quiz2

Consider the following relational schemas describing the information of students and clubs:

```
student( <u>sid,</u> name, age, gender, department)
club(<u>cid.</u> name, supervisor)
member( <u>sid. cid</u>, date)
```

Write the following queries in SQL:

1. Find the names of students from the CS department who is a member of the Dancing club.

```
select student.name
from student,club,member
where department = 'CS' and student.sid = member.sid and club.name = 'Dancing'
and club.cid = member.cid;
```

2.Find the names of students who is a member of all clubs supervised by JL SUN

```
select student.name
from student,club,member
where student.sid = member.sid and club.supervisor = 'JL SUN' and club.cid =
member.cid
group by student.sid,student.name
having count(*) = (select(*) from club where club.supervisor = 'JL SUN');
```

3. Find all clubs that has girls only.

4. For each department, find the percentage of the students who joins any clubs

```
select department,count(distinct member.sid)/count(distinct student.sid)
from student left outer join member on member.sid = student.sid
group by department;
```

5. Find the two students with the biggest age difference.