First task

- 1.**π**ID, person name(**σ**company name="Big Bank" (works))
- 2. Tworks.ID, works.person_name,employee.city(Ocompany_name="Big Bank" (worksxemployee))
- 3. π works.ID, works.person_name,employee.street,employee.city(σ company_name="Big Bank" α \salary>10000 (works×employee))
- 4. π works.ID, works.person_name(σ company.city=employee.city (works×employee×company)

Second task

- 1.**π**ID, person name(**o**company name≠"Big Bank" (works))
- 2. **π**ID, person_name(**σ**salary≥average(salary) (works))

Third task

Inserting rows into instructor table, with unexisting department - example:physical education. Also field semester is any word but not Fall Spring Summer. Example - wintet. Or the same ID of two different students.

Fourth task

Employee(person_name,street,city) Primary key – person_name

Works(person_name,company_name,salary) Foreign key – person_name and company_name

Company(company_name,city) Primary key - company_name