

## Laboratory work #1

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### #1

- $\Pi_{id,name}(\sigma_{company\_name = \text{"BigBank"}}(works))$
- $\Pi_{id,name,city}(\sigma_{company\_name = \text{"BigBank"}}(employee \times works))$
- $\Pi_{id,name,street\ address,city}(\sigma_{company\_name = \text{"BigBank"} \wedge salary > 10000}(employee \times works \times company))$
- $\Pi_{id,name}(\sigma_{employee\_city = company\_city}(employee \times company))$

### #2

- $\Pi_{id,name}(\sigma_{company\_name = \text{"BigBank"}}(works))$
- $\Pi_{id,name}(\sigma_{salary = \max(salary)}(works))$

### #3

INSERT INTO department (dept\_name) VALUES ("Music");

DELETE FROM department(dept\_name) WHERE(dept\_name="Music");

### #4

Id is a primary key, because it is unique