

- Database:
- Relational Database Design:
- Database Management System (DBMS):
- Candidate Key:
- Primary key:
- Foreign Key:
- Entity:
- Attribute:
- Relationship:
- Base Relation:
- View:
- Data Independence and the ANSI-SPARC Three-Level Architecture (slide 13 of Ch. 2)
 - External Level:
 - Conceptual Level:
 - Internal Level:
- Domain constraint:
- Entity integrity:
 - Referential integrity:
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- Database Design (slide 4 of Ch. 10):
 - Three phases of Relational Database Design:
 - ◆ Conceptual:
 - ◆ Logical:
 - ◆ Physical:

- **ER Modeling:** a top-down approach of DB design
 - *Composite Attribute:*
 - *Multi-valued Attribute:*
 - *Derived Attribute:*
 - *Weak entity:*
 - A *binary relationship*
 - A *ternary relationship*
 - *Recursive / unary relationship*
- **Enhanced ER Modeling**
 - *Disjoint constraint:*
 - *Participation constraint:*
 - *Specialization:*
 - *Generalization:*
- **Normalization:** a bottom-up approach of DB design
 - *Determinant:*
 - *Full functional dependency:*
 - *1NF:*
 - *2NF:*
 - *3NF:*
 - *BCNF:*
- **SQL (Structured Query Language)**
 - *DDL (Data Definition Language):*

- ***DML (Data Manipulation Language):***