

Homework #4

3.10

a.

```
update employee
set city = 'Newtown'
where ID = '12345';
```

b.

```
update works as W
set W.salary = W.salary *
    (case
        when(W.salary <= 100000)
            then 1.1
        else 1.03
    end)
where W.ID in (select manager_id
               from manages)
and W.company_name = 'First Bank Corporation';
```

3.11

a.

```
select distinct S.ID, S.name
from student as S inner join takes on S.ID = takes.ID
                inner join course on course.course_id = takes.course_id
where course.dept_name = 'Comp.Sci.';
```

b.

```
select S.ID, S.name
from student as S
where not exists (select *
                  from takes
                  where takes.year < 2017
                        and S.ID = takes.ID);
```

c.

```
select max(salary)
from instructor
group by dept_name;
```

d.

