DBLC – database life cycle

6 phases of DBLC

1. database initial study defining objectives; analyzing company situation

2. database design creating conceptual design; selecting DBMS software

3. implementation and loading installing DBMS; creating database; loading/converting data

4. testing and evaluation

5. operation producing required info flow

6. maintenance and evolution make enhancement; introduce change

Design processes

Managers- what is the information they have they need to use for implementation; what is the information they need? What exactly is the data?

Designer- see data as “how?”; how will an entity retrieve info?

1. Conceptual design – viewed from users – have ERD – every term should be understandable to end users

a. ERM and normalization (define entities, attributes and relationship)

b. Data model verification (identifies ERM and validates, inserts, updates, and deletes rules)

c. data analysis and requirements

2. DBMS selection

3. logical design: viewed from DBMS

4. physical design: viewed from storage

Physical security