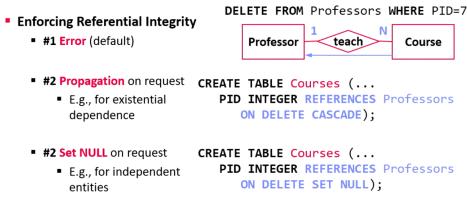
Relational Terminology + Goal: Data Independence + value domain + datatype + set of all possible values? + set of items + relation + set of k attributes + subset of cartesian product over all value domains + tuple + row of elements of relation + cardinality + number of tuples in the relation + rank + number of attributes in the telation + database schema + set of relation schemas and constraints + database + set of actual relations including data + database instance + NULL + value for un-Special semantics for specific operations, e.g., three-value Boolean logic

TRUE OR NULL → TRUE
FALSE OR NULL → NULL
TRUE AND NULL → NULL
FALSE AND NULL → FALSE

known/missing values +

Comparisons WHERE X = NULL WHERE X IS NULL

+ primary key + minimal set of attributes to uniquely identify tuples in relation + unique + not null + minimal + foreign key + reference to primary key in another relation + may be NULL + Referential Integrity + may cause errors when deleting, because tuple may be



+

referenced + solutions +

domain/semantic constraints + constraints of attribute value + unique + not null + between x and y + etc.

[[Database Design]]