Glossary of questions:

As a mechanism to stimulate thinking about theoretical concepts explained and study, you can propose exam questions through the glossary. Some question proposed by you may (or may not) appear in the final exam. In any case, participating with good proposals will give you a bonification in the exam mark.

Deadline:

The glossary will be closed at the end of 20-12-2019.

Question creation flow:

1. The student chooses a concept from the list below (which is updated as new concepts are explained and old ones are used in questions) and he inserts a question related to it (by means of cut&Paste of the item) together with the corresponding answer. Do not use attachments. If it is impossible to submit the question without attachment, please create the question without the attachment and send it to the teacher by e-mail. Please note that concepts (that appear in the list preceded by a bullet) are grouped into categories (that appear in the list preceded by a number). Be sure to relate your question to a concept, not to a category.
   - Concepts may not be used more than once (if a question exists related to a given concept, new questions about the concept will be automatically rejected).
   - A student may not propose more than a question per week.
   - It must be possible to answer the question using the explanations given in class or the published materials to be studied at home.
   - It must be possible to answer the question without a calculator (the question may still require some simple calculation).
   - Writing SQL or knowing SQL syntax must not be required in the answer. SQL code may still appear in the question's statement.
   - When the answer is a choice from a set of options, the question must require some reasoning about the choice.
2. The teacher analyses the question
   1. If he founds it appropriate
      1. He modifies or refines it (if needed)
      2. He deletes the answer
      3. He accepts it
   2. If he founds it not appropriate
      1. He places a comment explaining why
      2. The student modifies or removes it
         - If three days after the comment of the teacher the student does not modify or removes it, the teacher may do it to avoid locking the concept for other students.

Answering a question:

A student (not the question's author), may add comments containing a possible answer (that is NOT going to be validated by the teacher) or corrections to answers coming from other students. If many answers are provided

for the same questions, they all must be original (not repeated) and contribute somehow to the solution or understanding of the problem.

Rules to achieve extra points in the exam

- Each student may enter only one question for each topic (i.e., category).
- Once the question is accepted, only the teacher can modify it.
- To obtain the top bonification, you must enter 5 questions of different topics (i.e., categories) and contribute comments to 5 questions of different topics (i.e., categories). Moreover:
    - It should NOT be possible to answer the question from memory
        - neither paraphrasing teacher's explanations in class
        - nor performing cut&paste of the slides and materials.
    - Questions similar to lab exercises should be avoided.
- Periodically, information about the number of questions and comments accepted from each student will be published.

Categories and available concepts list:

- Definitions
    - Operational and decisional systems
    - B.I. Cycle
    - Information Systems lifecycle
    - Design stages of an operational relational database
- Relational translation - 1
- Relational translation - 2
- Normalitzation
- Deadlocks and integrity constraints
- Views
- Materialized views. Precalculation
- Correctness
- Access structures
- Syntactic and semantic optimization
- Intermediate results, Join
- Selection, sorting
- Advanced indexing techniques
- Physical design and workload
- LAP, star schema, grouping sets
- Transaccions
- NOSQL