



Database systems – A.Y. 2021-2022

Assignments

Assignment rules

- Two assignments:
 - Homework #1: max 0.5 points
 - Homework #2: max 1.5 points
- **Both assignments are optional**
- For each homework, students can obtain the corresponding points if
 - Homework is delivered by the deadline
 - Delivered homework is presented to teachers
- The final exam grade is defined by considering the evaluation of the written part, and, optionally, of the delivered homework. Points from homework are considered only if the grade of the written part is 18 or above.

Assignments: Time Table

- May 15, 2022
 - Homework #1 is posted
- May 16, 2022
 - students notify group composition for Homework #2 (send email to silvia.chiusano@polito.it)
- May 18, 2022
 - A set of possible “Application requirements” for Homework #2 are posted
- May 19, 2022
 - Groups notify their preferences on proposed “Application requirements” for Homework #2 (send email to silvia.chiusano@polito.it)
- May 20, 2022
 - An “Application requirements” is assigned to each group → groups can start working on Homework #2

Assignments: Summary Time Table

- June 5, 2022
 - Deadline for delivering Homework #1
- June 7, 2022
 - Deadline for delivering Homework #2
- Lessons on 16/5/2022, 23/5/2022, 30/5/2022, 7/6/2022 in room 5T – 10:00-11:30 are devoted to homework
 - Students can work on their homework and discuss questions/doubts with teachers



Homework #1

Homework #1: Max 0.5 points

- Individual Homework
- Objective of the homework: Solution of exercises on
 - SQL queries
 - Database design:
 - Conceptual design: Design the E-R diagram from application requirements
 - Logical design: Derive the relational logical schema from a E-R diagram

- **To be delivered by June 5, 2022**
 - Individual report with solutions of exercises in Homework text
 - The report must be uploaded as a pdf file on the Didactic portal, section «Material» («Materiale»)



Homework #2

Homework #2: Max 1.5 points

Application requirements

Step 1: Max 0.5 points

ER Diagram

Relational
model

Step 2: Max 0.5 points

Create tables
Record insertion
SQL queries

Step 3: Max 0.5 points

Data visualization using
Google Data Studio

Homework #2: Max 1.5 points

- Groups of 1 or 2 students
 - Students must notify the composition of the groups

- Initial «Application requirements»
 - A set of possible «application requirements» will be provided.
 - Each «application requirements» can be selected by at most one group
 - Alternatively, a group can propose the “application requirements” for the homework (to be then checked with teachers)

- **To be delivered by June 7, 2022**
 - Report including the results of Steps 1 and 2
 - uploaded as a pdf file on the Didactic portal, section «Material» («Materiale»)
 - Dashboard developed using Google Data studio
 - shared with gmail account: databases.sys@gmail.com