中山大学数据科学与计算机学院 移动信息工程专业-数据库系统 本科生实验报告

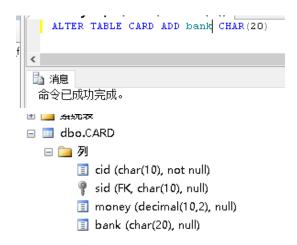
(2017-2018 学年秋季学期)

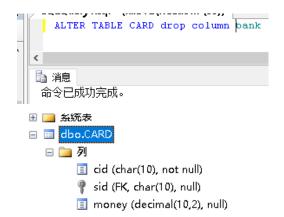
课程名称:数据库系统实验

教学班级	15M1	专业 (方向)	移动互联网
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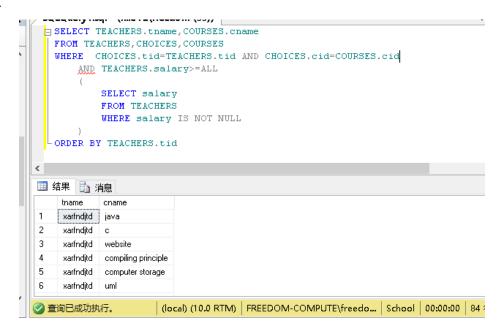
一、 实验内容

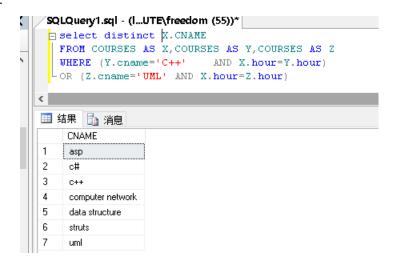
1.



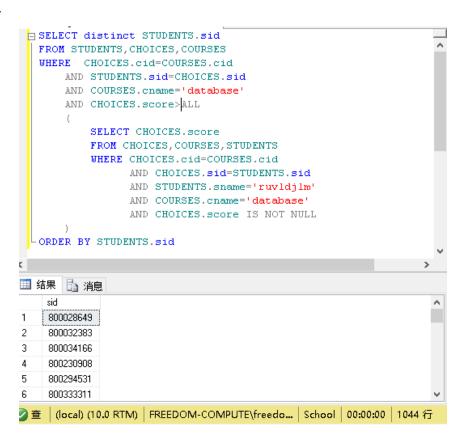


4.





```
SQLQuery1.sql - (l...UTE\freedom (55))*
 ⊟ SELECT SID
   FROM CHOICES
   WHERE CHOICES.cid=
       SELECT COURSES.cid
       FROM COURSES
       WHERE COURSES.cname='C++'
   EXCEPT
   SELECT SID
   FROM CHOICES
   WHERE CHOICES.cid=
       SELECT COURSES.cid
       FROM COURSES
       WHERE COURSES.cname='database'
<
🎹 结果 🛅 消息
    800042626
1
2
     800047787
3
     800406681
4
     800962451
5
    801817783
                     (local) (10.0 RTM) | FREEDOM-COMPUTE\freedo... | School | 00:00:00 | 5596 行
☑ 查询已成功执行。
```



```
SELECT distinct STUDENTS.sname
   FROM STUDENTS, CHOICES, COURSES
   WHERE CHOICES.cid=COURSES.cid
       AND STUDENTS.sid=CHOICES.sid
       AND COURSES.cname='database'
       AND CHOICES.score>=ALL
           SELECT CHOICES.score
           FROM CHOICES, COURSES, STUDENTS
           WHERE CHOICES.cid=COURSES.cid
                  AND CHOICES.sid=STUDENTS.sid
                  AND COURSES.cname='database'
                  AND CHOICES.score IS NOT NULL
       )
🎹 结果 🛅 消息
    sname
    alkpzeiuf
    asvhw
     awswkyi
    bedsd
    hhizsawm
    bnyuussuw
    bqdstso
    bttdhwsbq
☑ 查询已成功执行。
                          (local) (10.0 RTM) FREEDOM-COMPUTE\freedo... | School | 00:00:02 | 112 行
```





12.



13.



14.

答:不可以对 VIEW_SC 插入新数据。因为这是多表引用的视图,插入新数据会影响多个表,所以不可以插入新数据。

```
| create rule R1 as @value>0 go exec sp_bindrule R1, "CARD.[money]" | |
```

```
16.
```

18.

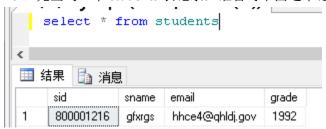
19.

需要先删除 CHOICES 中的记录,不然会因为外键冲突而终止,而不是因为触发器而终止

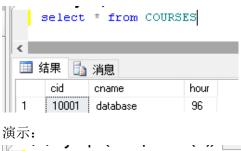
```
a delete from CHOICES
where sid='800015960'
delete from STUDENTS
where sid='800015960'

(1 行受影响)
不能删除编号是800015960的记录
消息 3609,级别 16,状态 1,第 3 行
事务在触发器中结束。批处理已中止。
```

20.、先查询一个 students 表记录,准备对下面这个记录修改



再查询一个 course 记录,准备插入一个跟下面这条记录冲突的新纪录以造成事务失败



```
| set XACT_ABORT ON | begin tran update_stu | update students | set sname='haha' | where sid='800001216' | begin tran insert_courses | insert into COURSES | values('10001','database2',96) | commit tran insert_courses | commit tran update_stu | c
```

重新查询 students 表记录发现该记录没有被更改,说明事务回滚了

