Data Model Recasting

Envision the **data integration by design** concept as a simple recasting of an entire data model. Every **data model** has a native casting identified mainly by the business keys of the **master data** defined within the data model. These master data entity business keys are available to every **data entity** that is directly or indirectly related to the **master data entities**. The native casting is defined by a few very important data entities. Within each **database** instantiated from these data models, the native data set is consistent and coherent as maintained by the database structure, the database constraints, and the associated application layer. There really is no need to replicate and transform the data set (**ETL**) to support data integration. That was just a bad idea!

The Data Reintegration Methodology is used to recast the entire data model using a few **boundary data entities** that restate the master data of the data model. The original native casting of the data model is still intact but now a **standardized set of master data** is also made available. This standardized set of master data provides new **data access paths** into the data model as well as new access paths to other data models. When these **Data Reintegration** data models are instantiated into databases, the consistency and coherency of the data sets are still maintained, however, now that data is available to other databases as well via the data access paths defined by **commonality constraints** that join databases.

By adding five **boundary data entities** to the data model of figure 1, thirty five new relationships into the data model were created as shown in figure 2. These additional data relationships are also extended into any other Data Reintegration data models as well via **commonality relationships**.

For more details, get you free copy of the Data Reintegration Methodology whitepaper.

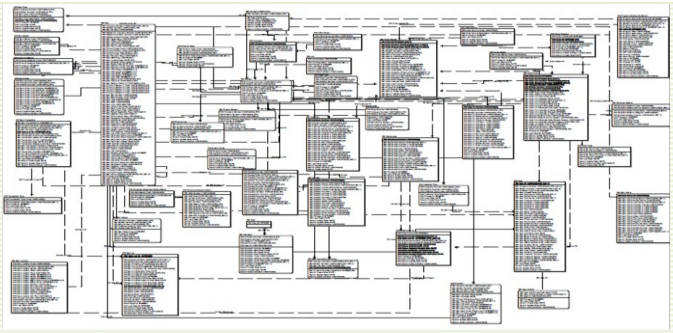

Figure 1: Depicts the data model to be recast.

Figure 1 depicts a data model before enhancement with the Data Reintegration Methodology. This data model supports an actual operational data system.

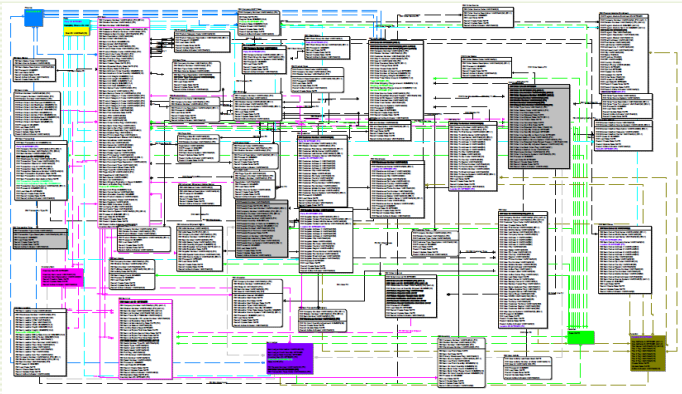

Figure 2: Depicts recasted data model with an integrated data warehouse.

Figure 2 depicts the recasted data model where five boundary data entities (red, dark blue, light blue, green, and gold) have enhanced the master data of the data model and an integrated data warehouse (purple data entity) has been added to support high-level reporting and storage of historical facts.

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