

Lab work 1 – Rymbayeva Anelya

1) Task 1

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

```
SELECT ID, person_name ( WHERE company_name = “BigBank”(employee  
JOIN employee.person_name = works.person_name works))
```

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

```
SELECT ID, person_name, city ( WHERE company_name = “BigBank”( employee  
JOIN employee.person_name = works.person_name works))
```

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

```
SELECT ID, person_name,street, city ( WHERE company_name = “BigBank” ^ salary  
> 10000( employee JOIN employee.person_name = works.person_name  
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.

```
SELECT ID, person_name( WHERE employee.city = company.city(( employee  
JOIN employee.person_name = works.person_name works JOIN  
Works.company_name = company.company_name company))
```

2) Task 2

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

```
SELECT ID, person_name ( WHERE company_name ≠ “BigBank”(employee  
JOIN employee.person_name = works.person_name works))
```

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

```
SELECT ID, person_name ( WHERE salary >= avg(salary) (employee  
JOIN employee.person_name = works.person_name works))
```

3) Task 3

An example of inserting new values into a table will cause an violation if the user gives new values for nonexistent attributes in this table.

An example of deleting a value in a primary key in a table will cause an error, because other data is directly related to the primary key.

4) Task 4

In the database employee, there is only one appropriate primary key respectively, it is “ID” attribute.