

1. employee(person_name, street, city), works(person_name, company_name, salary), company(company_name, city)
 - a. Π id, person_name($\sigma_{\text{company_name} = \text{"BigBank"}}$ (works));
 - b. Π id, person_name, city($\sigma_{\text{company_name} = \text{"BigBank"}}$ (works x employee)));
 - c. Π id, person_name, street, city($\sigma_{\text{company_name} = \text{"BigBank"}}$ and salary > "10000" (works x employee))
 - d. Π id, person_name($\sigma_{\text{company.city} = \text{employee.city}}$ (company x employee)));
2. Solutions:
 - a. Π id, person_name($\sigma_{\text{company_name} \neq \text{"BigBank"}}$ (works));
3. Removing id attribute, inserting duplicates;
4. Id and street