Benzon Carlitos Salazar HW1: Chapters 1 and 2

## • Chapter 1: DBMS

- Concurrency control:
  - The business owner does not need a concurrency control, because he is the only one accessing the database. And also, because the DBMS application will be a stand-alone application on his PC clone. Concurrency control is only needed when there are multiple users accessing the data.
- Crash recovery:
  - The business owner should pay for a crash recovery feature. This way, when important information is being accessed/modified, or when new/old information is being added/removed, in cases of crashes, the business owner can continue his work by accessing crash log files. This makes working on the DBMS a lot more easier when the DBMS consists of hundreds of employees.
- A reporting tool (tools used for data visualization or generating reports from data):
  - The business owner should pay for a reporting tool. This way, it would be easier to obtain information from the database. A reporting tool can also answer a lot of the possible queries the business owner can have. A reporting tool can also serve as the visualization of the database if he wants to make changes -- like, adding/removing attributes, expanding the dataset, etc.

## A query language:

■ The business owner should not need to pay for a query language. The business owner's intention with the DBMS is to store and read information, therefore a query language would render useless since the only manipulation in the database he will be doing is adding/removing employees/attributes. A lot of the tasks that require him to use a query language could be achieved by the reporting tool.

## • Chapter 2: ER Diagram

