


Introduction to Databases




Data Base and Data Mining Group of Politecnico di Torino

Tania Cerquitelli


AA. 2018-2019

1



Teacher

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- Office hours: by appointment



2

2




Organization of the course

- Lesson start date: March 5th 2019
- Lesson end date: June 12th 2019
- Room and schedule time for lessons and practices

Date	Slot time	Room
Tuesday	11:30am – 2:30pm	2D
Wednesday	11:30am - 2:30pm	1T
Tuesday ¹	2:30pm - 4:00pm	LabInf
Tuesday ¹	4:00pm - 5:30pm	LabInf


 ¹ Start date will be announced 3

3




Objectives of the course

- The study of the relational data model
- The study of query languages for relational databases
 - Relational algebra, a procedural language
 - SQL language, with declarative and procedural features, for queries and updates
- The study of database design methodologies
- The development of web-based applications for database querying and management


 4

4




Exam policy

- The exam consists of a compulsory written part (time slot: 2 hours)
 - 3 multiple choice theory questions
 - 1 exercise on relational algebra
 - 2 exercises on SQL language
 - 1 exercise on database design
 - Entity-relationship model
 - Logical schema
 - Referential integrity constraints




5

5




Homework

- 4 homeworks to be delivered during the course
 - The first three homework exercise, delivered by the deadline, gives 0.5/30
 - The last homework exercise, delivered by the deadline, gives 1/30
- The points on the homework exercises will be valid until the exam session of January 2020 (included)




6

6




Homework discussion

- Students who have delivered the homework exercises should bring the documentation with them at the written exam
- During each written exam, we will notify the names of the students (among those attending the written exam) involved in the discussion of the homework exercises
- The homework exercises will be checked with these students immediately after the written exam




7

7




Materials

- Course web site
 - <http://dbdmg.polito.it/wordpress/teaching/databases/>
 - Set of slides used in class
 - Texts and solutions of the exercises presented in class
 - Texts and materials useful for laboratory exercises/practices




8

8



Database book

- Database Systems - Concepts, Languages and Architectures Paolo Atzeni, Stefano Ceri, Stefano Paraboschi and Riccardo Torlone McGraw-Hill Book Company, ISBN 0-07-709500-6
- A free PDF file is available here <http://dbbook.dia.uniroma3.it/>



9

9