第三章 补充习题 3-4

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编程要求： 实现视图查询语句转换

使用说明：

#0 内置视图如下：

create view Student_Course

as select s.Sno, s.Name, c.Course_no, Title

from Students s, SC e, Courses c

where s.Sno = e.Sno and e.Course_no = c.Course_no

#1 对话框打印出"Please enter SQL request:"语句后，用户可以键入相应的 SQL 嵌套

语句。注：所有语句请在一行中输入。

```
Please enter SQL request:
select * from Student_Course where Sno = X
TRANSFORMED: select s.Sno, s.Name, c.Course_no, Title from Students s, SC e, Courses c where s.Sno = e.Sno and e.Course_
no = c.Course_no and Sno = X ;
```

#2/3 支持原生词（select\from\where\and\in）的大写和小写，以及支持投影视图中的

一个或多个属性输出。

```
Please enter SQL request:
SELECT s.Sno, s.Name FROM Student_Course where Sno = X
TRANSFORMED: select s.Sno,s.Name from Students s, SC e, Courses c where s.Sno = e.Sno and e.Course_no = c.Course_no and
Sno = X ;
```

```
Please enter SQL request:
select s.Sno from Student_Course where Sno = X
TRANSFORMED: select s.Sno from Students s, SC e, Courses c where s.Sno = e.Sno and e.Course_no = c.Course_no and Sno = X
;
```

#4 检查视图是否存在。

```
Please enter SQL request:
select s.Sno, s.Name from Stu_Cou where Sno = X
 The View Is Not Created.
```

#5 允许查询属性前不带基本表名（默认前提是视图创建时各基本表的属性名无重名）。

```
Please enter SQL request:
select Sno, Name from Student_Course where Sno = X
TRANSFORMED: select s.Sno,s.Name from Students s, SC e, Courses c where s.Sno = e.Sno and e.Course_no = c.Course_no and
Sno = X ;
```

#6 检查查询属性是否存在。

```
Please enter SQL request:
select S.Serror, S.Name from Student_Course where Sno = X
Illegal attributes input.
```

#7 输入"#"退出程序。

```
Please enter SQL request:
#

_____
Process exited after 491.9 seconds with return value 0
请按任意键继续. . .
```