IF2240 – Basis Data Database Development Process

SEMESTER II TAHUN AJARAN 2022/2023



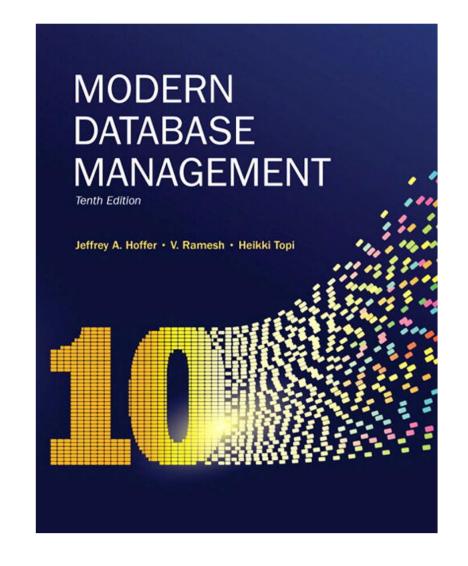


Modified from Modern Database Management (©Prentice Hall) slides

Sumber

Jeffrey A. Hoffer, V. Ramesh, Heikki Topi: "Modern Database Management", 10th Edition

Chapter 1: The
 Database Environment
 and Development
 Process







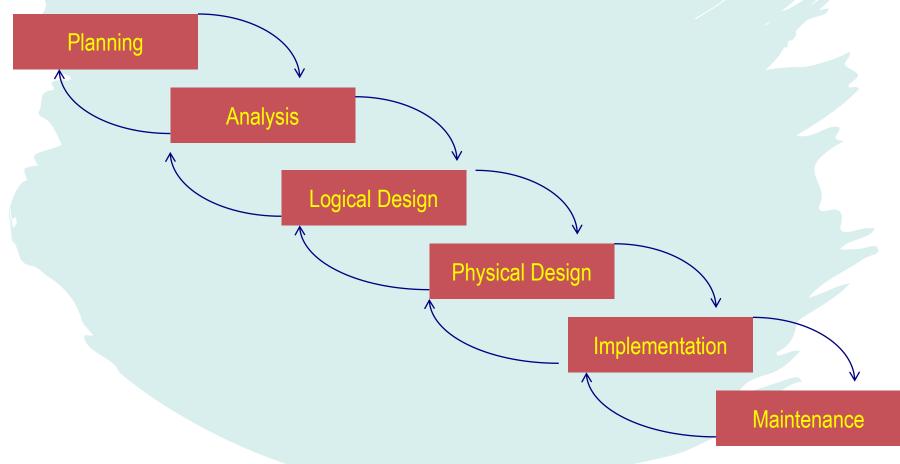
Two Approaches to Database and IS Development

- SDLC
 - System Development Life Cycle
 - Detailed, well-planned development process
 - Time-consuming, but comprehensive
 - Long development cycle
- Prototyping
 - Rapid application development (RAD)
 - Cursory attempt at conceptual data modeling
 - Define database during development of initial prototype
 - Repeat implementation and maintenance activities with new prototype versions

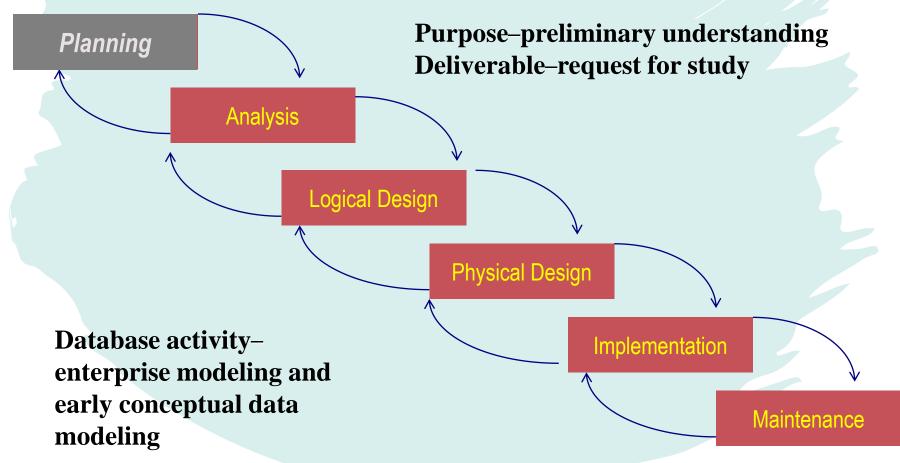




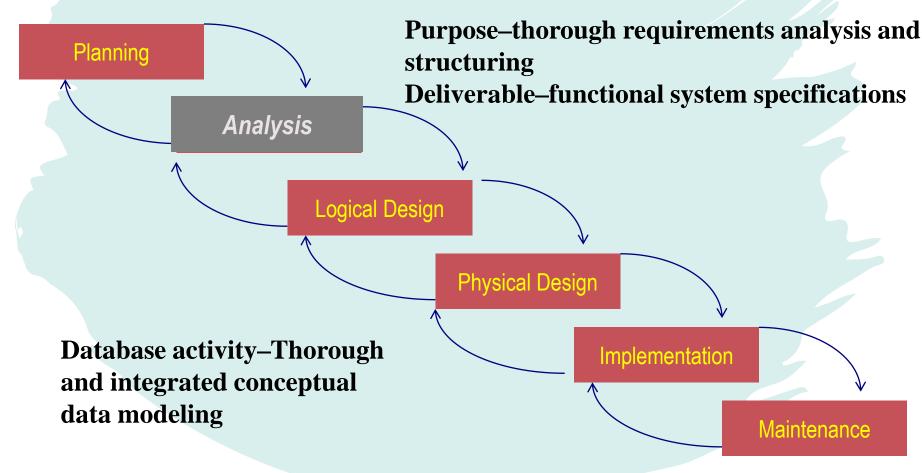
Systems Development Life Cycle



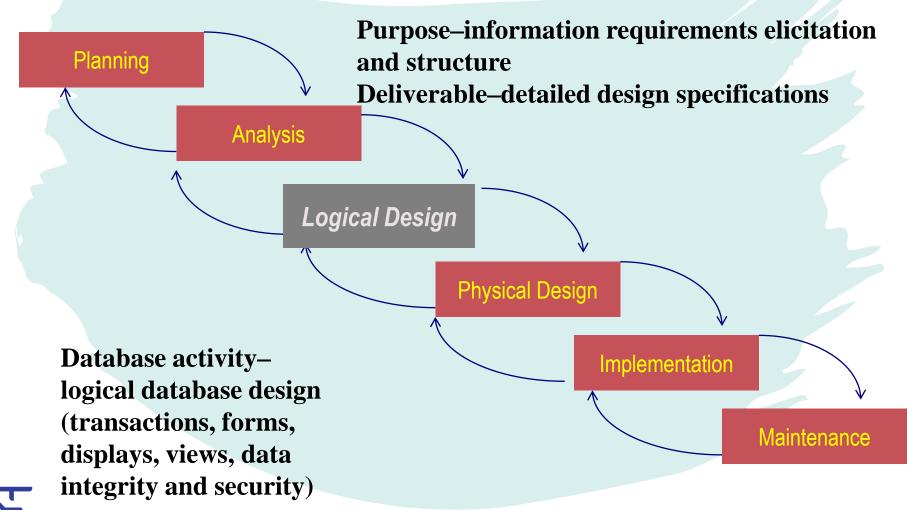




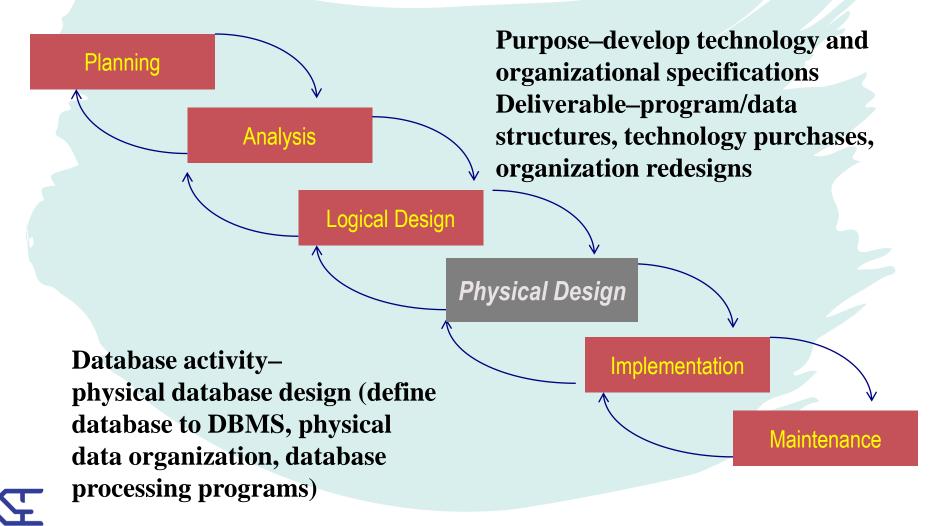


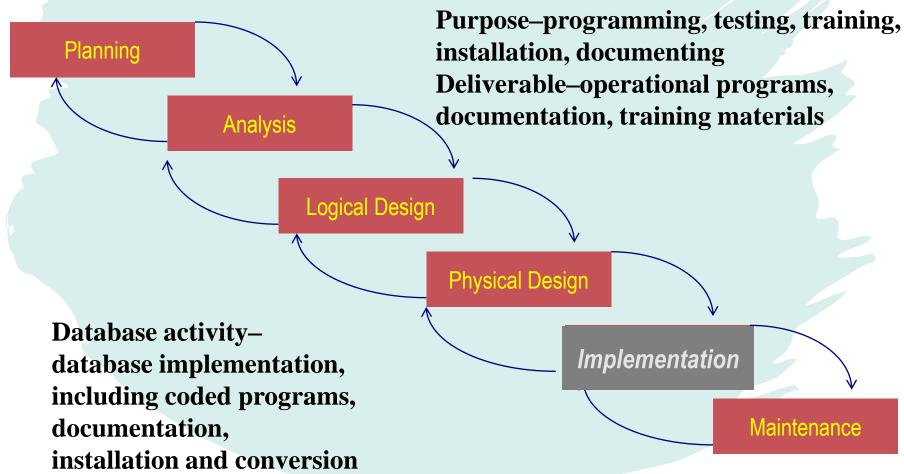




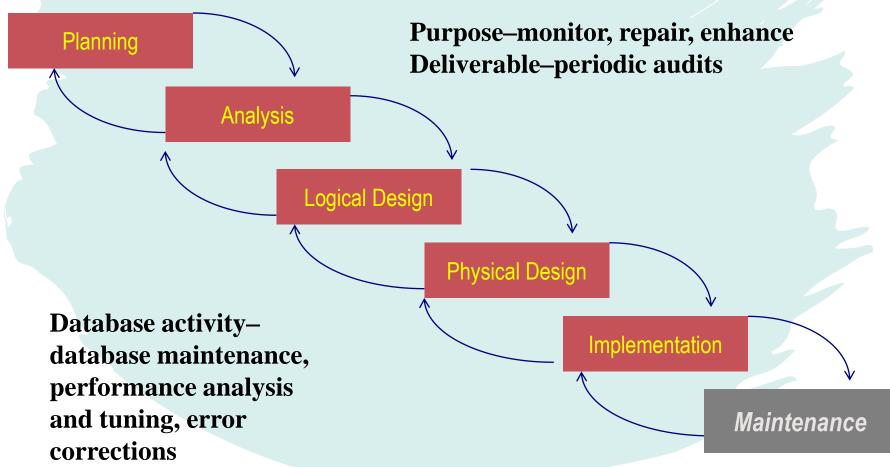






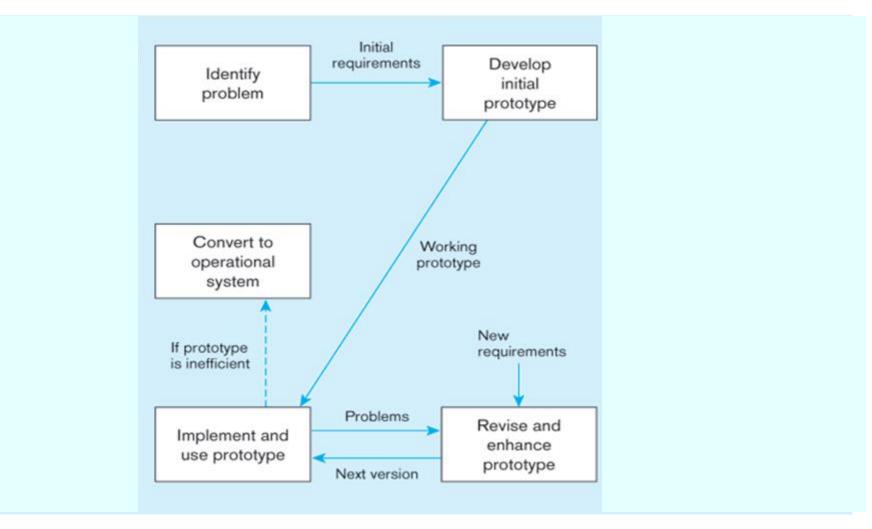




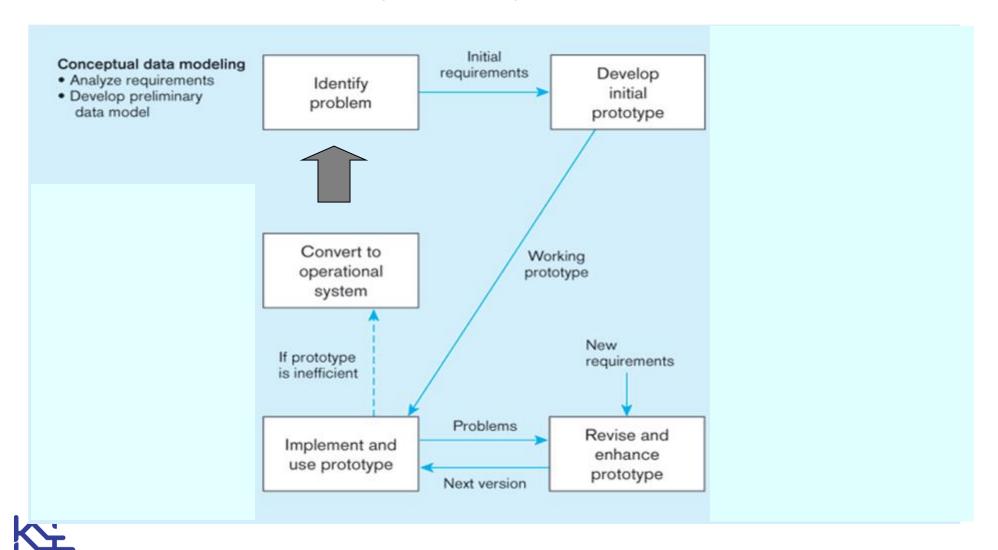


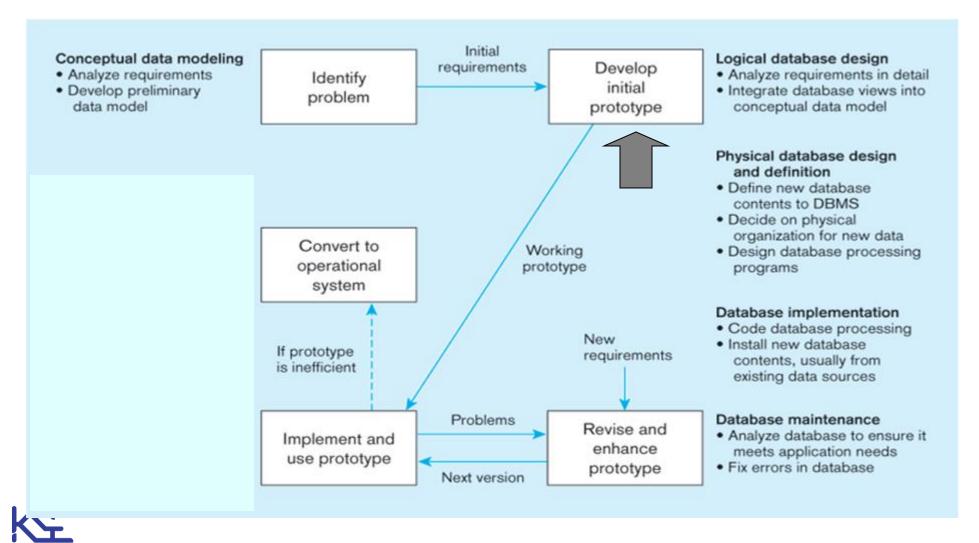


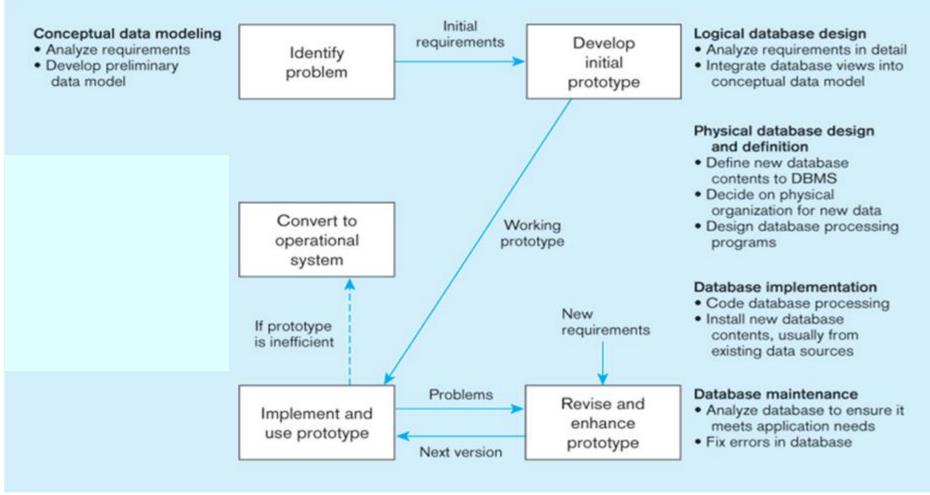
Prototyping Database Methodology





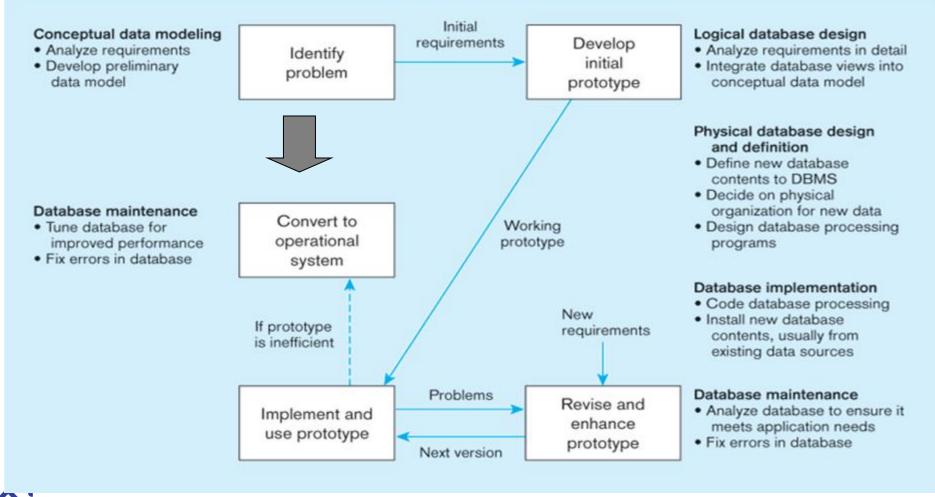








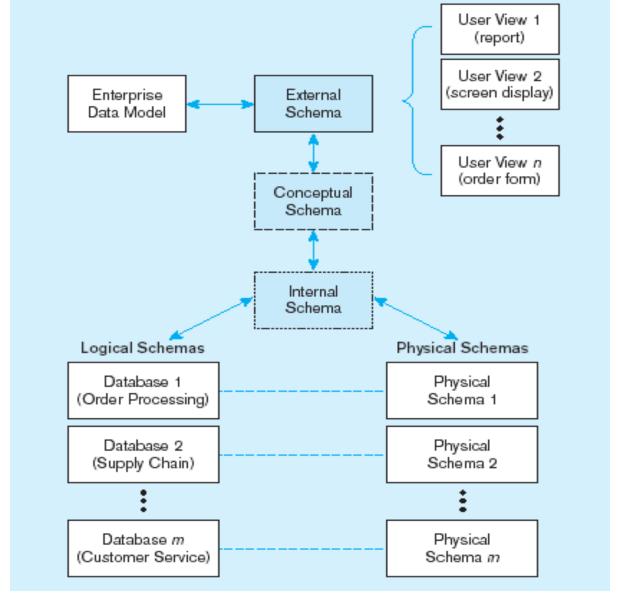




Three-schema architecture

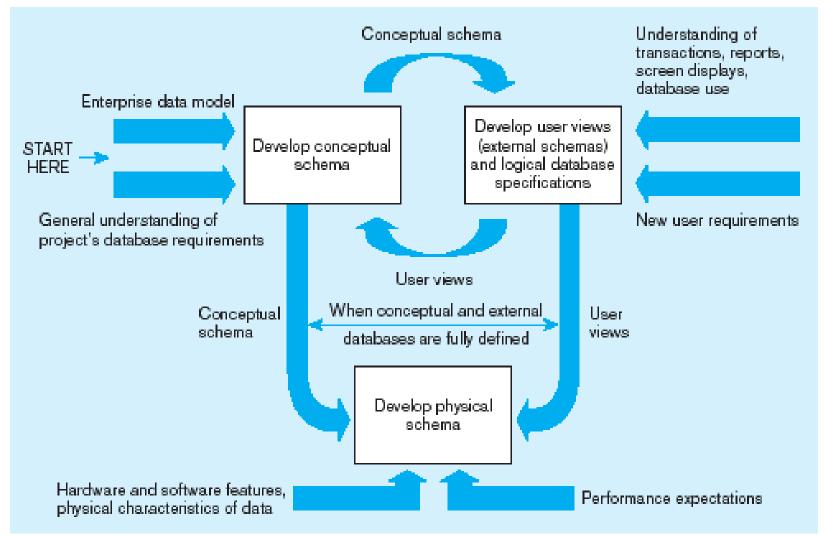
Different people have different views of the database...these are the external schema

The internal schema is the underlying design and implementation





Developing the three-tiered architecture





Three-tiered client/server database architecture

