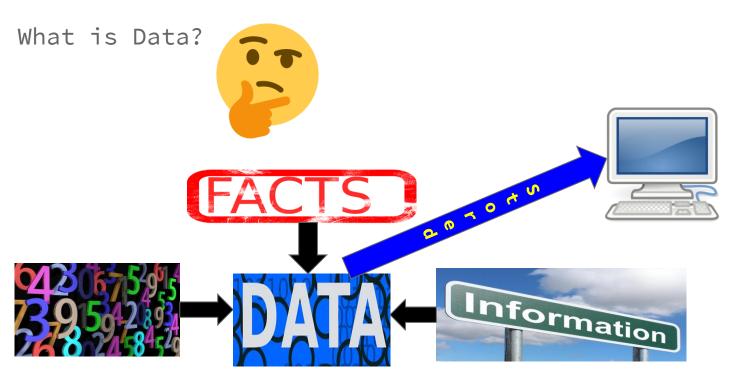
DATABASE SYSTEM











What is Database?



Database is a

organized collection of data

Example:

- ★ University database.
- ★ College database.



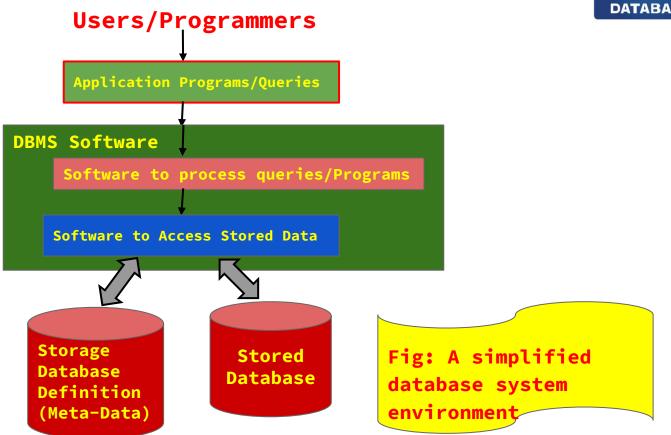
What is DBMS?



DBMS stands for <u>D</u>ata<u>b</u>ase <u>M</u>anagement <u>S</u>ystem.

DBMS is a software which is use to manage the data in the database.







Characteristics of Database:

- ★ Self-describing nature of a database system
- ★ Insulation between programs and data, and data abstraction
- ★ Support of multiple views of the data
- ★ Sharing of data and multi user transaction processing

Actors on the scene:

The people whose jobs involve the day-to-day use of a large database; They are called as "actors on the scene"





Database Designers







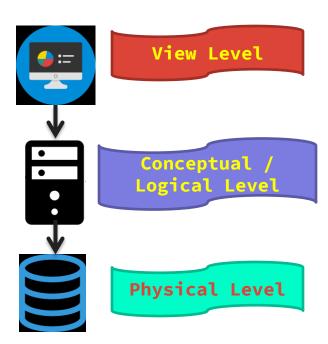
Advantages of Using The DBMS Approach:

- Controlling Redundancy
- * Restricting Unauthorized Access
- Providing Backup and Recovery
- Providing Multiple User Interfaces

DATABASE

Data abstraction: The process of hiding irrelevant detafrom user is called data abstraction.

Levels of abstraction:





Data Independence:

Data Independence can be defined as the capacity to change the schema at one level of a database system without having to change the schema at the next higher level.

Types:

