数据库实验报告

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1. 题目：创建触发器并进行测试。
2. 代码及结果：
3. 首先创建相应的数据库warehouse：create table inventory(item numeric(3,0),level numeric(5,0),primary key(item));create table minlevel(item numeric(3,0),level numeric(5,0),primary key(item,level),foreign key(item)references inventory);create table reorder(item numeric(3,0),amount numeric(5,0),primary key(item,amount),foreign key(item)references inventory);create table orders(item numeric(3,0),amount numeric(5,0),primary key(item,amount),foreign key(item)references inventory); 其中order表中数据为空方便测试。
4. 触发器代码：create trigger reorder\_trigger on inventory after update as declare @item numeric(3,0);

select @item=item from deleted;

if exists(select level from inserted where inserted.level<=(select level from minlevel where [minlevel.item=@item)](mailto:minlevel.item=@item)))

and exists(select level from deleted where deleted.level>=(select level from minlevel where [minlevel.item=@item)](mailto:minlevel.item=@item)))

begin

insert into orders select item,amount from reorder where [reorder.item=@item](mailto:reorder.item=@item)

end

1. 测试：update inventory set level=8000 where item=’100’;

结果order表由空变成