•	Database:
•	Relational Database Design:
•	Database Management System (DBMS):
•	Candidate Key:
•	Primary key:
•	Foreign Key:
•	Entity:
•	Attribute:
•	Relationship:
•	Base Relation:
	Vienn
	View:
•	Data Independence and the ANSI-SPARC Three-Level Architecture (slide 13 of
•	
•	Data Independence and the AVSI-SPARC Three-Level Architecture (slide 13 of
•	Data Independence and the AVSI-SPARC Three-Level Architecture (slide 13 of Ch. 2)
•	Data Independence and the MSISPARC Threes Level Architecture (slide 13 of Ch. 2) External Level:
•	Data Independence and the AVSI-SPARC Three-Level Architecture (slide 13 of Ch. 2) External Level: Conceptual Level:
•	Data Independence and the ANSISPERCTION I well Architecture (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level:
•	Data Independence and the MSI SPACE Three Level And Decision (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level: Domain constraint:
•	Data Independence and the ANSI-SPARC Three-Level Architecture (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level: Domain constraint: Entity integrity:
•	Data Independence and the MSI-SYARC Time Level A chite time (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level: Domain constraint: Entity integrity: Referential integrity: Output
•	Data Independence and the MISI-SPARI Three Level Amhitecture (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level: Domain constraint: Entity integrity: Referential integrity: Database Design (slide 4 of Ch. 10):
•	Data Independence and the ANSI SPARE Investive Annitorium (slide 13 of Ch. 2) External Level: Conceptual Level: Internal Level: Domain constraint: Entity integrity: Referential integrity: Database Design (slide 4 of Ch. 10): Three phases of Relational Database Design:

•	ER Modeling	: a top-down approach of DB design
	■ Compos	site Attribute:
	■ Multi-v	alued Attribute:
	■ Derived	Attribute:
	■ Weak e	ntity:
	■ A binar	y relationship
	■ A terna	ry relationship
	■ Recursi	ve / unary relationship
•	Enhanced Ef	R Modeling
	■ Disjoint	constraint:
	■ Particip	ation constraint:
	■ Speciali	zation:
	■ Genera	lization:
•	Normalizatio	on: a bottom-up approach of DB design
	■ Determ	inant:
	■ Full fun	ctional dependency:
	■ 1NF:	
	■ 2NF:	
	■ 3NF:	
	■ BCNF:	
•	SQL (Structu	red Query Language)

DDL (Data Definition Language):

■ DML (Data Manipulation Language):