第十二次实验

(1)建立一个在worker表上的触发器T4,要求插入记录的sage值必须比表中已记录的 最大sage值大

```
use school
go
create trigger t4 on worker
for insert
sas
if (select sage from inserted) < (select max(sage) from worker)
begin
print('The inserted sage must be more than the maxium one in worker!')
rollback transaction
end</pre>
```

```
use school
go
create trigger t4 on worker
for insert
as
if (select sage from inserted) < (select max(sage) from worker)
begin
print('The inserted sage must be more than the maxium one in worker!')
rollback transaction
end

100%

消息
命令已成功完成。
```

(2)演示违反触发器T4的操作,即插入一条比表中已记录的最大sage值小的记录。

完成时间: 2021-11-29T14:41:23.6823916+08:00

```
1 | insert into worker values('00006','孙亚','M',100,'游戏部')
        The inserted sage must be more than the maxium one in worker!
        消息 3609, 级别 16, 状态 1, 第 1 行
         事务在触发器中结束。批处理已中止。
        完成时间: 2021-11-29T14:43:57.2115398+08:00
(3)建立一个在worker表上的触发器T5,要求当更新一个记录的时候,表中记录的
sage值要比老记录的sage值大,因为一般工资级别只能升不能降。
```

```
1 use school
   create trigger t5 on worker
 3
   for update
 5
   if (select sage from inserted) < (select sage from deleted)</pre>
 6
 7
 8
   print('The new sage must be more than the original one!')
   rollback transaction
10
   end
```

```
use school
  ⊟create trigger t5 on worker
   for update
   as
  if (select sage from inserted) < (select sage from deleted)
  ⊟begin
   print('The new sage must be more than the original one!')
   rollback transaction
  end
00 % ▼ <
ᆲ 消息
  命令已成功完成。
  完成时间: 2021-11-29T14:46:56.9364037+08:00
```

(4)演示违反触发器T5的操作。

```
The new sage must be more than the original one!
消息 3609, 级别 16, 状态 1, 第 1 行
事务在触发器中结束。批处理已中止。
完成时间: 2021-11-29T14:49:05.5140277+08:00
```

(5)为worker表建立触发器T6,禁止修改编号为00001的记录。

```
1 use school
 2
   go
   create trigger t6 on worker
 3
 4
   for update
 5
   if '00001' in (select number from deleted)
 6
 7
   begin
   print('Record 00001 cannot be changed!')
9
   rollback transaction
10 end
```

```
use school
go
□create trigger t6 on worker
for update
as
□if '00001' in (select number from deleted)
begin
□print('Record 00001 cannot be changed!')
rollback transaction
end

100 %
□ 消息
命令已成功完成。
完成时间: 2021-11-29T14:58:00.6326325+08:00
```

1 update worker set sage=100 where number='00001'

Record 00001 cannot be changed! 消息 3609, 级别 16, 状态 1, 第 1 行 事务在触发器中结束。批处理已中止。

完成时间: 2021-11-29T14:58:08.2123586+08:00

(6)建立基于students和stu_card两个表的视图,创建INSTEADOF触发器使该视图支持更新操作,并演示更新操作。 (注: stu_card的建表见PPT10参照完整性page10)

```
create view sss as
select st.sid,st.sname,sd.money
from students st,stud_card sd
where st.sid=sd.sid
```

```
□ create view sss as
select st.sid, st.sname, sd.money
from students st, stud card sd
where st.sid=sd.sid

□ 消息
命令已成功完成。
```

完成时间: 2021-11-29T15:12:17.8637487+08:00

```
1 create trigger instead on sss
   instead of insert
 2
 3
    as
 4
   begin
 5
        set nocount on
        if (NOT EXISTS
 6
 7
            (select s.sid from sss s,inserted i
 8
             where s.sid=i.sid))
 9
        begin
            insert into students
10
                select sid, sname, null, null from inserted
11
            insert into stud_card
12
```

```
select sid, sname, money from inserted
end
end
end
```

```
⊟create trigger instead on sss
    instead of insert
    as
  ⊟begin
        set nocount on
       if (NOT EXISTS
            (select s. sid from sss s, inserted i
             where s. sid=i.sid))
  ₽
      begin
            insert into students
                select sid, sname, null, null from inserted
            insert into stud card
                select sid, sname, money from inserted
        end
   end
100 % ▼ ◀
■ 消息
  命令已成功完成。
  完成时间: 2021-11-29T15:23:23.2794636+08:00
```

```
insert into sss values('1','hhh',30)
select * from sss
```

