

# Laboratory work 1

1)

1.  $\Pi_{ID, person\_name}(\sigma_{company\_name = \text{"BigBank"}}(work))$
2.  $\Pi_{ID, person\_name, person\_city}(\sigma_{company\_name = \text{"BigBank"}}(employee \times work))$
3.  $\Pi_{ID, person\_name, person\_street, person\_city}(\sigma_{company\_name = \text{"BigBank"} \wedge salary > 10,000}(employee \times work \times company))$
4.  $\Pi_{ID, person\_name}(\sigma_{company\_city = \sigma_{person\_city}}(employee \times company))$

2)

1.  $\Pi_{ID, person\_name}(\sigma_{company\_name \neq \text{"BigBank"}}(employee))$
2.  $\Pi_{ID, person\_name}(\sigma_{salary \neq \min(salary)}(employee))$

3) INSERT INTO department (dept\_name) VALUES("love ")

DELETE FROM department(dept\_name) WHERE(dept\_name = "love ")

4) ID -> Primary key (ID uniquely identifies instructors)

ID is a primary key , because it is unique