

# Relational Model: Definitions

- *Relation = Table + Schema*
  - Table (instance): consists of **rows** (records or tuples) and **columns** (attributes or fields)
  - Schema (metadata): specifies **name of relation**, each **column's name and data type**
    - ▶ e.g., Students(*Sid*: integer, *Sname*: varchar, *Email*: varchar, *Did*: integer, *Gpa*: real)

## *Students*

Sid	Sname	Email	Did	Gpa
53666	Jones	jones@cs	300	3.4
53688	Smith	smith@ece	401	3.2
53650	Smith	smith@ds	502	3.8

- Relational database: a set of relations