

# Entity Integrity

- A set of columns is a (candidate) **key** for a table if:
  - No two distinct rows can have same values in all key fields
  - Is the key containing other key?  $\begin{matrix} \text{Yes} \rightarrow \text{super key} \\ \text{No} \rightarrow \text{primary key (PK)} \end{matrix}$
- Entity integrity
  - Every table must have a **primary key**
  - Primary key values must be **unique** and **not null**

## *Students*

Sid(PK)	Sname	Email	Did	Gpa
53666	Jones	jones@cs	300	3.4
53666	Smith	smith@ece	401	3.2
53650	Smith	smith@ds	502	3.8
[null]	Tom	tom@cs	400	3.5

Not allowed

