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FIT, IS, 2year

employee(person_name, street, city);

works(person_name,company_name, salary);

company(company_name,city);

Ex1

1)$\Pi_{id,\ person\_name}$ ($\sigma_{works.company\_name\ =\ \text{“BigBank”}}$ (works))

2)$\Pi_{id,\ person\_name,city}$ ($_{works.company\_name\ =\ \text{“BigBank”}}$ (employee$\bowtie$ works))

3)$\Pi_{id,\ person\_name,address,city}$ ($_{company\_name\ =\ \text{“BigBank”}\ v(and)\ salary\ >=\ \$10000}$ (employee x works))

4)$\Pi_{id,\ person\_name}$ ($_{company\_name\ =\ city}$ (employee $\bowtie$ works $\bowtie$ company))

Ex2

1)$\Pi_{id,\ person\_name}$ ($_{company\_name\ =\neg\ \text{“BigBank”}}$ (works))

2)$\Pi_{id,\ person\_name}$(works) - $_{works.salary\ <=\ works2.salary}$ (works))

Ex3

Inserting tuple: (001, Darik,Physics,730000);

into the instructor table, where the department table does not have the department Physics, would violate the foreign key constraint.

Deleting tuple: (Math, Biba, 90000);

from the department table, where at least one student or instructor tuple has dept name as Math, would violate the foreign key constrait

Ex4

Primary keys:

Person_name, company_name;

Signs:
σ
x
ρ
∪
Π

v

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