

The Technical Root Cause of Disparate Data

Islands of **disparate data** and **information silos** are very prevalent in our **data architectures**. How did this **data isolation** get into carefully designed data architectures? Most data isolation is an unintended artifact of our current **data modeling** methodology. While there are several other causes for data isolation, this is one that never should have occurred. We have been **designing database** for over 30 years, and for 30 years we have created isolated databases by ignoring even the most fundamental interactions between **data models**. When these data models are instantiated as **databases** that they are not data integration friendly.

Within the Data Reintegration Methodology, we have developed a new type of **entity relationship** we call a **commonality relationship**. Commonality relationships are currently only used to relate data entities from two or more data models. Thus, we now have a relationship to integrate data models. When these enhanced Data Reintegration data models are instantiated into databases and properly populated with data, then referential integrity may be enforced between the enhanced Data Reintegration databases. We refer these foreign key constraints between databases as **commonality constraints**.

These commonality relationships and commonality constraints are of paramount importance to data integration by design. With the commonality constraints between databases, reliable data access paths are provided between multiple databases.

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