$$t1 \leftarrow \prod_{person_name} (\sigma_{company_name} = \text{`First Bank Corporation''}(works))$$
1. $result = \prod_{person_name, city} (t1 \infty employee)$
2.
$$(\prod_{person_name} (\sigma_{company_name} = \text{`First Bank Corporation''} \land salary > 100000}(works))) \infty employee$$
3.
$$\prod_{person_name} ((works \infty company) \infty employee)$$
4,
$$company \div (\prod_{city} (\sigma_{company_name} = \text{`Small Bank Corporation''}(company)))$$
5,
$$t1 \leftarrow_{company} G_{avg(salary) \ as \ salary} (works)$$

$$result = \prod_{t1.company_name} (\sigma_{t1.salary > t2.salary} (t1 \times \rho_{t2(salary)} (\prod_{salary} (\sigma_{company_name} = \text{`First Bank Corporation''}(t1)))))$$