Laboratory work 1

1.Consider the employee database of figure below. Give an expression in the relational algebra to express each of the following queries:

employee(person\_name, street, city)

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

company(company\_name, city)

1)Find the ID and name of each employee who works for “BigBank”.

*2)* Find the ID, name, and city of residence of each employee who works for “BigBank”.

*(employee works))*

3) Find the ID, name, street address, and city of residence of each employee who works for “BigBank” and earns more than $10000.

*(employee (works)))*

4) Find the ID and name of each employee in this database who lives in the same city as the company for which she or he works.

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2.1)

3)1)

Inserting (1111, “Dimashka”, “some\_dept\_name”, 100000) if “some\_dept\_name” wont in department table it will give violation

Deleting (“Dimashka”, “some\_dept\_name”, 1000) if “some\_dept\_name” wont primary key in the department it will give violation

4)

Employee -> id, person\_name

Works ->id, person\_name

Company->id, company\_name