(67506) שם הקורס | תרגיל 2

שי תם ונגה קריל

3 באפריל 2022

(1)

$$\pi_{name} \left(\sigma_{institution="Hebrew\ University"} authors \right)$$

(2)

$$\pi_{name,institution} \left(authors \bowtie_{country="Israel"} institutions \right)$$

(3)

$$\pi_{name,institution} \left(\sigma_{adjustedcount>1} authors \bowtie_{country="Israel"} institutions \bowtie_{subarea="db"\ \vee\ area="ai"} conference \right)$$

(4)

א.

$$\rho_R \left(\pi_{name,subarea} \left(authors \bowtie_{institution="Hebrew\ University"} conference \right) \right)$$

$$\rho_{S(name_1,subarea_1,name_2,subarea_2)}\left(R \times R\right)$$

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

ב.

$$\rho_R\left(\pi_{name,subarea,year}\left(authors \bowtie_{institution="Hebrew\ University"} conference\right)\right)$$

$$\rho_{S(name_1,subarea_1,year_1,name_2,subarea_2,year_2)}\left(R \times R\right)$$

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

(5)

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

$$\rho_S\big(\pi_{name}\left(authors \bowtie_{area\neq"systems" \vee year>="1990"} conference\right)\big)$$

$$(R - S)$$

(6)

$$\rho_R \left(\pi_{conference} \left(\sigma_{name="noam\ nissan" \wedge area="ai"} authors \right) \right)$$

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

(7)

$$\rho_{R(name_1,conference_1,year_1,count_1,)} (authors)$$

$$\rho_S \left(\sigma_{name \neq name_1 \wedge year=year_1 \wedge conference=conference_1="fcos" \wedge count<count_1} authors \times R \right)$$

$$\sigma_{year>=2000 \wedge year<=2020} \left(\pi_{year,name} authors - \pi_{name,year} S \right)$$