Data - Raw bits stored in a computer.
      Individual raw bits can be meaningless.
Information - Meaningful collection of data
Database - Huge (organized, related) collection of data
Database management system - a software package to manage a huge databases. Ex- Oracle, MySQL, FoxPro, Access, SQL Server etc.

Problems with conventional file processing system to handle database
1. Data redundancy and inconsistency.
2. Difficulty in accessing data.
3. Data isolation
4. Integrity problems. → can't fix constraints easily
5. Atomicity problems. → $A \xrightarrow{\$100} B$
6. Concurrent access anomalies $\$500$ → if system fails midway
     the floating amount can be catched by atomicity property
7. Security issues. → if two persons withdraw money from same account at the same time.

Properties of DBMS : ACID
- Atomicity
- Consistency
- Isolation
- Durability

Recommended books -
1. Database system concepts - Korth & Silberschatz
2. DBMS - Elmasri & Navathe
* 3. DBMS - C.J. Date
4. Oracle - Ivan Bayross
5. ANSI SQL - M Gruber