

MIS 385/MBA 664

Systems Implementation with DBMS/
Database Management

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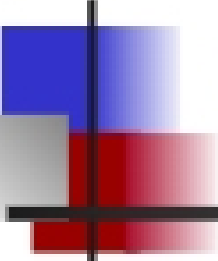
<http://www.davesalisbury.com/> (web site)





Evolution of the E-R Model

- Basic E-R Model
 - over 25 years old
 - complex data relationships and new database technology have outgrown it in some respects
- Enhanced E-R Model
 - a response to the shortcomings of the basic E-R model
 - not universally agreed upon in some respects
 - introduced the supertype/subtype relationship



Supertype/Subtype Relationships

- **Supertype (example: Employee)**
 - a generic entity that has a relationship with one or more subtypes
- **Subtype (example: Manager)**
 - a subgrouping of a supertype entity that is meaningful to an organization
 - shares all attributes of its supertype, but also has unique attributes of its own and/or :
 - has relationships with other entities distinct from those of other subtypes