

Databases

09/01

- Relational Databases:

relation = tables

1. Relational schema vs. relational instance

table header

- design/blueprint of a relation

- Three components

- Table name = "Account"

- Attributes = columns

- Domain = specifies attribute constraints.

Ex. Account (acc-# = int, branch = int, ...)

2. Relational Instance. (i.e. the real table.)

- A collection of tables, each of which is built following the schema.

- Properties of relations:

1.) Relations are unordered.

2.) Relations should have no duplicated tuples in practice, they can be kept.

3.) Each value in any ~~attribute~~^{tuple} is atomic.

4.) NULL value, which captures unknown data.

