

**UNDERSTANDING**

# **DBMS**



# DATA

Data is a collection of a distinct small unit of information. It can be used in a variety of forms like text, numbers, media, bytes, etc. it can be stored in pieces of paper or electronic memory, etc.





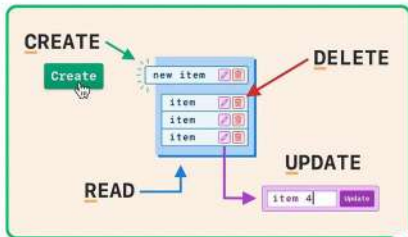
We use **DBMS** for so many things but one of the main uses is to perform the CURD operations on the database. CURD is an acronym that stands for -:

**C - Create**

**R - Read**

**U - Update**

**D - Delete**



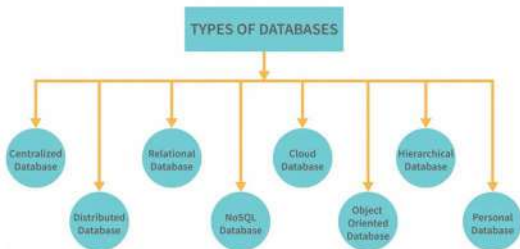
# Why Do We Need DBMS

**We need DBMS for the following reasons :-**

- Ease of Access : Data is easily accessible.
- hassle-free file management :- The objects are indexed based on the attribute of the data resulting in faster retrieval of data.
- Storage and management of databases :- In DBMS, data can be stored in the form of objects.
- Avoiding redundancy :- Data **normalization in DBMS** avoids duplicate data.

# Different Types of DBMS

There are various types of database management systems based on the database structures. We can arrange data in various formats for a variety of use cases.



# Applications :-

There are many applications of DBMS (Database Management System). A DBMS is required wherever data is needed to be stored and managed efficiently.

## Application of dbms

Scientific Database	Online Shopping	Healthcare System
Library Management System	Human Resource Management	Railway and Airline Reservation System
Banking	Manufacturing	Military Purpose
Education Sector	Telecommunication Sector	Agricultural field
Social Media Sites	Ride-sharing Concept	Finance Sector