

**Introduction to Databases**  
**Politecnico di Torino**  
**Exam rules A.Y. 2016/2017**

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The exam is written.

- Only students that have registered for the exam through the didactic portal will be admitted for the written part
- Students must carry an identification document to be shown upon request.
- The exam lasts 2 hours.
- Books and personal notes (hard copy) may be used. Electronic devices (PCs, laptops, mobile phones, ...) are not allowed.
- **Remark:** Students who have done the homework exercises should bring the documentation with them at the written exam

Structure of the exam paper

- Base part
  - 1 exercise on relational algebra (max. 4/30)
  - 1 exercise on basic SQL (max. 5/30)
  - Design of E-R diagram + logical relational schema (max. 12/30)
- Extended part (valid only if >14 points have been obtained on the base part)
  - 3 theoretical questions (1/30 each)
  - 1 exercise on advanced SQL (max. 6/30)
  - referential integrity constraints (max. 1/30)

Topics for the theoretical questions (only 1 correct answer for each question, no penalties for incorrect answers)

- Theory of the relational model, management of integrity constraints, management of views, management of transactions, access control, SQL for applications (JDBC)

Evaluation of homework assignments

- 4 homework assignments, to be delivered by the deadlines published on the course website:
  - TEAM A (Students enrolled in the 2nd year of the degree program who are attending the 8-credits course)
    - The first three homework assignments: 0.5/30 each.
    - The homework assignment no. 4: 1/30
  - TEAM B (Students enrolled in the 3rd year of the degree program who are attending the 6-credits course)
    - All homework assignments: 0.5/30 each.
- The points obtained from the evaluation of homework assignments are valid until the January 2017 exam session (included).
- *Homework discussion:* during each written exam, we will notify the names of the students involved in the discussion of the homework exercises. The homework exercises will be checked with these students immediately after the written exam.

#### Final evaluation

- The exam is passed if a grade  $\geq 18/30$  is achieved on the written part.
- In case of a positive outcome, the final grade is obtained by summing the grade obtained on the written part and the evaluation of homework assignments.
- In case of a negative outcome, failure will be recorded.