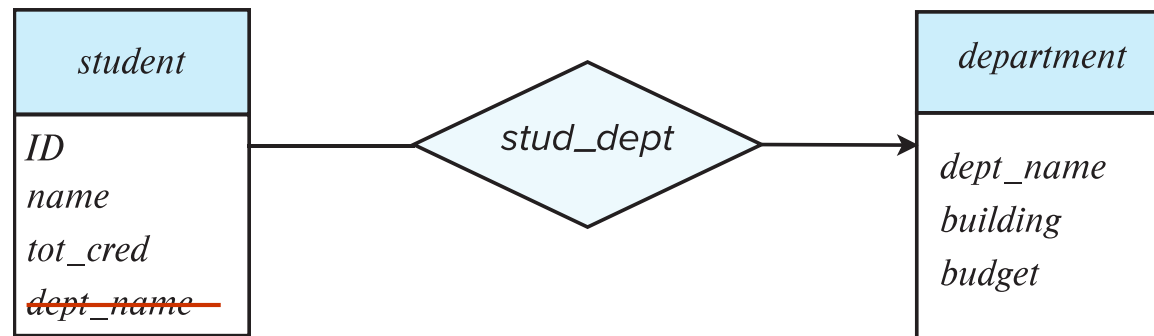




# Redundant Attributes

- Suppose we have entity sets:
  - *student*, with attributes: *ID*, *name*, *tot\_cred*, *dept\_name*
  - *department*, with attributes: *dept\_name*, *building*, *budget*
- We model the fact that each student has an associated department using a relationship set *stud\_dept*
- The attribute *dept\_name* in *student* below replicates information present in the relationship and is therefore redundant
  - and needs to be removed.
- BUT: when converting back to tables, in some cases the attribute gets reintroduced, as we will see later.



(a) Incorrect use of attribute