

Lab work - 1.

- 1.
- $\Pi_{id, name} (\sigma_{person_name = "Bigbank"}(Works))$
 - $\Pi_{id, name, city} (\sigma_{person_name = "Bigbank"}(Works))$
 - $\Pi_{id, name, street_address, city} (\sigma_{person_name = "Bigbank" \wedge salary > 10000} (works \bowtie employee))$
 - $\Pi_{id, name} (\sigma_{city = company}(company))$
or
 $\Pi_{person_name} (employee \bowtie works \bowtie company)$

2.

2. • $\Pi_{\text{person_name}} (\sigma_{\text{company_name} \neq \text{"Bigbank"}}(\text{works}))$

or $\Pi_{\text{id, name}} (\sigma_{\text{person_name} \neq \text{"Bigbank"}}(\text{works}))$

• ~~$\Pi_{\text{person_name}}(\text{works}) - (\Pi_{\text{works}})$~~

~~$\Pi_{\text{id, name}}(\text{works})$~~

• $\Pi_{\text{person_name}}(\text{works}) - (\Pi_{\text{works.person_name}}(\text{works}) \bowtie (\text{works.salary, works.company_name} = \text{"Bigbank"}) \bowtie \text{works}(\text{works}))$

3. Inserting a tuple:

(10111, Ostrom, Economics, 140,000)

Deleting the tuple:

(Biogoly, Watson, 90000)

4. person - name.