



Database Design Process

IST 210

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Key points

- Database design must reflect the information system of which the database is a part
- Information systems undergo evaluation and revision within a framework known as the Systems Development Life Cycle (SDLC)
 - Databases also undergo evaluation and revision within a framework known as the Database Life Cycle (DBLC)
 - There are two general design strategies exist:
 - top-down vs. bottom-up design
 - centralized vs. decentralized design



The Information System

- Database
 - Carefully designed and constructed repository of facts
 - Part of an information system
- Information System
 - Provides data collection, storage, and retrieval
 - Facilitates data transformation
 - Includes people, hardware, and software