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)

Find the ID and name of each employee who does not work for “BigBank”

2)

Find the ID and name of each employee who earns at least as much as every employee in the database.

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

Company->id, company\_name