Databases Laboratory work 1 Mairambaeva Dinara

1.

- 1) \prod ID, person_name (σ company_name = "Big Bank" (WOrks))
- 2) ΠID, person_name, city (σcompany_name = "Big Bank" (works x employee))
- 3) \(\pi_{ID, person_name, street, city} \) (\(\sigma_{company_name} = "Big Bank" \) \(\sigma_{salary} \) 10000\(\sigma_{company_name} = "Big Bank" \) \(\sigma_{company_name} \) \(\sigma_{company_name} = "Big Bank" \) \(\sigma_{company_name} \) \(\sigma_{company_name} = "Big Bank" \) \(\sigma_{company_name} = "Big
- 4) ∏ID, pname (**o**company_name = city (works x employee x company))

2.

- 1) ∏ID, person_name (**G**company_name ≠ "Big Bank" (WOrkS))
- 2) \prod ID, person_name (σ salary \geq MIN salary (works x employee))

3.

Insert: (Hawking, Physics, 200.000) into the instructor table, where the department table does not have the department Physics, would violate the foreign key constraint.

Delete: (Galileo, Astronomy, 145.000) from the department table where at least one student or instructor tuple has dept name as Astronomy, would violate the foreign key constraint.

4.

The primary key is company_name or ID.