Knowledge Bases and Databases

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Structure of the course

1. First-order queries
   1. First-order logic
   2. First-order query evaluation
   3. Conjunctive queries
2. Ontology-based access to information
   1. Introduction to ontologies
   2. Description Logics as ontology formalisms
   3. Reasoning in lightweight Description Logics
   4. Accessing data through ontologies
3. Data integration
   1. Introduction to data integration
   2. Query answering in the absence of constraints
   3. Query answering in the presence of constraints

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