

שם הקורס | תרגיל 2 (67506)

שי תם ונגה קריל

5 באפריל 2022

(1)

$\pi_{name}(\sigma_{institution='Hebrew University of Jerusalem'}authors)$

(2)

$\pi_{name,institution}(authors \bowtie_{country='IL'} institutions)$

(3)

$\rho_R(\sigma_{adjustedcount \geq 2}authors \bowtie_{country='IL'} institutions)$

$\pi_{name,institution}(R \bowtie_{subarea='db' \vee area='ai'} conferences)$

(4)

.N

$$\rho_R \left(\pi_{name, subarea} \left(\sigma_{institution='Hebrew \ University \ of \ Jerusalem'} authors \bowtie conferences \right) \right)$$

$$\rho_S(name_1, subarea_1, name_2, subarea_2) (R \times R)$$

$$\pi_{name_1} \left(\sigma_{name_1=name_2 \wedge subarea_1='ai' \wedge subarea_2='ml'} S \right)$$

.N

$$\rho_R \left(\pi_{name, subarea, year} \left(\sigma_{institution='Hebrew \ University \ of \ Jerusalem'} authors \bowtie conferences \right) \right)$$

$$\rho_S(name_1, subarea_1, year_1, name_2, subarea_2, year_2) (R \times R)$$

$$\pi_{year_1, name_1} \left(\sigma_{name_1=name_2 \wedge year_1=year_2 \wedge subarea_1='vision' \wedge subarea_2='ml'} S \right)$$

(5)

$$\rho_R \left(\pi_{name} \left(authors \bowtie_{area='systems' \wedge year < 1990} conferences \right) \right)$$

$$\rho_S(\pi_{name}(authors \bowtie_{area \neq 'systems' \vee year \geq 1990} conferences))$$

$$(R - S)$$

(6)

$$\rho_R(\pi_{conference}(\sigma_{name='Noam Nisan'}(authors \bowtie_{area='ai'} conferences)))$$

$$\pi_{name}(\pi_{name,conference}authors \div \pi_{conference}R)$$

(7)

$$\rho_{R_1(name_1, conference_1, year_1, count_1,)}(\sigma_{institution='Hebrew University of Jerusalem'}authors)$$

$$\rho_{R_2(name_2, conference_2, year_2, count_2,)}(R_1)$$

$$\rho_S(\sigma_{name_1 \neq name_2 \wedge year_1 = year_2 \wedge conference_1 = conference_2 = 'fcos' \wedge count_1 < count_2} R_1 \times R_2)$$

$$\sigma_{year \geq 2000 \wedge year \leq 2020}(\pi_{year, name}authors - \pi_{year, name}S)$$