用 ANY 谓词完成)
 - 1. select branch-name
 - 2. **from** branch
 - where assets > any (select assets
 - 4. **from** branch
 - 5. where branch-city = 'Brooklyn')
- 3、找出平均存款余额(balance)最高的分行名字
 - select branch-name
 - 2. **from** account
 - 3. group by branch-name
 - 4. having AVG >= ALL (select AVG (balance)
 - 5. **from** account
 - 6. **group by** branch-**name**)

二、计算机产品数据库(要求:在 SQL Server/MySQL 中创建数据库、执行查询并验证结果)

Product(maker, model, type)

PC(model, speed, ram, hd, price)

Laptop(model, speed, ram, hd, screen, price)

- 1、查询每个制造商及其生产的最低价格的笔记本型号
 - 1. SELECT P.maker, L.model, MIN(L.price) as min_price
 - 2. FROM Product AS P
 - 3. JOIN Laptop AS L ON P.model = L.model
 - 4. GROUP BY P.maker, L.model;

SQLQuery1.sql -...据库 (X枫\项枫 (64))* □ ×

□ SELECT P. maker, L. model, MIN(L. price) as min_price
FROM Product AS P

JOIN Laptop AS L ON P. mode1 = L. mode1

GROUP BY P. maker, L. model;

100 % ▼ ◀

≡ 结果 № 消息

	maker	mode1	min_price
1	A	2004	1150
2	В	2005	2500
3	D	2006	2800

2、查询生产的笔记本的硬盘容量不小于 100GB 的制造商

```
    SELECT DISTINCT P.maker
    FROM Product AS P
    JOIN Laptop AS L ON P.model = L.model
    WHERE L.hd >= 100;
```

SQLQuery1.sql -...据库 (X枫\项枫 (64))* □ ×

```
FROM Product AS P

JOIN Laptop AS L ON P. mode1 = L. mode1

WHERE L. hd >= 100;
```

100 % ▼ 4 ■ 结果 ■ 消息

maker	
В	
D	

- 3、查询生产最快速度的计算机的制造商
- 三、用差集法查询选修了全部课程的学生姓名