

Course: Database management
Unit: Introduction to databases
Assignment: Introduction to databases
Teamwork: Groups of two

General instructions for the assignments:

- A single submission for each group.
- Include the name of all the authors in the front page.
- Submit a PDF file.
- Include an index.
- Don't limit yourself to succinctly answer the questions of the assignment. Consider the instructions as a starting point. These instructions are general guidelines to develop your work. The maximum mark for simply following the instructions is a "pass" (5). To obtain better grades, be creative and go beyond the instructions given by the teacher.

Prepare an introductory paper on databases. You should include information about:

- Different alternatives to store data: plain files, spreadsheets, databases...
- What are databases.
- Why are they needed.
- A brief historical approach mentioning the hierarchical model and network model. Also the relational model.
- Differences about centralized databases and distributed databases.
- Examples of databases.
- Examples of database management systems.
- Classify some current database technologies according to their properties (relational/nosql, centralized/distributed, in-memory/on-disk, open-source/proprietary)

Don't limit yourself to the aforementioned aspects. The goal is to write a paper as complete as possible.

Mention the different sources of information you have used to prepare your paper.

It is highly recommended that you read the first chapter of Databases Systems Concepts by Silberschatz et al.