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# Query Optimization

## 13. Exercise, Winter 2006/2007

Due 2007-02-07

1. Consider the following SQL query:

```
select s.name, s.id
from   students s, faculty f
where  s.faculty=f.id and
       f.name="CS" and
       exists(select * from exams e
              where e.student=s.id)
order by s.name
```

Give all interesting orderings and functional dependencies. (3 Points)

2. Construct the corresponding FSM. (3 Points)
3. Modify one of the DP algorithms (e.g. DPsize) to handle distributed queries. (4 Points)