数据库第十一次实验

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Task2

1

```sql
create table STUDENT (
    sno integer,
    sname char(10),
    ssex char(10),
    sage integer
);

create table COURSE (
    cno integer,
    cname char(10),
    credit dec(10,2)
);

create table ELECTIVE (
    sno integer,
    cno integer,
    grade integer
);
```

2

```sql
select * from STUDENT where sno = 10;

alter table STUDENT add primary key (sno);

create unique index ELECTIVE_index on ELECTIVE (sno,cno);

create view stu_grade as
    select STUDENT.sname,COURSE.cname,grade
    from ELECTIVE
    join STUDENT on ELECTIVE.sno = STUDENT.sno
    join COURSE on ELECTIVE.cno = COURSE.cno;
```

3

```
create function stu_greade_sum (
    s_sno int
)
returns int as $$
declare g_sum int;
begin
    select sum(grade) into g_sum from STUDENT join ELECTIVE on STUDENT.sno =
ELECTIVE.sno whereSTUDENT.sno = s_sno group by sno;
    return g_sum;
end;
$$ language plpgsql;
```

4

```
create function delete_elective()
returns trigger as $stu_delete_elective$
begin
    delete ELECTIVE where sno = old.sno;
end;
$stu_delete_elective$ language plpgsql;

create trigger stu_delete_elective
after delete on STUDENT
for each row execute procedure delete_elective();
```