CONCEPTUAL DATA MODELLING

Entity-Relationship Diagrams

- Conceptual Data Model
- Information System Design
- Data Base Implementation
- Entity-Relationship Diagram
- relational, hierarchical, network DBMS
- FILE System
- physical layout, size, allocation, optimisation, etc.

Entity-Relationship Diagrams

- original paper by P.P. Chen 1976
- strong support by tools, user-groups, books, etc.
- many extensions and variations
- is a de-facto standard
- combines with other methods (e.g. DFDs)

DFDs and ER-Diagrams

Goals and Concepts:

- description and analysis of complex information structures
- analyse the target system by finding
  - entities & relations
- generalise your findings and identify
  - types of entities and relations
- document your information basis as
  - a network of entity and relation types
Complete Entity-Relationship Model

- Entity-Relationship Diagram
- Data Dictionary
- Consistency Rules

End of Section 9a

coming up:
more about
ER diagrams