Model Driven Data Warehouse Automation

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Agenda

• Introduction – The Evolution
• What is Traditional Data Warehousing?
• The Data Warehouse Automation Advantage
• Benefits & Usage
Building (?) EIS

How did you create an EIS application in, say 1988? Well:

- You hired one or more consultants;
- They talked to your business experts;
- Based on their findings they proposed to hire more subcontractors (probably from the same service company);
- They designed an OLAP application and built it.

Is this the way to do it today?

NO, you buy an OLAP tool!!
Building a Datawarehouse

How do you realize a Data Warehouse today? Well:

• You hire one or more consultants;
• They talk to your business experts;
• Based on their findings they propose to hire more subcontractors (probably from the same service company);
• They design a Data Warehouse and build it.

Is this the way you like to do it?

NO, there should be a generic DWH tool!!
Traditional Data Warehousing
Traditional Data Warehousing

Build the Platform
- Complex Data Modelling
- Intensive Data Mart production
- Extensive ETL

Maintain the Platform
- One change affects everything

Result
- Inflexible
- Expensive
- Late releases
- Missed objectives
- Unsatisfied users
- Project failure
Automated Data Warehousing

MODEL-DRIVEN, BEST PRACTICES, CONSISTENT
DWA Advantage

- Increased productivity
- Lower costs
- Optimized and standardized results
- Adaptable to changes
- Automates technical complexity

MODEL-DRIVEN, BEST PRACTICES, CONSISTENT
Model-driven

- BIReady uses the Data Model (ERD)
- Import, Build or Reverse-engineer

Change the Model, BIReady changes the Data Warehouse
The best of 2 worlds

DWA CA ERwin Integration

OEM agreement with CA ERwin
- **Know what data you have**: Create a visual inventory of source and target systems – Reverse Engineering
- **Know what your data means**: Communicate key business requirements between business and IT stakeholders
- **Ensure that your data is consistent**: Build consistent database structures - Forward Engineering

CA ERwin® Data Modeler
CA ERwin Data Modeling

Visualize The Power Of Your Data
On Premise or in the Cloud

Multiple Tools & Applications

Multiple Business Units & Departments

Multiple Databases

Multiple Audiences

Sales
Marketing
Development
R&D
Facilities

Developers
Business Sponsors
DBAs
Data Architects

Spreadsheets
BI Tools
ETL Tools
ERP & CRM Systems
Modeling Tools

DB2
Oracle
SQL Server
Sybase
Teradata
SQL Azure
CA ERwin® Data Modeling

At the Center of Your Data Management Initiatives

- Master Data Management (MDM)
- Cloud or SaaS BI + Data Management
- Business Intelligence + Data Warehousing
- Data Governance
- Application Development
- Data Quality
- Data Management
- ERP Integration
DWA Import properties to be defined. (Attributes, UDP, Relationship, Include Path, Model Filter,...)
ERwin and DWA run a common lifecycle. The lifecycle’s goals are:
1) Driving the DWH design and implementation;
2) Driving the Data Migration project;
3) “A priori” purging and adjusting data models before loading the DB;
4) Creating a model driven “virtuous cycle” to implement BI;
5) Model driven DWH, BI, DBM control centre;
6) ALIGNING DWH AND BUSINESS
The Path of Data

Generic DW ETL
- Integration
- DW Keys
- Change-data Capture (CDC)
- History
- Data Integrity
- Transformations
- Loading
- Logging

Generic DW
- Enterprise DWH
- Data Marts
Benefits Summary

- Think big, start small
- Focus on business, hide complexity
- Prototype, communicate IT and Business
- Optimized, predictable, stable results
- Clear migration path from legacy DW
- Fast turnaround
- Open technology, enforced best practices
- Overall savings of 50% time and cost
- Only 10-15% custom ETL needed

True Agile Business Intelligence
The best of 2 worlds

BIReady CA ERwin Package

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