Tuesday, July 16, 2024 4:20 PM

Domains, Attributes, Tuples, Relations

· Relation

- set of n-tuples

Integrity, Referential Integrity 2 Foreign Key

- · Entity Integrity Constraint -No primary key value can be NULL
- · Referencial Integrity Constraint -specified between 2 relations
- Maintains consistency among tuples in 2 relations

Foreign Key Rules

Relational Databases

- · Relational DB Schema
 - Set of relation schemas S = {R, R2, R3, ... Rn} - Set of integrity constraints (Ic)
- · Relational DB State
 - Set of relation States DB = {rirz, ... ru}
- · Invalid State
 - Does not obey all the integrity of Constraints
- · Valid State
 - Satisfies all the constraints in the defined set of Integrity Constraints

Constraints

- · Domain on Column
 - Set of atomic values in some domain type
- · Atomic Constraint
 - Each value should be single and Ind/visible
- · specifying a domain
 - Data type specified for each domain for out adumn

Primary Key Constraint

- Any value of PK should be unique
- 1 No duplicates
 - · Entity Integrity Constraint
 - No primary key value can be NULL
 - Null Volue connot be inserted