

Database Management System

Data dependency: The change in data is effecting data which is data dependency.

Structural dependency : The change in the structure of file is known as structural dependency.

Data redency : Duplication of the data.

Data anomaly : Update and deletion become more complicated. Also it effects insertion.

That's why there are three anomaly

Update anomaly

Deletion anomaly

Insertion anomaly

Accessing of computer file

Sequentially access : Like reading the file through code which only work in sequence.

Direct access : Hard disk is the direct access like you open file from a specific memory location.

Indexing access : It is like direct access but we assign key that help to access a data made by user.

Database

The data base is the hub of data that is more well defined. A shared integrated system that stores data is database.

Enduser Data

Like basic information of a student (Name, Address, Roll No).

Metadata

The metadata is linked with the end user data like datatype, number of entries, limitation and validation. In short its all related with the information that helps for end user data.

Database management system

The database management system is a system that plays a role between it's users. Database management system provide the link through a platform like application or web.

There is also encryption security and many other module that are linked with the data. Such as the student , teacher and the administrator are using the same platform but there are some things that student can't see and there is many thing that event teachers are not allowed to change or see.

Report generation

The report generation is the main and the most efficient feature that can be provided by the database. It is easy for you to see the record of any time of the year and it will not take much time.

Why we use report generation?

We make decision by looking at the previous record which helps a lot to do it like if we can see the record of a student of every year and every semester we can take decision for his/ her courses that they should take or not.

Classify the database on the basis of user

Two database can be made on the basis of the users.

- Single user
- Multiple user