作业

- 计算机产品数据库
 - Product(maker, model, type)
 - PC(model, speed, ram, hd, price)

Databas

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

Product

maker	model	type
Α	1001	рс
А	1002	рс
Α	2004	laptop
В	1003	рс
В	2005	laptop
С	1004	рс

PC

model	speed	ram	hd	price
1001	2.66	1024	250	2114
1002	2.10	512	250	995
1003	1.42	512	80	478
1004	2.80	1024	250	649

Laptop

model	speed	ram	hd	screen	price
2004	2.00	512	60	13.3	1150
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作业

- 计算机产品数据库,写出SQL查询语句:
 - 查询每个制造商及其生产的最低价格的笔记本型号
 - 查询生产的笔记本的硬盘容量不小于100GB的制造商
 - 查询生产最快速度的计算机的制造商

Product

maker	model	type
Α	1001	рс
Α	1002	рс
А	2004	laptop
В	1003	рс
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PC

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Laptop

model	speed	ram	hd	screen	price
2004	2.00	512	60	13.3	1150
2005	2.16	1024	120	17.0	2500

- 查询每个制造商及其生产的最低价格的笔记本型号
 - 查询制造商maker生产的笔记本的最低价格

select min(Laptop.price)

from Product, Laptop

where Product.model = Laptop.model and

Product.maker = maker

查询每个制造商及其生产的最低价 格的笔记本型号(难点:相关嵌套 子香询) select P1.maker, P1.model from Product P1, Laptop L1 where P1.model = L1.modeland L1.price = select min(L2.price) from Product P2, Laptop L2 where P2.model = L2.modeland P2.maker = P1.maker

查询生产的笔记本的硬盘容量不 小于100GB的制造商

select distinct Product.maker

from Product, Laptop

where Product.model = Laptop.model and
Laptop.hd >= 100

查询生产最快速度的PC的制造商

```
select DISTINCT P.maker
from Product P
where P.model in (
  select PC.model
  from PC
  where PC.speed = (
     select MAX(PC1.speed)
     from PC1
```

Product

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А	1001	рс
А	1002	рс
Α	2004	laptop
В	1003	рс
В	2005	laptop
С	1004	рс

PC

model	speed	ram	hd	price
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Laptop

model	speed	ram	hd	screen	price
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2005	2.16	1024	120	17.0	2500

- 查询生产最快速度的计算机的制造商
 - 查询所有计算机(包括PC和笔记本)的型号和速度 select PC.model, PC.speed from PC UNION

select LP.model, LP.speed from Laptop LP

查询生产最快速度的计算机的制造商

```
select DISTINCT P.maker
from Product P
where P.model in (
  select Computer.model
  from Computer
  where Computer.speed = (
     select MAX(Computer1.speed)
     from Computer1
```

查询生产最快速度的计算机的制造商

```
select DISTINCT P.maker
from Product P
where P.model in (
   select Computer.model
   from (select PC.model, PC.speed
        from PC
        UNION
        select LP.model, LP.speed
        from Laptop LP) AS Computer
   where Computer.speed = (
        select MAX(Computer1.speed)
        from (select PC1.model, PC1.speed
             from PC PC1
             UNION
             select Lp1.model, Lp1.speed
             fromLaptop Lp1) AS Computer1)
```