24/04/2023 Day-1 Lec-1

DBMS :- (Data base management system)

Data :- → collection of raw bytes (central stage)
→ Bits | Bytes (Data form) processing)

Eg :- Image :- divided into pixels and that pixels doesn't store in bits | bytes. (The reason being said, yeh Photo 1.5mb ki hai).

* Data is useless or meaningless until it is processed or interpreted.

Data
1. Quantitative (numerical, Eg :- weight, etc)
2. Qualitative (descriptive, Eg :- name, hair color etc.)

Data ⟶ Information

* Information :-
→ processed, organized, and structure data.
→ provides context of the data and enables decision making.

→ Information means, processed data that makes sense to us.

[/* Data is the new oil */]

VS

Data	Information
1. collection of facts.	1. puts facts into context.
2. Data is raw	2. Info. is organize.
3. meaningless	3. meaningfull.
4. doesnot depend on Info	4. Depends on data.

* Data base:-

→ A place/system where data is store in a way that it can be easily accessed, managed, and updated.

→ To make real use of data, we need DBMS.

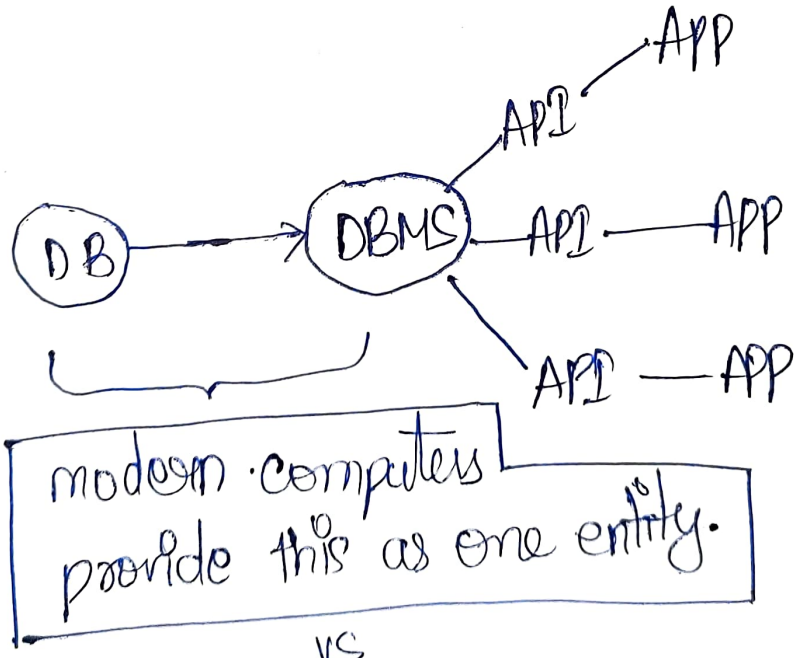
* Data Base manggement system :- (DBMS)

→ collection of interselated data and a set of progsams to access those data.

→ DBMS goal is to provide way to store and retrieve database info.

→ DBMS is a db itself with software and fundionality.

→ used to perform CRUD of the data. (addition, access, updating, deleting).



→ File system vs DBMS :-

→ file system is not efficient due to some factors like redundancy, diffudty in access, integsity, security, etc....