Bridge **Relational Data Model**



Purpose

This is a response to the droolers at *Hey* Presto, The Torrid Manifesto, who hilariously claim that the Relational Model can't do this, or SOL can't do that. Quite oblivious to the fact that both are founded on First Order Predicate Calculus, which has no limit.

The alleged "impossible in the RM" is solved by the ordinary knowledge of the *RM*.

The alleged "impossible in the SQL" is solved by the ordinary knowledge of the SQL, and a genuine SOL Platform.

As of 2007, SQL allows a CONSTRAINT to call a Function, which of course has the scope of the set or the database.

The requirement was to fulfil those discussed at TTM. No suggestion that it (the particular model with weird constraints) is correct for any other purpose.

Composer

- · Composer is a subset of Person
- Problems are created by a Composer, not any Person.

Problem

- The notion of an Independent Problem (one that exists without a Composer to create it) is absurd
- The use of surrogates on initially-perceived entities cripples the modelling process: Problem is not an Independent fact
- Thus Problem is Identified by its ComposerId, and a sequence of ProblemNo within that
- The Alternate Key(Name) ensures that each Problem is unique.



Composer 2

Person

Sex

- Somewhat after the discussion, the model was completed to fulfil the full original requirement. Since the second Composer is "rare", an Associative table for Composers (plus a Constraint that calls a Function that limits it to two Composers) is not reasonable.
- A simple CHECK Constraint is required to ensure the Composers are not the same.

Solution

- The ComposerId and the SolverId now appear in each row
- Thus a simple CHECK Constraint can be used, and the Function (required for checking other rows) is eliminated



DDL



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