Assignment 2

employee (ID, person\_name, street, city)

works (ID, company\_name, salary)

company (company\_name, city)

1 Figure

* П employee.person\_name, employee.id(employee ⋈ (σ works.company\_name = "BigBank"(works))
* П employee.person\_name, employee.id, employee.city(employee ⋈ (σ works.company\_name = 'BigBank'(works))
* П employee.id, employee.person\_name, employee.street, employee.city(σ works.company\_name = "BigBank" " ∧ works.salary > $10000 (employee × works))
* П employee.id, employee.person\_name(employee ⋈ works ⋈ company) ))

2

* П employee.person\_name, employee.id(employee ⋈ works.company\_name ≠ "BigBank"(employee × works))
* п employee.person\_name (works) − (п works.person\_name (works ⋈ (works.salary ≤works2.salary ∧ works2.company = 'BigBank')

3

Tuple:

Inserting a tuple: (10111, Ostrom, Economics, 110000)

Deleting the tuple:(Biology, Watson, 90000)

Instructor table:

into the instructor table, where the department table does not have the department Economics, would violate the foreign key constant .

from the department table, where at least one student or instructor tuple has dept\_name as Biology, would violate the foreign key constraint .

employee( person\_name, street, city)

works(person\_name, company\_name, salary)

company(company\_name, city)

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employee( person\_name, street, city)

works(person\_name, company\_name, salary)

company(company\_name, city)