

# EX10

## 练习1

1. 建立worker表，并自定义两个约束U1，U2，其中U1规定Name字段唯一，U2规定sage(级别) 字段的上限为28。并在worker表中插入一条合法记录。

```
use school
create table worker
(
  number char(5),
  name char(8) constraint u1 unique,
  sex char(1),
  sage int constraint u2 check (sage <= 28),
  department char(20),
  constraint pk_worker primary key(number)
)

insert into worker(number, name, sex, sage, department)
values('00001', '李勇', 'M', 14, '科技部')
select * from worker
```

对象资源管理器

连接(O) ▾

- 系统表
- dbo.CHOICES
- dbo.COURSES
- dbo.STUDENTS
- dbo.TEACHERS
- dbo.worker
  - 列
    - number (PK, char(5), not null)
    - name (char(8), null)
    - sex (char(1), null)
    - sage (int, null)
    - department (char(20), null)
  - 键
    - pk\_worker
    - u1
  - 约束
    - u2
  - 触发器
  - 索引
  - 统计信息
- 视图
- 同义词
- 可编程性
- Service Broker

e1.sql - (local).Sc...B2V7J46\guzy0 (53)

```
use school
create table worker
(
    number char(5),
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    sex char(1),
    sage int constraint u2 check (sage <= 28),
    department char(20),
    constraint pk_worker primary key(number)
)

insert into worker(number, name, sex, sage, department)
values('00001', '李勇', 'M', 14, '科技部')
select * from worker
```

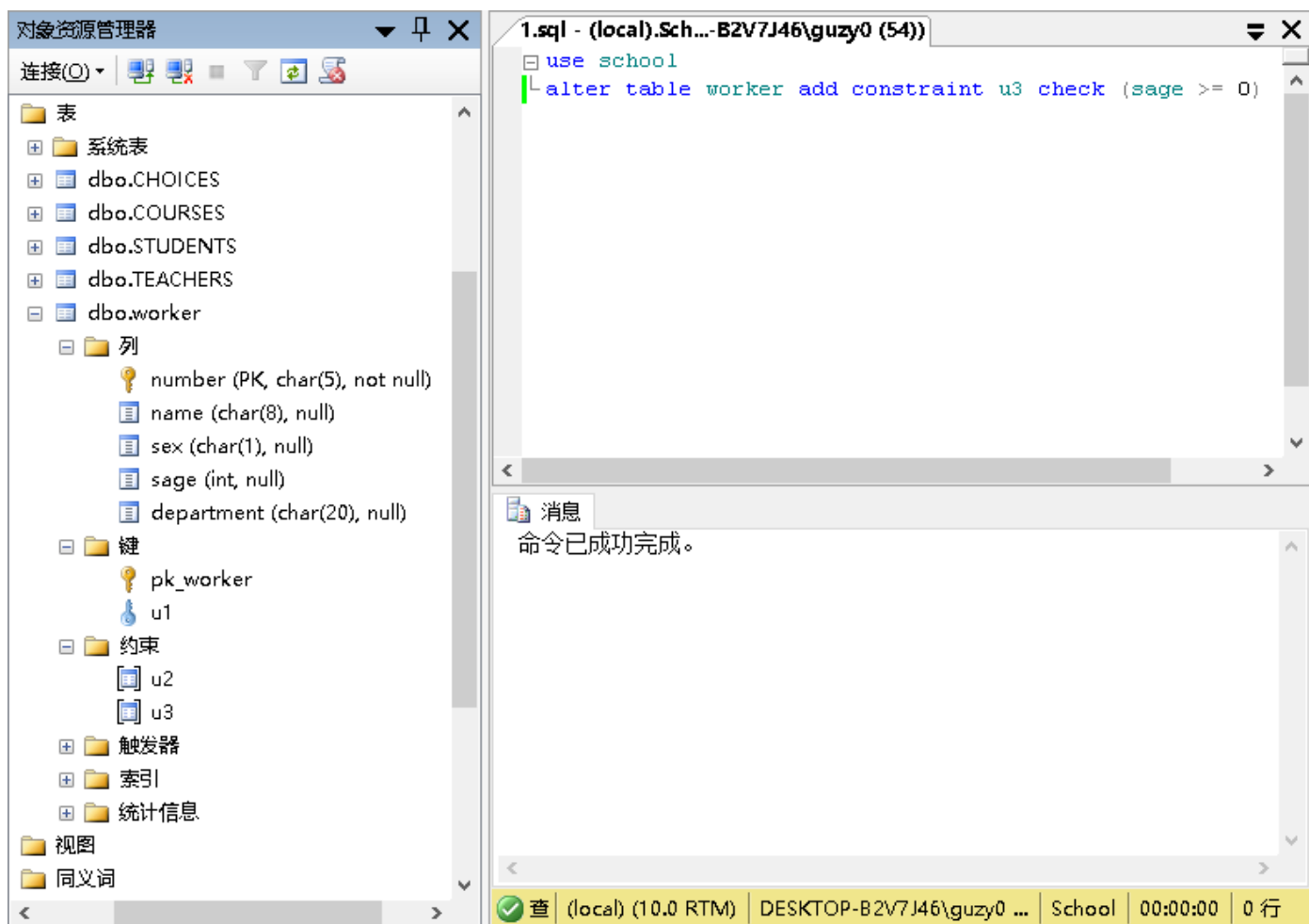
结果 消息

	number	name	sex	sage	department
1	00001	李勇	M	14	科技部

✓ 查 (local) (10.0 RTM) | DESKTOP-B2V7J46\guzy0 ... | School | 00:00:00 | 1 行

2. 加入约束U3, 令sage值大于等于0。

```
use school
alter table worker add constraint u3 check (sage >= 0)
```



## 练习2

演示插入违反约束U3的记录。

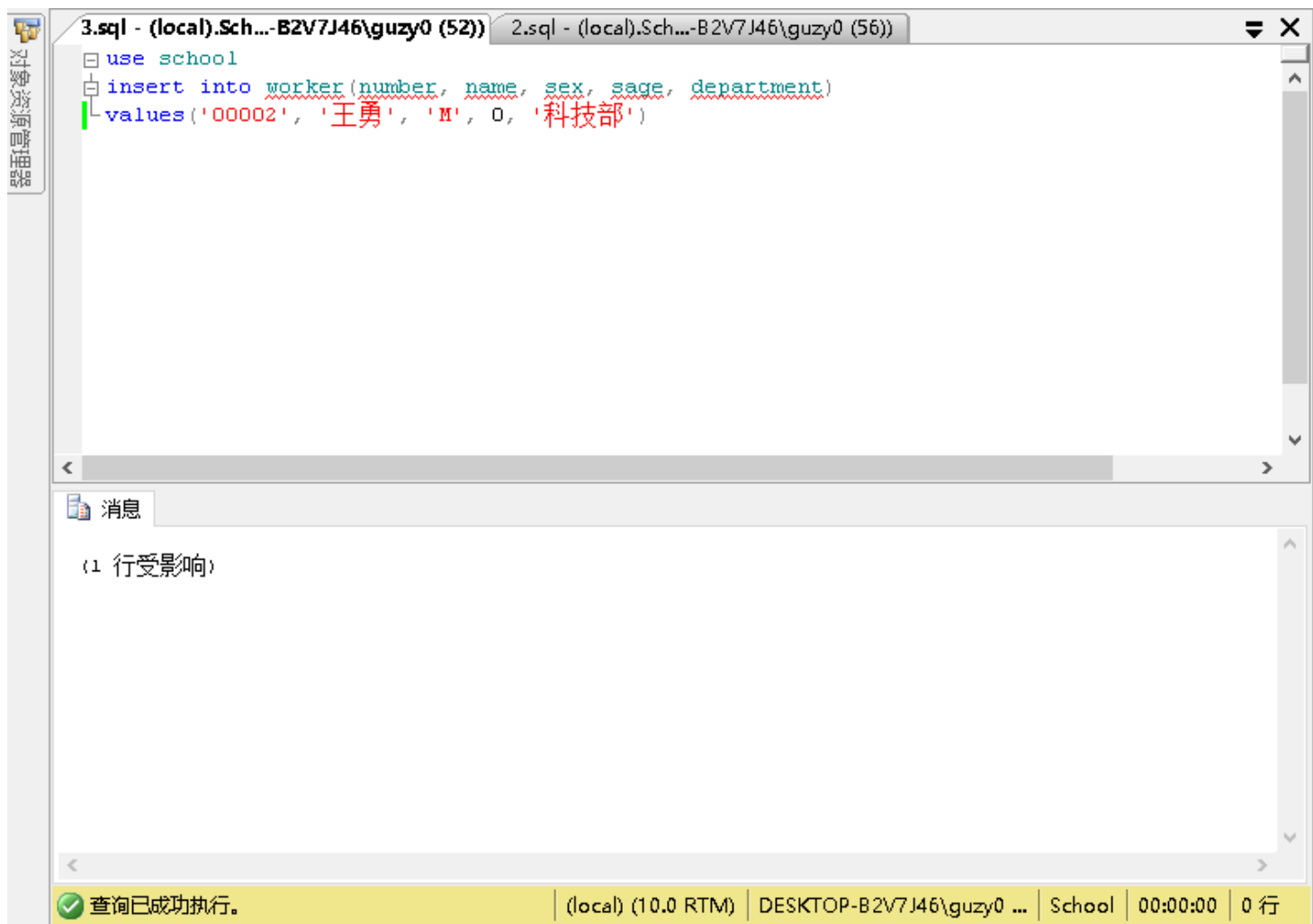
```
use school
insert into worker(number, name, sex, sage, department)
values('00002', '王勇', 'M', -1, '科技部')
```



## 练习3

演示插入不违反约束U3的记录。

```
use school
insert into worker(number, name, sex, sage, department)
values('00002', '王勇', 'M', 0, '科技部')
```

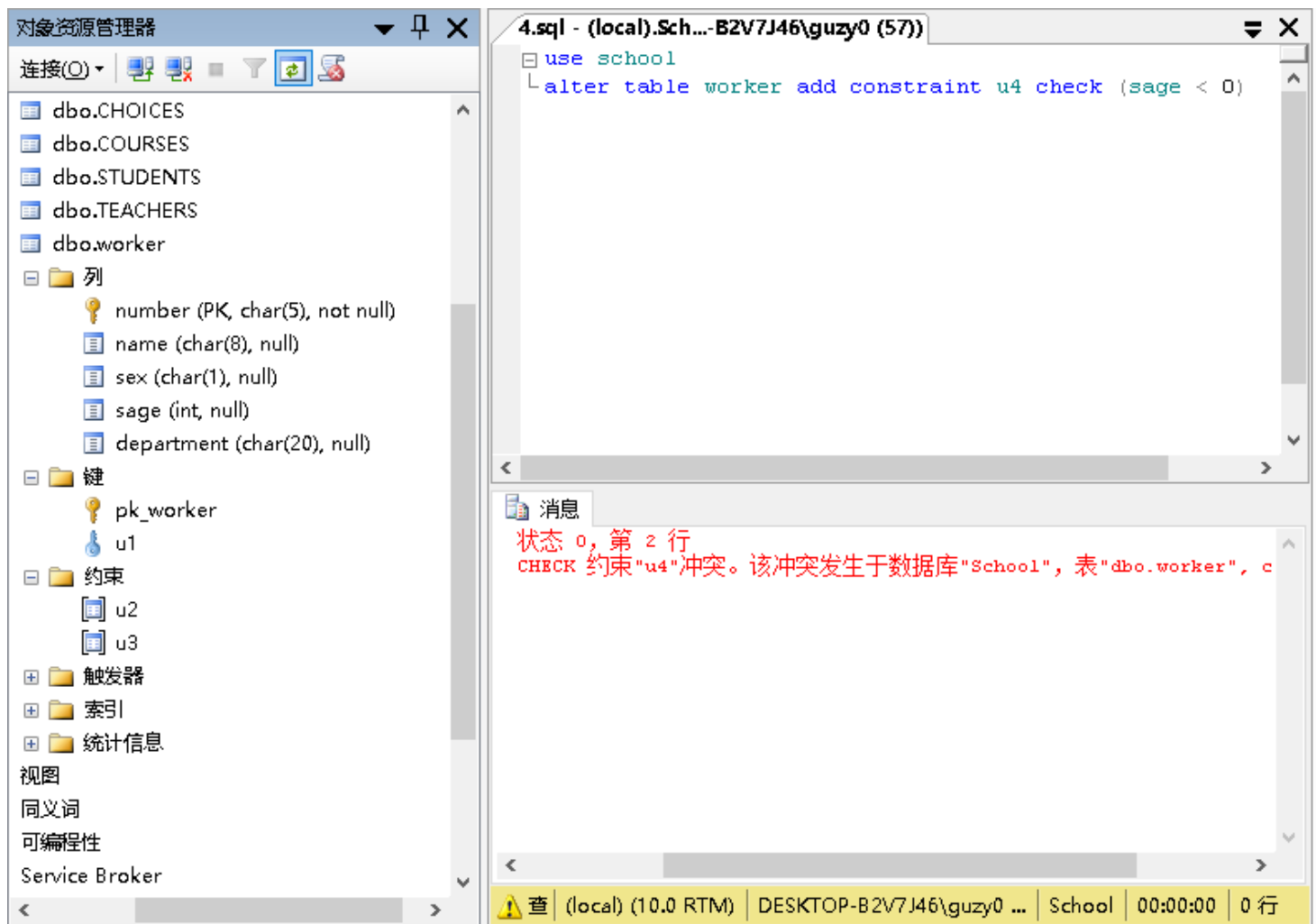


## 练习4

加入约束U4，令sage值<0，观察执行是否成功，分析原因。

```
use school
alter table worker add constraint u4 check (sage < 0)
```

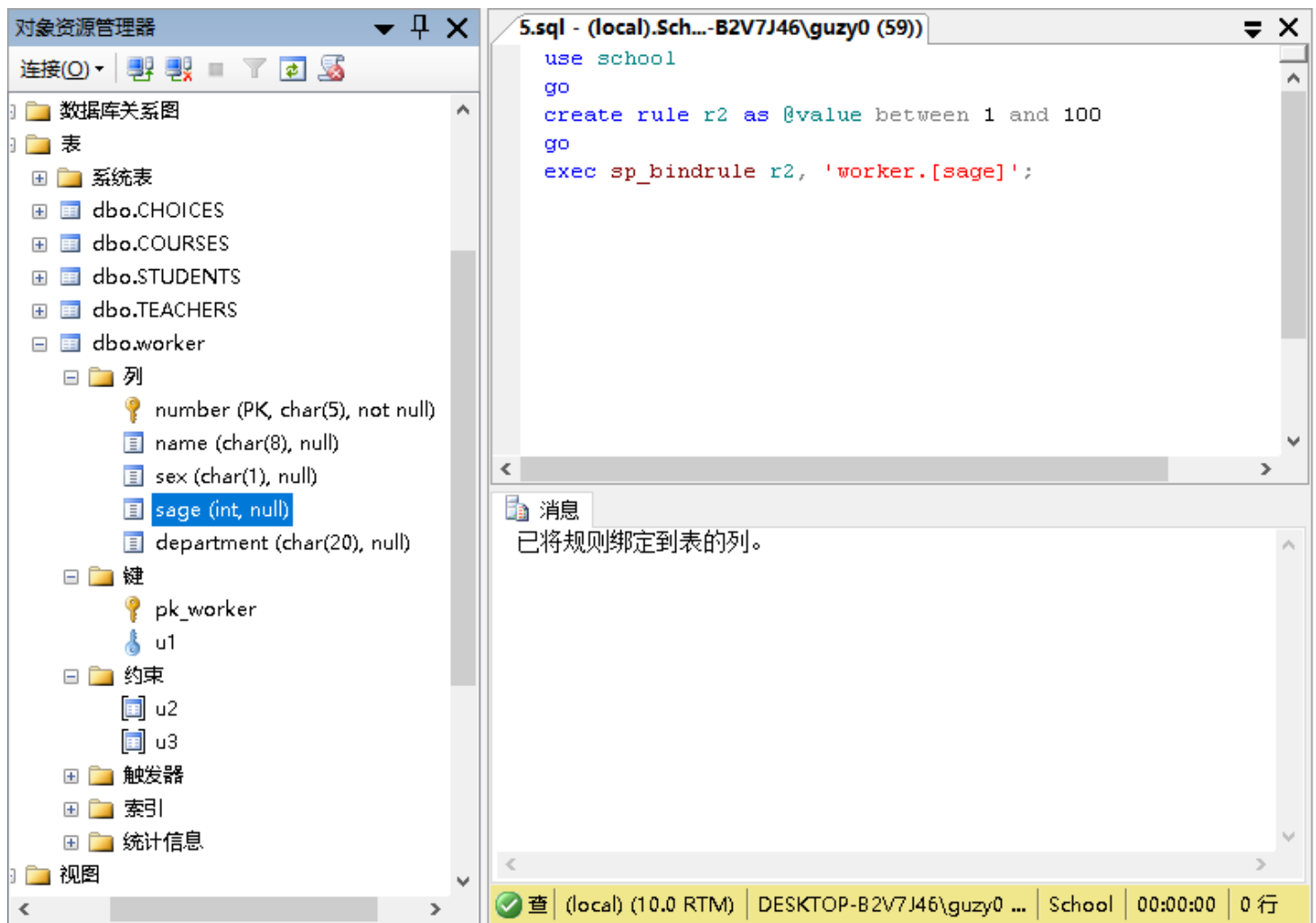
因为其约束u3冲突。



## 练习5

加入规则R2，确保插入的记录的sage值在1到100之间，并绑定到sage属性。

```
use school
go
create rule r2 as @value between 1 and 100
go
exec sp_bindrule r2, 'worker.[sage]';
```



## 练习6

演示插入违反R2的记录。

```
use school
insert into worker(number, name, sex, sage, department)
values('00003', '王浩', 'M', 101, '研发部')
```

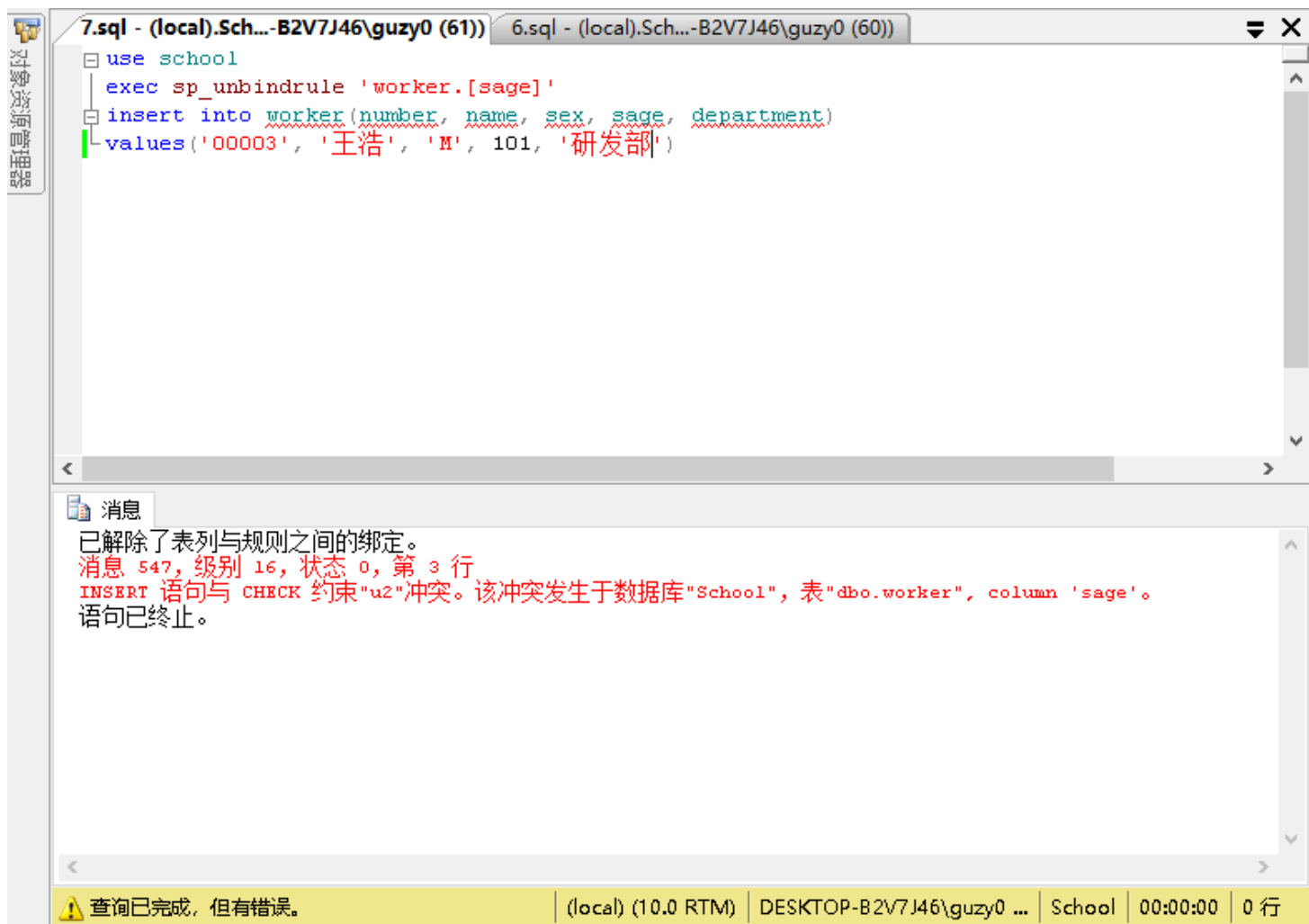


## 练习7

解除规则R2的绑定, 并重复(6)的操作。

```
use school
exec sp_unbindrule 'worker.[sage]'
insert into worker(number, name, sex, sage, department)
values('00003', '王浩', 'M', 101, '研发部')
```

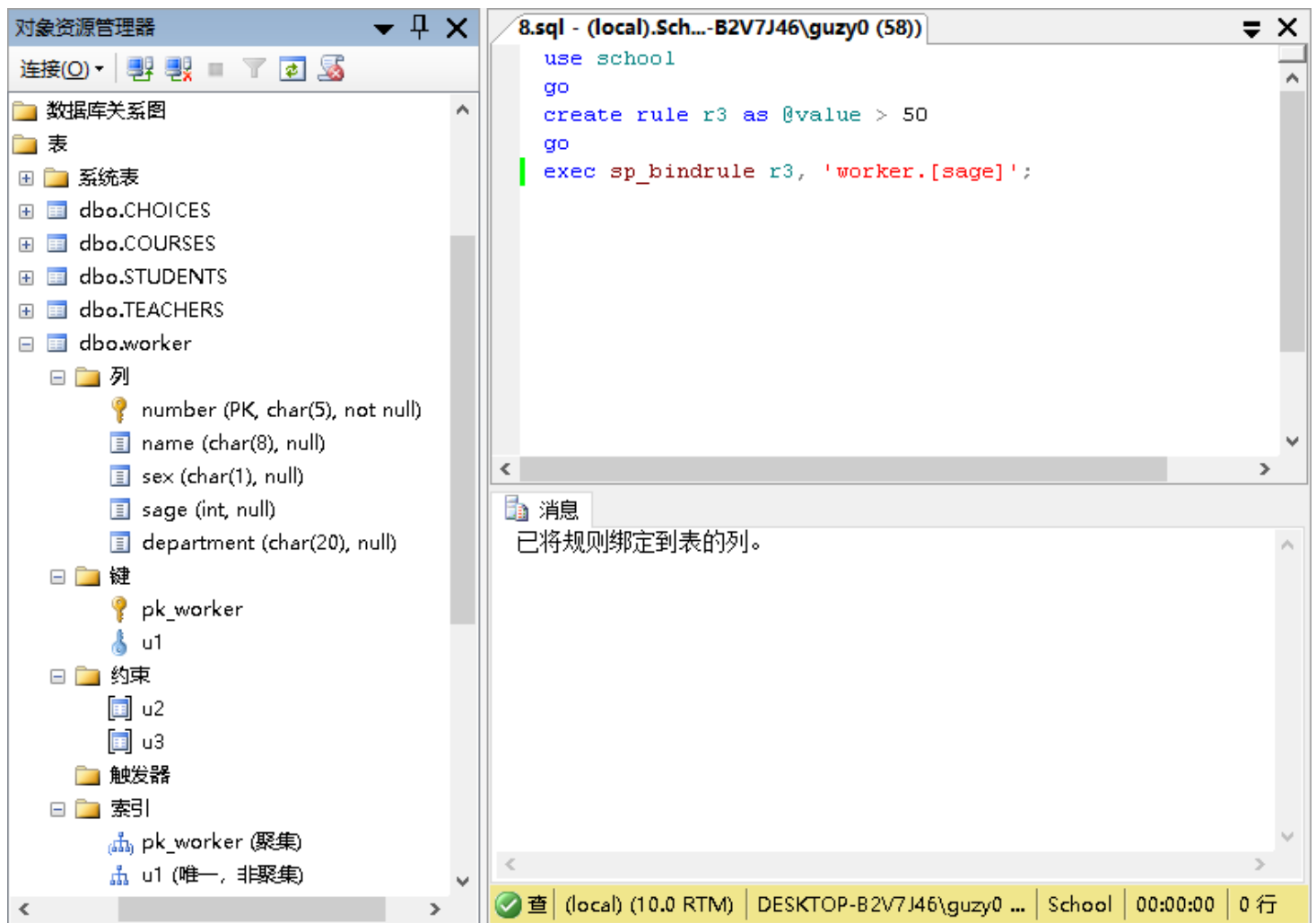




## 练习8

已知示例三中已插入sage为38的记录, 那么加入规则R3, 令sage大于50。观察加入规则R3的操作是否能成功。

```
use school
go
create rule r3 as @value > 50
go
exec sp_bindrule r3, 'worker.[sage]';
```



## 感想

constraint和constraint之前彼此冲突会出错；constraint和rule则是不同级的，会优先判断rule。