CMD-C1 Scientific database programming

Person in charge and Representative	tba
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Semester	4
Topic cluster	Computational method development
Duration/Credit	6 weeks, 1.5 per week.
Time	The exact date incl. time will be announced separately
Place	Online. Dial-in data are sent separately
Prerequisite for the lecture/course	Introduction to Scientific Databases Biomedical Data Management
Aim of the lecture/course	This course aims at practicing with exercises and projects the concepts learned in the lectures of Introduction to Scientific Databases and Biomedical Data Management. The following objectives will be achieved: • Design scientific databases bases using existing data models (e.g., the Entity-Relationship and the relational) and following existing methodologies for modeling data. • Implement scientific databases in diverse database management systems (e.g., relational and graph database). • Implement declarative languages (e.g., SQL), queries against scientific databases. • Implement using procedural languages applications over scientific databases