Lab Work 1

№ 1

① employee (ID, person_name, street, city)
works (ID, company-name, salary)
company (company-name, city)

$\Pi_{ID, person\_name}$ ($\sigma_{company\_name = "BigBank"}$ (employee $\bowtie$ works))

② $\Pi_{ID, person\_name, city}$ ($\sigma_{company\_name = "BigBank"}$ (employee $\bowtie$ works))

③ $\Pi_{ID, person\_name, street, city}$ ($\sigma_{company\_name = "BigBank" \wedge salary > 10000}$ (employee $\bowtie$ works))

④ $\Pi_{ID, person\_name}$ ($\sigma_{emloyee.city = company.city}$ (E $\bowtie$ W $\bowtie$ C))

№ 2.

① $\Pi_{ID, person\_name}$ ($\sigma_{company\_name \neq "BigBank}$ (employee $\bowtie$ works))

② $\Pi_{ID, person\_name}$ (σ_{salary} (E $\bowtie$ W $\bowtie$ C))

№ 3. SHOULD BE BIGGEST AND SAME SALARY
SHOWN FEW EMPLOYEES THAT HAVE

In the instructor table if the department

table does not contain the "A" department can cause a violation of the foreign key constraint:

R ("Name", "ID", "A")

№4.

"person_name", "company_name"

Because they are unique resourse for different emloyees / company.