Requirement-driven Design and Deployment of Multidimensional and ETL Designs

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High-level information requirements
(Expressed in terms of domain ontology)

Physical-level queries
(Expressed in terms of data sources)

ORE: Integrates each new requirement into the existing DW constructs and produces the unified DW schema that satisfies the entire set of requirements.

CoAl: Integrates ETL flows which answer each new requirement, into the existing ETL process design and produces the unified ETL process that satisfies the entire set of requirements.

GEM: A tool to semi-automatically produce multidimensional (MD) and Extract-transform-load (ETL) conceptual designs from a given set of business requirements (like SLAs) and data source descriptions.

Iterative processes to support the evolution of DW designs.

Further reading:
- Alki Simitsis, Kevin Wilkinson, Petar Jovanovic: xPAD: a platform for analytic data flows. SIGMOD Conference 2013: 1109-1112

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