Slide 1

Database System Design

Slide 2

System / Data Modeling

Problem ?

MiniWorld Reality of Interest

Modeling

DBS

Slide 3
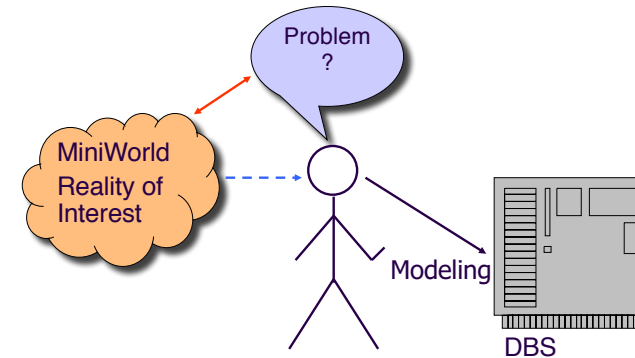
Database System Life Cycle

Feasibility study

Requirements collection & analysis

Design

Prototype   Implementation

Validation and Testing

Operation

Slide 4
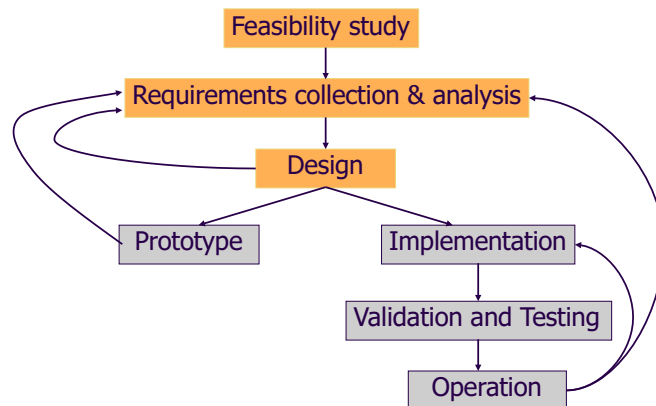
Design

- ❑ Database Design
  - ▪ Database design is the activity of specifying the schema of a database in a given data model

- ❑ Functional Design

Functional Design

- ❑ High-level specification of Transactions
  - ▪ DBMS-independent
  - ▪ Even diagrams, UML

- ❑ Application program design
  - ▪ DBMS-specific (db Schema together with DML)
  - ▪ Language and environment-specific