--3.1 a

select course\_id

from course

where dept\_name = "Comp. Sci." and credits = 3;

--3.1 b

select ID

from student natural join takes

where course\_id in(select course\_id from teaches natural join instructor where name = "Einstein");

--3.1 c

select max(salary)

from instructor;

--3.1 d

select name

from instructor

where salary in(select max(salary) from instructor);

--3.1 e

select course\_id, sec\_id, count(name)

from student natural join takes

where year = "2009" and semester = "Fall"

group by course\_id, sec\_id;

--3.1 f

select count(name) as cnt

from student natural join takes

where year = "2009" and semester = "Fall"

group by course\_id, sec\_id

order by cnt desc limit 1;

--3.1 g

select course\_id, sec\_id

from student natural join takes

where year = "2009" and semester = "Fall"

group by course\_id, sec\_id

order by count(name) desc limit 1

--3.9 a

select employee\_name, city

from employee natural join works

where company\_name = "First Bank Corporation";

--3.9 b

select employee\_name, street, city

from employee natural join works

where company\_name = "First Bank Corporation" and salary > 10000;

--3.9 c

select employee\_name

from employee natural join works

where company\_name != "First Bank Corporation"

--3.9 d

select employee\_name

from employee, (select max(salary) as mx from employee natural join works where company\_name = "Small Bank Corporation") as tmp

where salary > tmp.mx

--3.9 e

select distinct company\_name

from company, (select distinct city from company where company\_name = "Small Bank Corporation") as city\_at

where city in tmp;

--3.9 f

select company\_name

from works

group by company\_name

order by count(employee\_name) desc limit 1;

--3.9 g

select company\_name

from (select company\_name, avg(salary) as num from works group by company\_name) as tmp1, (select avg(salary) as std from works where company\_name = "First Bank Corporation") as tmp2

where tmp1.num > tmp2.std;