Databases Autumn 2025

Hand-In Exercise 1

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Total Points	

Task	Points

Databases

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This template showcases various useful latex commands and setups. Remove this for your actual hand-in.

Task 1

Relational algebra is a treat with LaTeX, as can be seen in Equation (1):

$$\pi\left[Attribute1, Attribute2\right]\left(\sigma\left[Attribute = Something\right]\left(Entity1\right) \bowtie Entity2\right) \tag{1}$$

Task 2

(a) Person on Name:

$$\sigma\left[Name =' ChristopherNolan'\right]\left(Person\right) \tag{2}$$

Activity on SceneAuthor:

$$\sigma\left[Activity =' director'\right]\left(SceneAuthor\right) \tag{3}$$

Add join on both:

$$\pi\left[MovieID, SceneID\right]\left(\sigma\left[Name =' ChristopherNolan' \wedge Activity =' director'\right]\left(Person \bowtie SceneAuthor\right)\right) \tag{4}$$