Database Laboratory work # 1

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Task 1

П id,person\_name (σ company\_name = “BigBank”(works))

П id,person\_name,person\_city ( σcompany\_name = “BigBank”(works x employee))

П id,person\_name,street,person\_city ( σcompany\_name = “BigBank” Λ salary > $10000(works x employee x company))

П id,person\_name ( σ employee\_city = company\_city (employee x company ))

Task 2

П id,person\_name ( σ company\_name ≠ “BigBank”(works x employee))

П id,person\_name ( σ salary = max(salary) (works x employee))

Task 3

Instructor(id, name, dept name, salary)

Department(dept\_name, building, budget)

Inserting a tuple:

(013524, Max, Mathematics, 225000)

to the instructor's table, where there is no department in the table

the Department of Mathematics, would violate the foreign key constraint.

Deleting a tuple:

(Geography, Sergey, 300000)

from the desk of the department, where at least one student or teacher

the tuple has a department name like biology, which would violate the foreign key constraint.

Task 4

employee (person name, street, city)

works (person name, company name, salary)

company (company name, city)