A **Database** is a shared collection of logically related data and description of these data, designed to meet the information needs of an organization.

A **Database Management System (DBMS)** is a software system that enables users to define, create, maintain, and control access to the database. Database Systems typically have high costs and require high-end hardware configurations

An **Application Program** communicates with a database by issuing an appropriate request (typically a SQL statement)

**Function of DBMS:**

1. **Data management:** Store, retrieve & modify data.
2. **Transaction support:** Ensure modification to database must either successful or not done at all.
3. **Concurrency Control:** Simultaneous data access to provider
4. **Recovery:** Recovery mechanism of data so nothing is lost
5. **Security:** Access to authorized user.
6. **Integrity:** Maintain accuracy of data.
7. **Utilities:** Data import/export, user management, backup , performance analysis & logging