

RELATIONAL DATABASES

0. Introduction to the course

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Master 1 - AI
2022/23: first semester

Book of the course

The course is based on the book *Database Systems - The Complete Book*, by Hector Garcia-Molina, Jeffrey D. Ullman and Jennifer Widom, published by Pearson.

Tentative content of the course

- 1 The worlds of database systems
- 2 The relational model of data
- 3 Design theory for relational databases
- 4 High-level database models
- 5 The database language SQL
- 6 Constraints and triggers
- 7 Views and indexes

Short presentation of the course

Content: This course presents mid-level topics in relational databases, like normal forms, relational algebra, conversion to entity/relationship model or UML.

Acquired skills: Students will be able to conceive good designed relational databases, use high-level database models and deal easily with complex SQL requests.

Final mark of the course

S1: $CC * 50\% + ETP * 50\%$

S2: $EO * 100\%$

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The end.