Relational Data Model

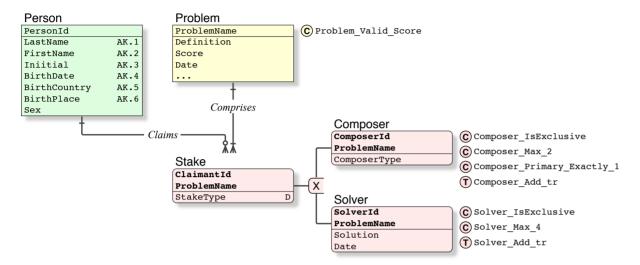


History

Increment 1, Increment 2, Increment 3.

This is Increment 4.

Vitacolonna Model



Requirement

- Database for playing Bridge, for a Bridge club.
- · Track:

Players

Problems, composed, to be solved Composers Solvers

- Service any report request with a single SELECT.
- T Composer_Add_tr
 Xact([+Problem(),]
 +Stake(), +Composer())
- Solver_Add_tr
 Xact(+Stake(), +Solver())

Resolution

> Role ranges over {primary, secondary, solver}.

The Discriminator is then lost. Resolved by:

- adding StakeType{Composer|Solver}.
- adding ComposerType{Primary|Secondary}.

Naming

I have taken liberties, based on my naming standard. The benefits may be obvious. Reading the Predicates should entertain.

RoleName

The cumbersome <Role.PK> is replaced with <Role>. That which it is a RoleName of, is obvious.

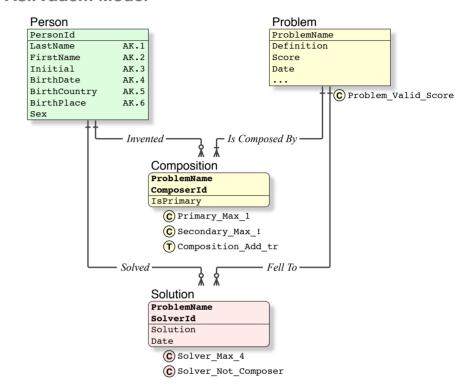
ConstraintName

For brevity the standard prefix of TableName, which is also obvious, is omitted. The content is a name (not a clause), which should be in the expansion below.

Constraint

One constraint per <LogicCondition>, rather than per <LogicClause> or per <Table>, allows each to be enabled discretely.

Asirvadem Model



- © Composition_Primary_Max_1 CHECK Composer.IsPrimary[@ProblemName] NOT EXISTS
- © Composition_Secondary_Max_1
 CHECK Composer.IsPrimary[@ProblemName] EXISTS AND
 CHECK (Composer.IsPrimary[@ProblemName] = 0) NOT EXISTS
- Composition_Add_tr
 Xact([+Problem(),]
 +Composistion())
- © Solver_Max_4 CHECK COUNT(Solution[@ProblemName]) < 4
- © Solver_Not_Composer CHECK Composition[@ProblemName, @SolverId] NOT EXISTS
- T Solution_Add_tr Xact[+Solution{}]



