create stud dept(sid,sname,dept) and perform group by functions

```
create table stud dept (
  sid int,
  sname varchar(255),
  dept varchar(255)
);
insert into stud dept (sid, sname, dept)
values
  (1, 'john', 'math'),
  (2, 'jane', 'math'),
  (3, 'mike', 'physics'),
  (4, 'alice', 'physics'),
  (5, 'bob', 'chemistry');
select dept, count(*) as num students
from stud dept
group by dept;
select sum(num students) as total students
from (
  select count(*) as num students
  from stud dept
  group by dept
) as student_counts;
select dept, count(*) as num students
from stud dept
group by dept
order by num students desc
limit 1; -- for max
select dept, count(*) as num students
from stud dept
group by dept
order by num students
limit 1; -- for min
select avg(num students) as avg students per dept
from (
  select count(*) as num students
  from stud dept
  group by dept
) as student counts;
```