

OLAP => Online Analytical Processing
XML aims for Information exchange
on the Internet

DBMS => Database Management System
e.g. SQL Server, Oracle

Scheme => Data structure of database

DTD => XML schema defining the
XML document Rules

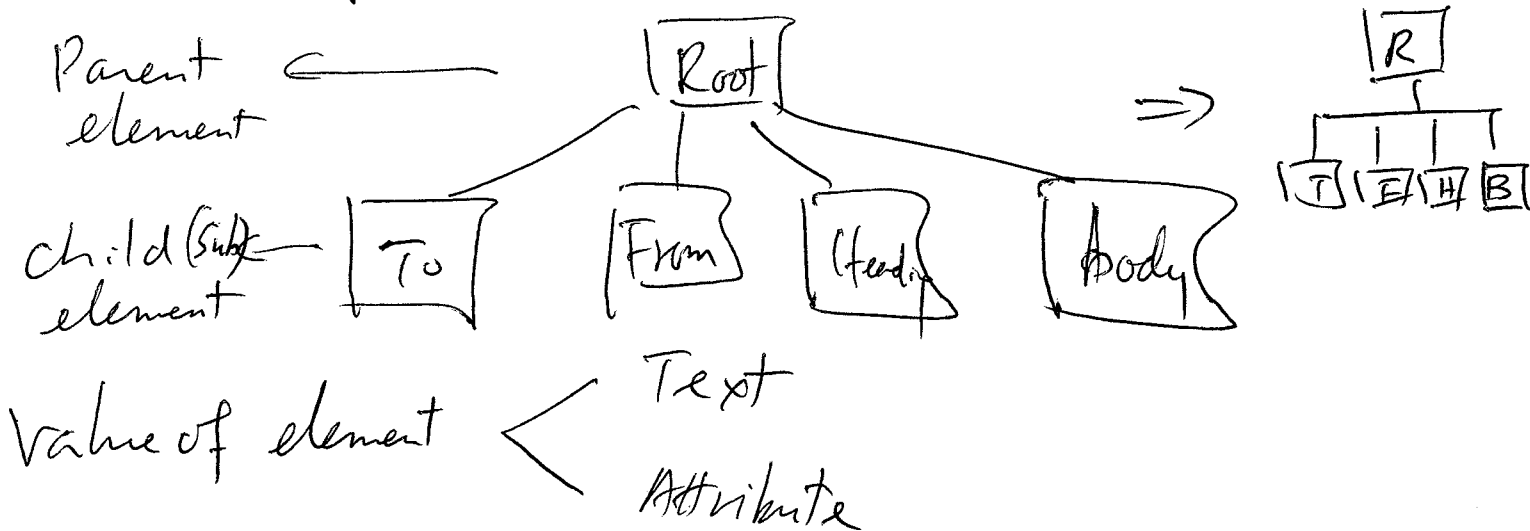
XML document can be stored into XML database

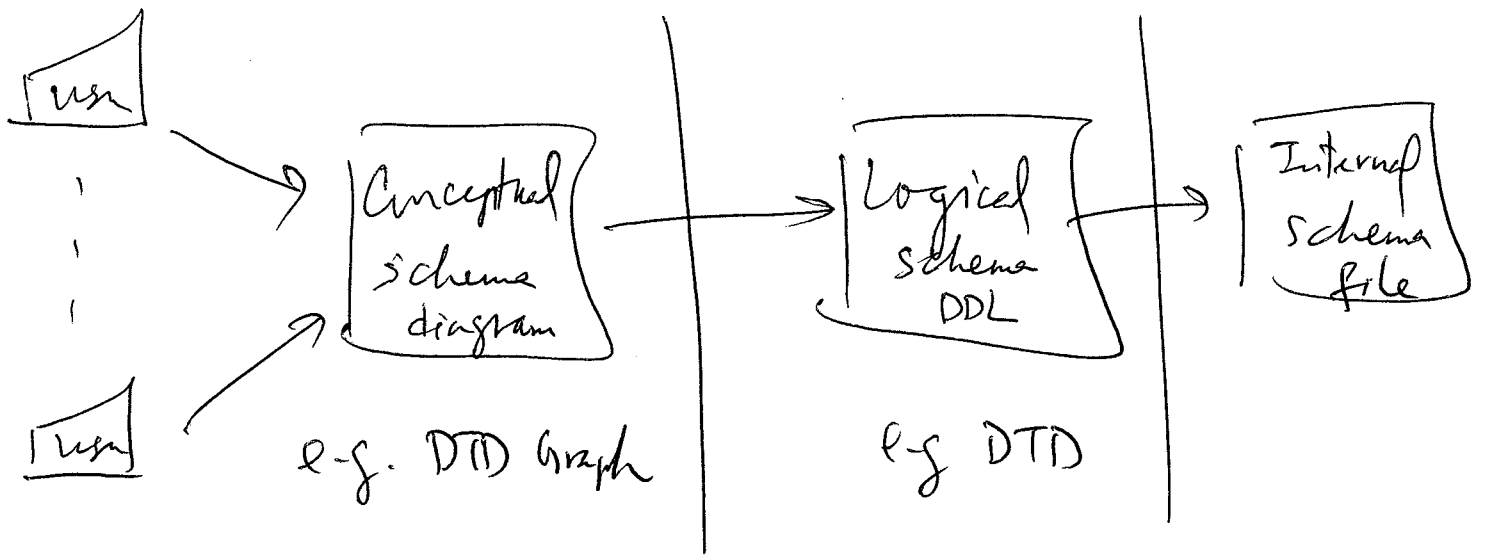
XML declaration statement e.g. Version Number

Text data is between tags in XML document

Element defines hierarchical structure of XML document

Example: XML document

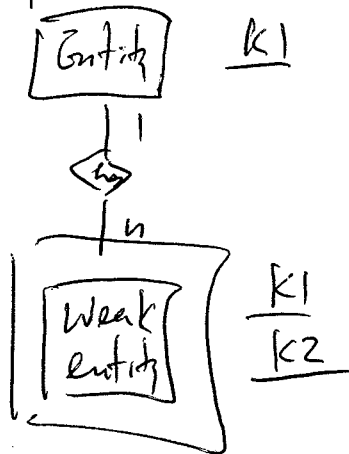




EER Model \rightarrow DTD Graph

- ① Choose an entity as a Root element
- ② Navigate entity to another entity by following the navigation path between elements.

e.g. Parent-to-child \Rightarrow one-to-many
 child-to-parent \Rightarrow one-to-one



Alternative EER model → DTD Graph in the notes

- ① Choose an Artifact Root element
- ② Put non-parent entities under Root element
(i.e. one-side)
e.g. one-to-many entities
⇒ one parent to many child entities

③ Each child element can have one parent element in hierarchical structure.

④ If a child element has multiple parent (one-side) elements, then it must use IDREF ~~to~~ pointing to the additional parent element.

IDREF is on the many-side ^{child} element
ID is on the one-side parent element