LAB_1

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- 1.1 Πid, person_name (company_name = "bigbank" (works))
- 1.2 ∏id, person_name, city (employee ⋈ employee.id = works.id works (company_name = "bigbank" (employee × works)))
- 1.3 ∏ id, person_name, street, city (employee ⋈ employee.id = works.id works (company_name = "bigbank" ∧ salary > 10000))
- 1.4 ∏ id, person_name (company.city = employee.city (employee ⋈ employee.id = works.id works ⋈ works.company_name = company.company_name company))
- 2.1 Π id, person_name ($^{\circ}$ company_name \neq "bigbank" (works))
- 2.2Π id, person_name (${}^{\circ}$ salary > AVG(salary)(works))
- 3 Try to insert a row with non-existing department to the instructor relation, This will cause a violation of the foreign-key constraint. If we try to delete some row from department relation (considering that there exists instructor in this department) this will also cause a violation of the foreign-key constraint.