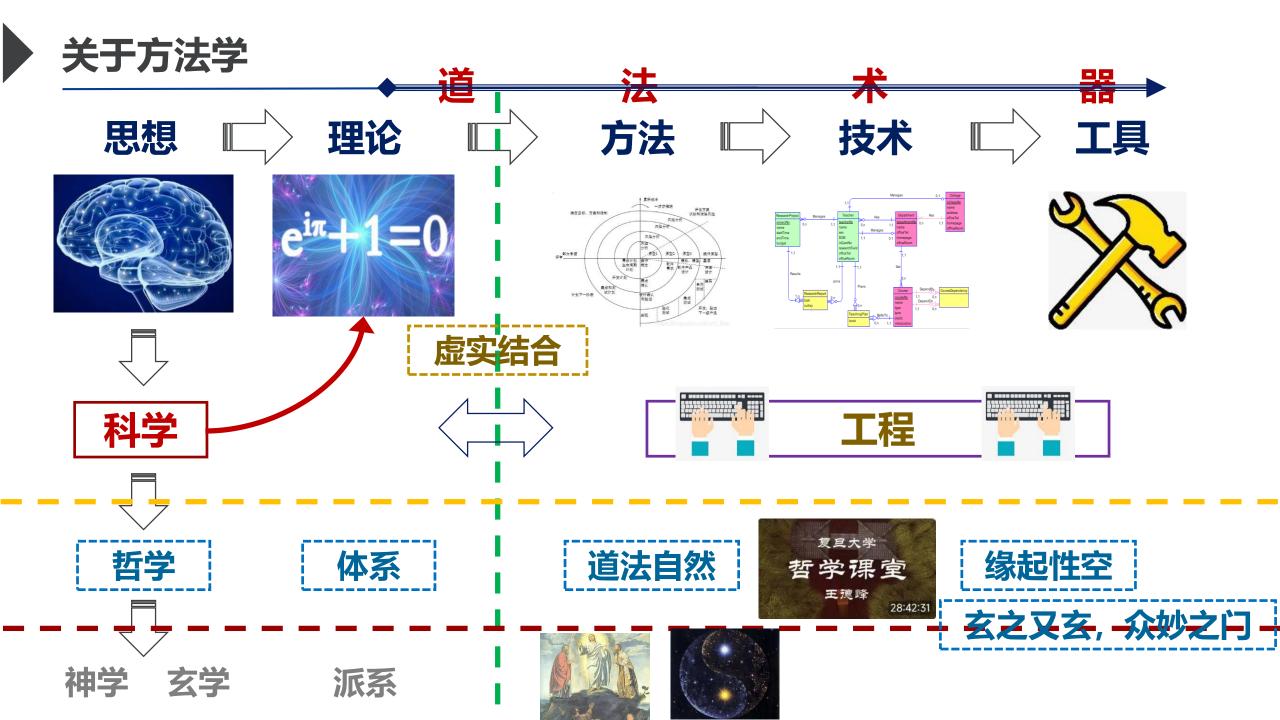
《数据库系统》——数据库设计

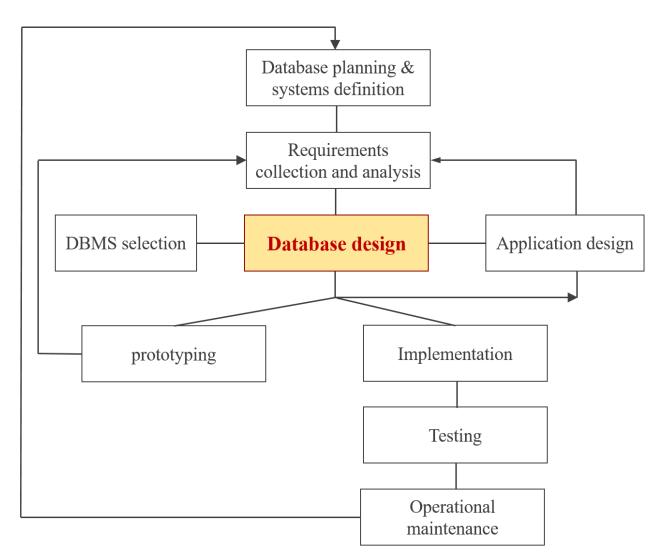
数据库设计方法学

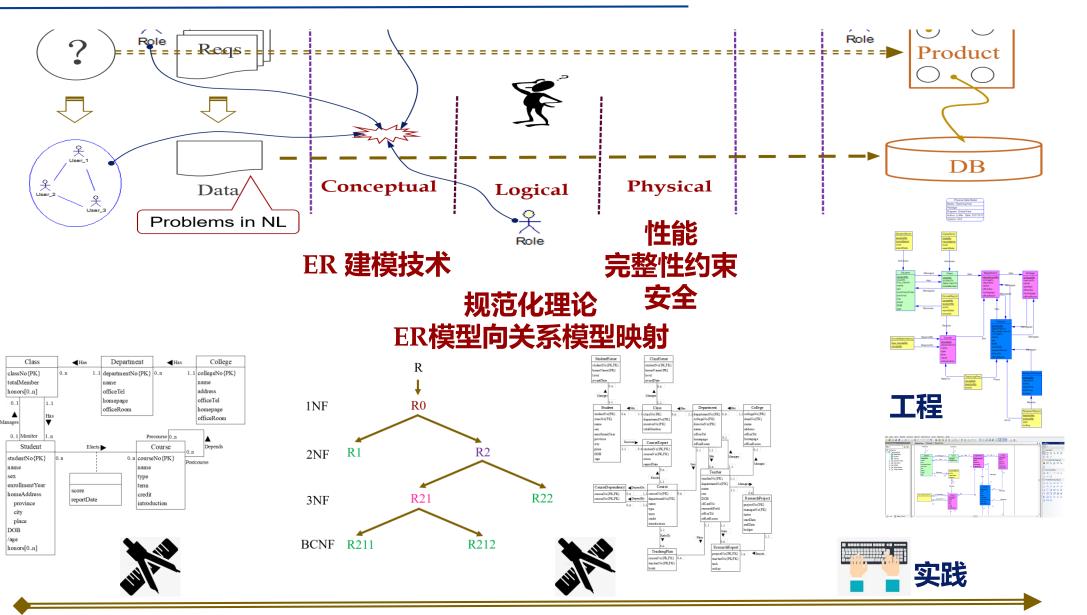
讲解人: 陆伟 教授



关于方法学

方法学: 支撑达到目标的要素,包括过程、技术、工具以及文档,有时也涵盖理论指导。

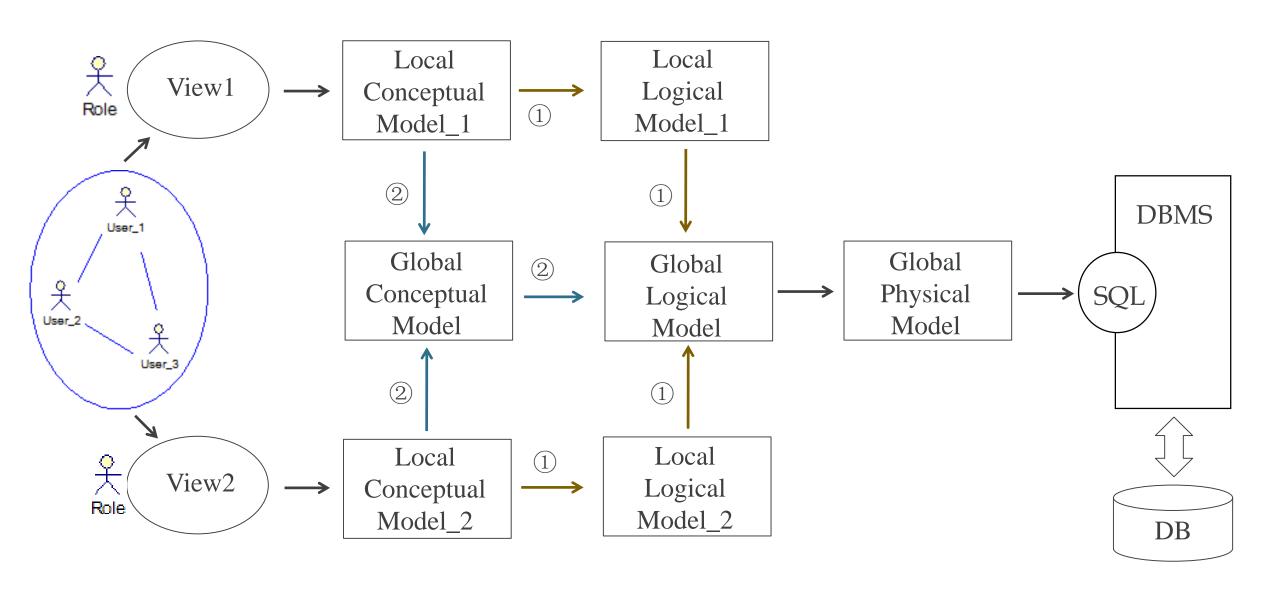




数据库设计各阶段目标

- ☐ Conceptual database design
 - The process of constructing a model of the information used in an enterprise, independent of all physical considerations. 对需求负责
- Logical database design
 - The process of constructing a model of the information used in an enterprise based on a specific data model, but independent of a particular DBMS and other physical considerations. 对目标模型负责
- Physical database design
 - The process of producing a description of the implementation of the database on secondary storage; it describes the base relations, file organizations, and indexes used to achieve efficient access to the data, and any associated integrity constraints and security measures. 对具体DBMS负责

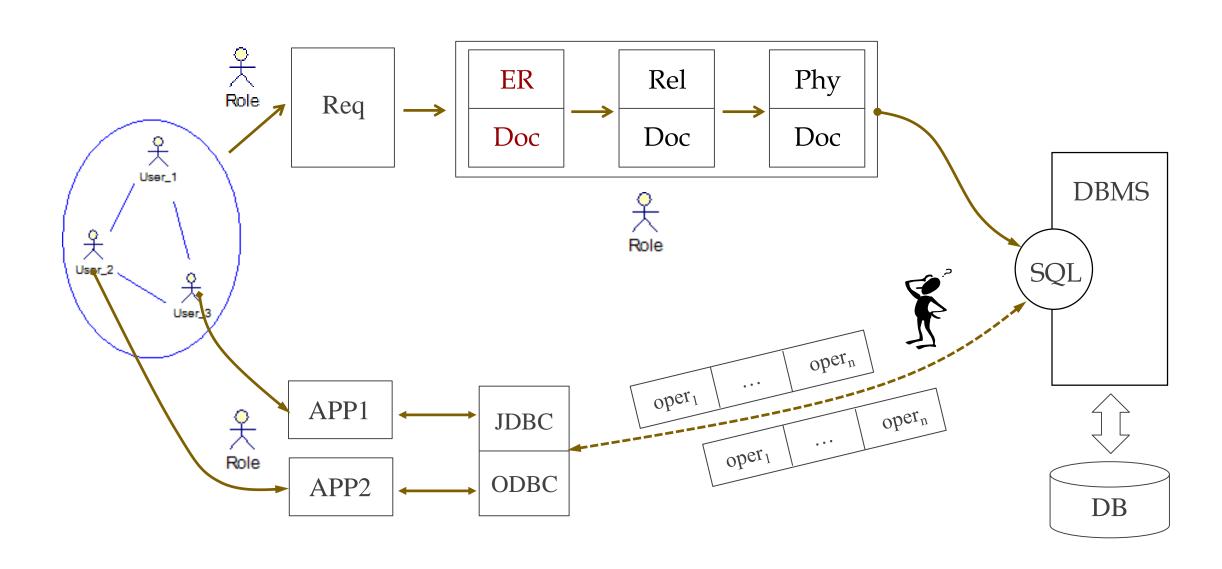
工程中复杂系统设计分解



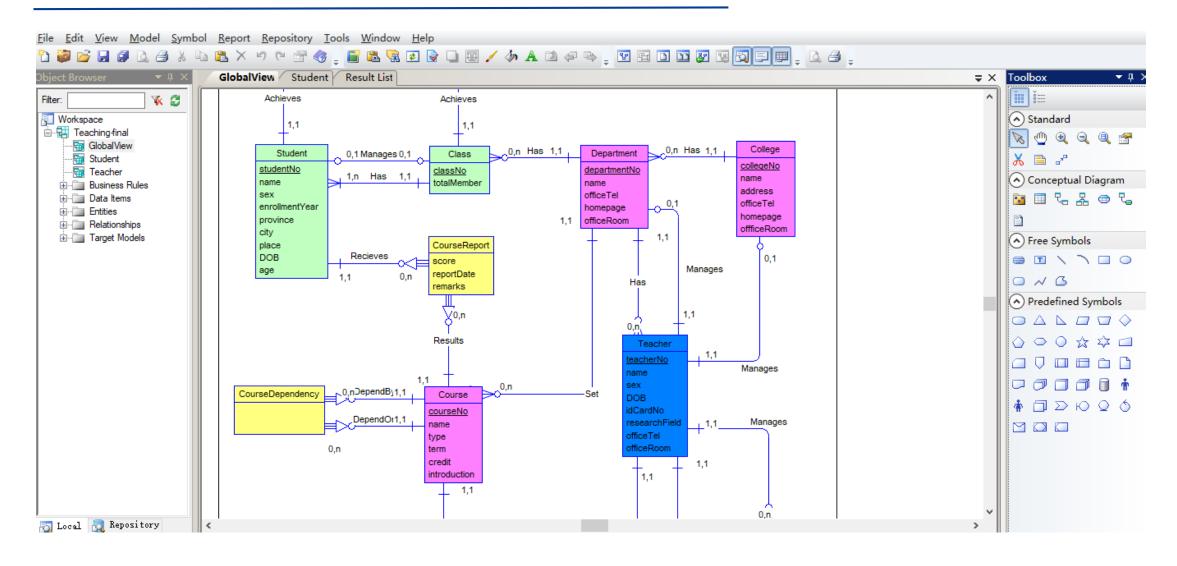
数据库设计各阶段步骤

- ☐ Conceptual database design
 - Step 1
 - Step 1.1
 - •
- Logical database design
 - Step 2
 - Step 2.1
 - •
- ☐ Physical database design
 - Step 3
 - Step 3.1
 - •

数据库设计与应用的闭环



数据库设计CASE工具



关于本讲内容



祝各位学习愉快!

感谢观看!

讲解人: 陆伟 教授