

Query languages

Course description

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Course overview

Level	Graduate level course
Instructor	Patrick Marcel Patrick.Marcel@univ-tours.fr
Prerequisite	Course on basics of relational database languages
Prerequisite	Course on database modelling and design
Postrequisite	Course on database implementation

Goal and topics

Objective Study some properties of relational query languages

Topics

- relational algebra for bags
- negation and recursion
- logical properties and static analysis
- views
- implementation of the relational operators
- expressive power

Grading

Weekly workload	6-8 hours
Including	4 hours of lecture and assignment 2-4 hours of personal work
Personal work	Reading, lab, project
Grading	final exam: 70% homework/project: 30%

Reading

Garcia-Molina, Ullman, Widom, **database system: the complete book**

Abiteboul, Hull, Vianu, **foundations of databases**