

Data Management and Analysis

Course Presentation

Giuseppe Perelli

Applied Computer Science and Artificial Intelligence
Academic Year 2024-25



- ▷ Assistant Professor
- ▷ Ph.D. in Computer Science (Background in Mathematics)
- ▷ main research interests:
 - Formal Methods for Artificial Intelligence
 - Logics and Games for Multi-Agent Systems
 - Synthesis and Rational Synthesis

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-  [Course Website](#)
-  [Google Classroom](#)

Timetable

- Mondays: from 14:00 to 17:00
Aula De Lollis 3
- Thursdays: from 16:00 to 18:00
Aula De Lollis 3

Office hours

By appointment

perelli@di.uniroma1.it

I have a question about the course. Should I post on classroom or send an email?

- | | |
|--|----------------------|
| ▷ Is this relevant to the rest of the class? | Post it on classroom |
| ▷ Does it regard me only? | Send an email |

Examples:

- | | |
|---|-----------|
| ▷ I think there is a typo in the slides | Classroom |
| ▷ I need a meeting to better understand third normal form | Email |

Email guidelines

- ▷ Use your Sapienza account
- ▷ Mention the class in the subject
- ▷ Sign with name and last name at the end (ID not necessary but appreciated)

- ▷ book:
 - J. D. Ullman: [Principles of Database & Knowledge-Base Systems, Vol. 1: Classical Database Systems](#)
- ▷ other readings:
 - Lemahieu, W., vanden Broucke, S., & Baesens, B.
[Principles of Database Management: The Practical Guide to Storing, Managing and Analyzing Big and Small Data.](#)
 - Abraham Silberschatz, Henry F. Korth, S. Sudarshan.
[Database System Concepts.](#)
 - P. Atzeni, S. Ceri, S. Paraboschi, R. Torlone.
[Database Systems - Concepts, Languages and Architectures.](#)
- ▷ course webpage



- ▷ **winter:** 2 dates in January and February, 1 "extra" date in April (only for repeating students, workers, and other categories)
- ▷ **summer:** 2 dates in June and July
- ▷ **autumn:** 1 "regular" date in September, 1 "extra" date in October (same as above)

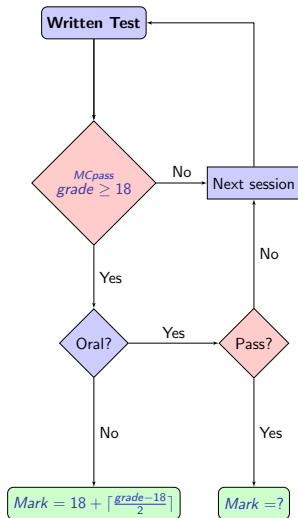


- ▷ Relational Algebra
- ▷ Relational Theory
- ▷ Physical organization
- ▷ (Concurrency)

- ▷ written test (about 2.5 hours) with:
 - screening (multiple-choice) questions;
 - exercises on:
 - Relational Algebra
 - Relational Theory
 - Physical Organization

- ▷ written test is **mandatory**, oral test is **optional**:
 - Definitions and basics on Relational Theory
 - **Proofs** of theorems in Relational Theory
 - Physical organization
 - (Concurrency)

Note: written tests **cannot** be carried over in future exam session



Mark	Grade
18	18
19	19
20	19
21	20
22	20
23	21
24	21
25	22
26	22
27	23
28	23
29	24
30	24