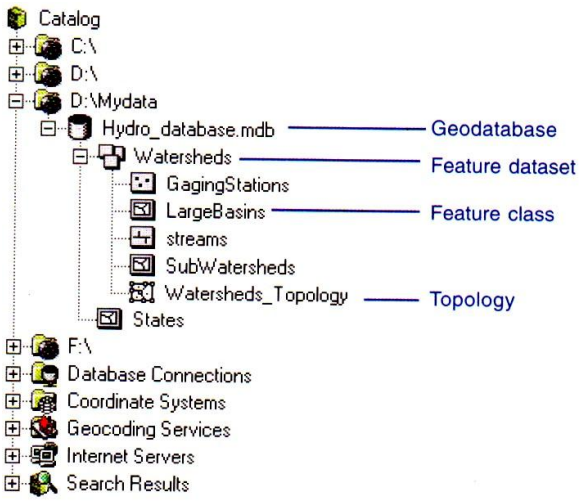
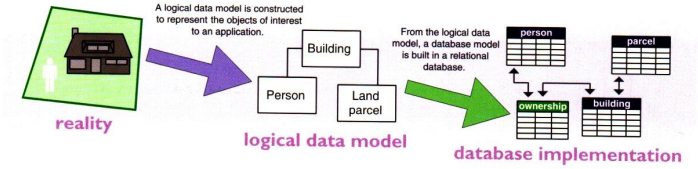
Geodatabase Design



Steps to Designing Geodatabase

- Conceptual design
- Logical design
- Physical design



Steps to Designing Geodatabase (cont.)

Conceptual Design Phase

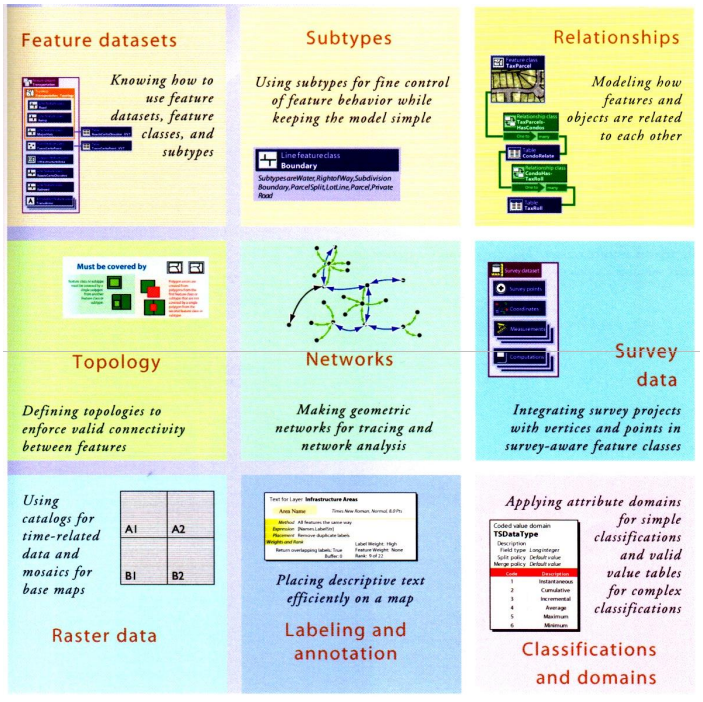
- Identify information products
- Identify key information layers
- Specify scale ranges and spatial representation
- Group representation into datasets

Logical Design Phase

5. Define database structure and behavior
6. Define spatial properties
7. Propose a geodatabase design

Physical Design Phase

8. Implement design
9. Design building and maintaining work flows
10. Document your design



Documenting Geodatabase Design

- Datasets (geometry + attribute)
- Map layers
- Relationships
- Domains
- Rules

Grouping of Objects

- Geometric objects -> (Subtypes ->) Feature Classes
- Feature classes -> (Feature Datasets ->) Geodatabase
- Lines, points -> Network: junctions, edges
- Geometric objects -> Topology: related geometric objects

Other considerations

- Attribute domain
- Topology
- COGO survey data
- Raster data
- Map annotation
- Data model templates
  - www.esri.com -> support -> download -> data models