

# Introduction to Databases

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# Database Management System (DBMS)

... efficient, reliable, convenient, and safe multi-user storage of and access to massive amounts of persistent data.

# Database Management System (DBMS)

- Massive
- Persistent
- Safe
- Multi-user
- Convenient
- Efficient
- Reliable

# Database Management System (DBMS)

- Database applications may be programmed via “frameworks”
- DBMS may run in conjunction with “middleware”
- Data-intensive applications may not use DBMS at all

# Key concepts

- Data model
- Schema versus data
- Data definition language (DDL)
- Data manipulation or query language (DML)

# Key people

- DBMS implementer
- Database designer
- Database application developer
- Database administrator



**Whether you know it or not,  
you're using a database every day**