## Puvene



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Homework #1: Introduction to Databases

- File-processing system VS DBMS. List 3 significant difference between a fileprocessing system and a DBMS. Clearly explain each one using example.
- 1.) The file processing system is only stored and vetrieve data but DBMS can manage acoust create a database.
- 2.) Recovery; DBMs keeps the back up of obta, so it's easier to recovery the dota if data we is domn
- 3.) File-processing system is less expensive than DBMS, it?'s only stored and retrieve data, but the DBMS need to derign a complex mechanism to manage the data, need a high skills.
  - 2. Benefits of File-processing system VS DBMS. List 3 benefits of using file-based systems. Clearly explain each one using example.
  - 1) Cost friendly; There is a very minimal to no set up and usage fee for File Processing System
  - 2) Easy to use; File processing system require very basic learning and understanding
  - 3) High scalability; One can very easily switch from smaller to larger files as per his needs.

- DBMS systems. List 3 DBMS (not discussed in class) with their characteristics and components
- 1. SQLite; Software Library provides a relational database management system. It's not alient senior database engine. It's embedded into the and program.
- 2. DB2; Relational database management system from IBM
  that design to stove analyze and retrieve dataextended with 00-features and how relational
  attracture with XML. Mostly DB2 will use for store
  huge amount of organization
  - 4. DBMS systems. List 3 drawbacks of DBMS
- 1. DBMs implement cost is higher than file process system.
- 2. Complexity; proms is so complex to understand.
- 3. Performance; DAMS is generic, making them suitable for various applications. However this teature affect their performance for some applications.
- 5. Queries in Web search VS Database queries. Keyword queries that are used in Web search are quite different from database queries. List key differences between the two, in terms of the way the queries are specified, and in terms of what is the result of a query.

The web search queries will get all results that related to the keyward, but the database queries is a request for the data in the database. It can up dated by using query. so it is more precise and accurate.

## 6. Database Applications.

- a. List 2 applications you have used that most likely employed a DBMS to store persistent data.
- b. For each application, show the list of table(s) with their characteristics.



