1. Find the names of all employees who work for First Bank Corporation

```
select employee-name
from works
where company-name = 'First Bank Corporation'
```

2. Find the names and cities of residence of all employees who work for First Bank Corporation.

```
select e.employee-name, city
from employee e, works w
where w.company-name = 'First Bank Corporation' and
w.employee-name = e.employee-name
```

Correct as e.city

3. Find the names, street address, and cities of residence of all employees who work for First Bank Corporation and earn more than \$10,000

```
select *
from employee
where employee-name in
   (select employee-name
   from works
   where company-name = 'First Bank Corporation' and salary ¿ 10000)
```

Correction: salary>10000

4. Find all employees in the database who live in the same cities as the companies for which they work.

```
select e.employee-name
from employee e, works w, company c
where e.employee-name = w.employee-name and e.city = c.city and
w.company -name = c.company -name
```

5. Find all employees in the database who live in the same cities and on the

same streets as do their managers

```
select P.employee-name
from employee P, employee R, manages M
where P.employee-name = M.employee-name and
M.manager-name = R.employee-name and
P.street = R.street and P.city = R.city
```

6. Find all employees in the database who do not work for First Bank Corporation.

```
select employee-name
from works
where company-name ≠ 'First Bank Corporation'
```

7. Find all employees in the database who earn more than every employee of Small Bank Corporation.

```
select employee-name
from works
where salary > all
    (select salary
    from works
    where company-name = 'Small Bank Corporation')
```

Or

Select employee-name

From works

Where salary>(select max(salary) from company-name='Small Bank Corporation')

8. Assume that the companies may be located in several cities. Find all companies located in every city in which Small Bank Corporation is located

9. Find all employees who earn more than the average salary of all employees

of their company

10. Find the company that has the most employees

```
select company-name
from works
group by company-name
having count (distinct employee-name) >= all
    (select count (distinct employee-name)
    from works
    group by company-name)
```

11. Find the company that has the smallest payroll

```
from works
group by company-name
having avg (salary) > (select avg (salary)
from works
where company-name = 'First Bank Corporation')
```

12. Modify the database so that Jones now lives in Newtown.

```
update employee
set city = 'Newton'
where person-name = 'Jones'
```

13. Give all employees of First Bank Corporation a 10 percent raise.

update works
set salary = salary * 1.1
where company-name = 'First Bank Corporation'

14 Give all managers of First Bank Corporation a 10 percent raise.

15. Delete all tuples in the works relation for employees of Small Bank Corporation.

delete works
where company-name = 'Small Bank Corporation'