CMP 327 31/01/024

Database management

Parts of the database

* Hardware
* Software

Data is a component of the database management system, so as the users.

When we give in data to the DBMS it returns it back as a response

Classification of users

* End users: they are not sophisticated in the use of database
* Designers: they are the one who create and construct the database by creating entities tables and implement them
* Administrators: He maintains the DBMS and is responsible for creating and planning backup of the

Procedures

Characteristics of DBMS

* Real world entity: it concerns with real life entities
* It is relation based: it has relationship with the objects and their tables such as 1-1, 1-many, many-many.
* Database design redundancy: This is when there is repetition in the design. As much as possible avoid redundancy and implement normalization. This is advisable for efficiency.
* Consistency:
* It uses impairing language?
* Isolation
* Durability
* Multi-user and concurrent access
* Security

Functions of DBMS

* Data definition
* 51345Data manipulation
* Data security and integrity
* Data concurrency
* Data dictionary maintenance
* Performance of query

Disadvantages of DMBS

* Complexity
* Size
* Higher impact on failure
* Cost

Architecture of database management system

External, internal, conceptual

Conceptual schemer