

Lab work 1

1. employee (person-name, street, city)
 works (person-name, company-name, salary)
 company (company-name, city)

• $\Pi_{ID, name} (\sigma_{company-name = "Big Bank"}(works))$

• $\Pi_{ID, name, city} (\sigma_{works.company-name = company-name}(works \times company))$

• $\Pi_{ID, name, street, city} (\sigma_{person-name(employee) = works.person-name \wedge salary > 10000}(works \times employee))$

• $\Pi_{ID, name} (\sigma_{employee.person-name = works.person-name \wedge works.company-name = company-name \wedge employee.city = company.city}(employee \times works \times company))$

2. $\Pi_{ID, name} (\sigma_{company-name \neq "Big Bank"}(works))$

• $\Pi_{ID, name} ($

4. No primary keys, since there can be two or more employees who have same names, street and city of residence