**Database design process**

Conceptual database design (ERD Modeling)

* Identify entities (Strong Weak)
* Identify relationships (Recursive, Binary, Complex)
* Identify constraints (Multiplicity participation/cardinality)
* Identify attributes (simple/composite, multivalued attributes, derived attributes, entity constraints/domain constraints)
* Is-a Hierarchy, composition, aggregation
* Primary Key (Alternate/candidates that are available)
* Fan trap/Chasm
* Look for redundancy
* Test against queries to ensure we can answer
* Review with the end-users

Logical Database Design (Relational Model)

* Map my entities to table relations (Relationships, relations, multivalued attributes)
* Validate relations/via normalization
* Test queries against Schema
* User agreement