

Lab 1

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$$1) * \prod_{ID, person_name} (\sigma_{company_name = 'BigBank'}(works))$$

$$* \prod_{ID, person_name, city} ((employee) \bowtie_{employee.ID = works.ID \wedge company_name = 'BigBank'} (works))$$

$$* \prod_{ID, person_name, street, city} ((employee) \bowtie_{employee.ID = works.ID \wedge company_name = 'BigBank' \wedge salary > 10000\$} (works))$$

$$* \prod_{ID, person_name} (\sigma_{works.company_name = company.company_name \wedge employee.city = company.city} (employee \times works \times company))$$

$$2) * \prod_{ID, person_name} (\sigma_{company_name \neq 'BigBank'}(works))$$

$$* \prod_{ID, person_name} (\sigma_{salary > } (works))$$