1.创建存储过程proc1,输入某个同学的学号,统计该同学的姓名和平均分执行此存储过程

create procedure proc1(@sNo char(10))

as

select a.studentno,studentname,AVG(score)

from Student a,Score b

where a.studentNo=b.studentNo

and a.studentNo=@sNo

group by a.studentNo,studentName

2.创建存储过程proc2,输入某同学的学号,使用游标统计该同学的平均分.

并返回平均分,同时显示该同学的姓名,课程名称和选课成绩,执行此存储过程.

create procedure proc2(@sNo char(10),@avg numeric(10,5)output)

as

begin

declare @sName varchar(10),@cName varchar(10)

declare @score tinyint,@sum int,@count tinyint

select @sum=0,@count=0

declare curScore cursor for

select b.studentname,coursename,Score

from Score a,Student b, Course c

where b.studentNo=@sNo

and a.studentNo=b.studentNo

and a.courseNo=c.courseNo

open curScore

fetch curscore into @sName,@cName,@score

while(@@FETCH\_STATUS=0)

begin

select @sName,@cName,@score

set @sum=@sum+@score

set @count=@count+1

fetch curScore into @sName,@cName,@score

end

close curScore

deallocate curScore

if @count=0

select @avg=0

else select @avg=@sum/@count

end

3.创建存储过程proc3,输入某学院名称,统计该学院每个班级同学的选课

信息,返回班级编号,班级名称,课程名称,课程选课人数和课程平均分,执行此存储过程.

create procedure proc3(@institute varchar(20))

as begin

declare @className varchar(10),@courseName varchar(10)

declare @classNo char(10),@count tinyint,@avg numeric(5,1)

create table #mytemp(

classNo char(10),

className varchar(10),

courseName varchar(10),

classCount tinyint,

classAvg numeric(5,1)

)

declare curClass cursor for

select classNo,className

from Class

where institute=@institute

open curClass

fetch curClass into @classNo,@className

while(@@FETCH\_STATUS=0)

begin

declare curCourse cursor for

select courseName,COUNT(\*),AVG(score)

from Student a,Score b,Course c

where a.studentNo=b.studentNo

and b.courseNo=c.courseNo

and classNo=@classNo

group by courseName

open curCourse

fetch curCourse into @courseName,@count,@avg

while(@@FETCH\_STATUS=0)

begin

insert into #mytemp values(@classNo,@className,@count,@avg)

fetch curCourse into @courseName,@count,@avg

end

close curCourse

deallocate curCoures

fetch curClass into @classNo,@className

end

close curCourse

deallocate curClass

select \*from #mytemp

end select @classNo=classNo,@className=className

from Class where institute=@institute

4.创建触发器trigger2,如果对学生表进行了更新(插入,删除和修改)操作,

则自动修改班级表中的班级人数,假设一次仅允许更新一个学生记录,否则当作违反约束规则.

create trigger classIns

on Student for insert as

begin

declare @classNo char(10)

if(select COUNT(\*) from inserted)>1

rollback

else begin

select @classNo=classNo

from inserted

update Class set classNum=classNum+1

where classNo=@classNo

end end

create trigger classDel

on Student for delete

as begin

declare @classNo char(10)

if(select COUNT(\*) from deleted)>1

rollback

else begin

select @classNo=classNo

from deleted

update Class set classNum=classNum-1

where classNo=@classNo

end end

create trigger classUpt

on Student for update

as begin

declare @oldClassNo char(10),@newClassNo char(10)

if(select COUNT(\*) from deleted)>1

rollback

else begin

select @oldClassNo=classNo

from deleted

select @newClassNo=classNo

from inserted

update Class set classNum=classNum-1

where classNo=@oldClassNo

update Class set classNum=classNum+1

where classNo=@newClassNo

end end