Referential Integrity Constraints

Specify diagramatically **PERSON** what the primary keys A set of attributes FK in a relation schema R1 are* TrainerPersonId (PERSON) is a foreign key in R1 if...? Weight <u>PersonId</u> R2 has some attribute (FK) R1 (PERSON) Specify diagramatically 1 160 NULL what the foreign keys • Attribute in R2 has to be in are* 2 160 1 the same domain as the primary key of R1. TRAINED_BY • R2 has to reference an existing tuple in R1 or be NULL. **CRUD** PERSON Operations on a Database? Retrievals or Modifications Domain, Entity Integrity, Key, Referential Integrity* R1 (PERSON) 1 160 NULL 2 160 1 Inserting tuple t = Domain **INSERT** <"blah", 160, NULL> $t = \langle NULL, 160, NULL \rangle$ **Entity Integrity** t = <1, 160, NULL> Key t = <3, 160, "blah">Referential Integrity t = <3, 160, 4> Domain Update value of weight to UPDATE Default behavior -"blah" of tuple with personid RESTRICT = 1? Update value of primary key to NULL of tuple with **Entity Integrity** personid = 1? Update value of primary key Key, Referential to 2 of tuple with personid = Integrity DELETE Delete the tuple with CASCADE - DELETE, Referential Integrity personid = 1? SET NULL / DEFAULT