CU's PSoft SDM – One Year Later

Session #26218

Anaheim, California

Your Presenters

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Overview

Cornell University has now implemented a full set of Data Marts to support Student Administration (CC, AD, FA, SR, SF) according to our EDW strategy. One year after implementation, we will revisit with you our successes, our challenges, our responses and our new initiatives.

Agenda

Project Deliverables
Challenges
Responses
Successes
Demonstration
Q&A

Cornell University

- Main Campus in Ithaca, NY
- Founded 1865
- Both a State & Private Institution
- Undergrad enrollment 13,515
- Graduate enrollment 5,932
- Faculty members 2,633
- Staff employees 11,236



Clock Tower & Sage Chapel taken from Cornell's Statler Hotel

Phytorion, Inc.

- Full enterprise data warehouses
- Area-specific data marts
- Operational & Strategic content
- Integration of any source systems
- Fully customized approach, or
- Packaged data marts



Cornell ERP Environment

PSoft Campus Community HR, Payroll, Benefits Contributor Relations Student Admin (AD, FA, SR, SF) Legacy/Non-PSoft Finance (future - Kuali), Research Admin, etc.

Cornell Data Delivery Environment

Cornell Enterprise Data Warehouse (EDW) Incremental Data Mart development Use Kimball Methodology Leverage existing infrastructure Partner internal and external resources Deliver marts to support new operational applications Use a "business questions to be answered"

Cornell Data Delivery Environment

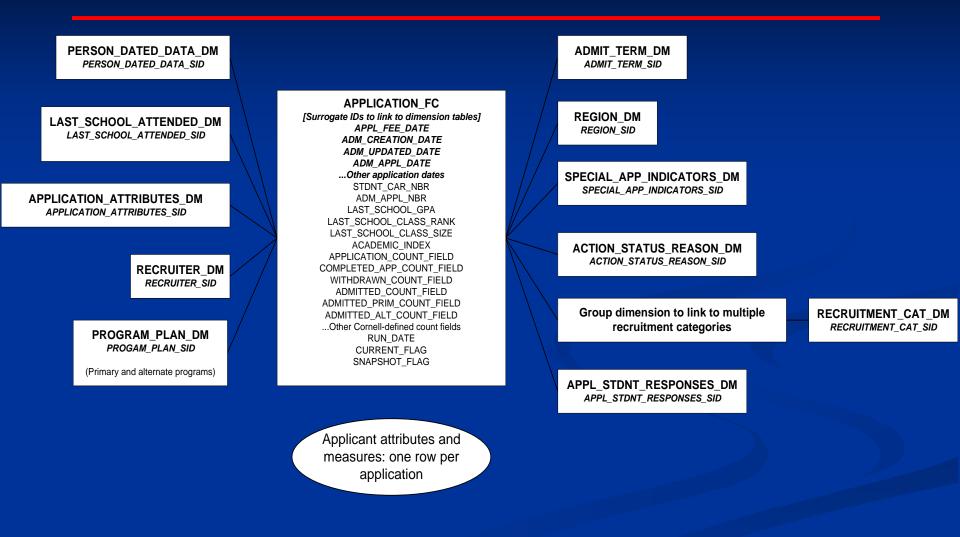
- Servers: Solaris & Windows (plans to migrate to Linux)
- RDBMS: Oracle 10g R2 using RAC (plans to migrate to 11g)
- ETL Tools:
 - Psoft marts use Cognos DataManager v8.4
 - DMTools
 - Legacy marts use PL/SQL, Korn Shell Scripts, etc.

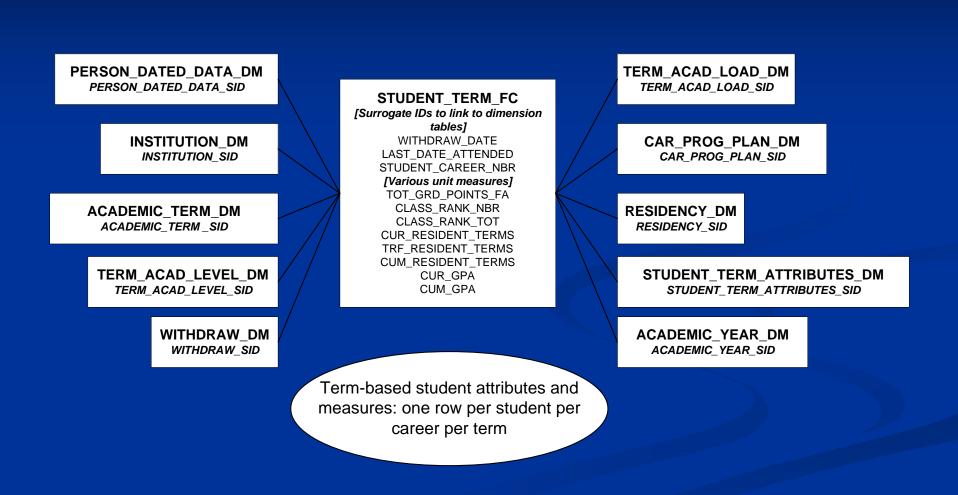
Cornell Data Delivery Environment

Reporting:
 Hyperion/Brio 8.3.2
 CU Dashboard
 OBIEE (Discovery)

Who is this person next to me?

How did we get here?
RDS
STARS Cross-functional
EDW
Recruitment – data training
Custom vs Product





Campus Community Service Indicators (1 model) Student Records Advisors (2 models, 2 reports) •Degree and Honors (2 models, 1 report) •Enrollment and Grades (6 models, 4 reports) Milestones (1 model, 1 report) Students (5 models) Student Groups (4 models) •Terms, Programs and Plans (10 models, 8 reports/extracts) •Transfers and Test Credits (4 models, 1 report)

Student Financials (8 models, 5 reports)

- Credit History
- GL Interface
- Items/Item Lines
- Student Accounts

Financial Aid (4 models) PELL Disbursement & Origination Student Loans/PNotes

Cornell Challenges

Managing user expectations

Developing a support structure

Load time & availability

Cornell Challenge–User Expectations

Managing User Expectations

 Simultaneous implementation with the transactional system

Using star schemas to support operational reporting

Effect of Change

Cornell Response - Support

FDG (Functional Developer Group)

Data Delivery Liaison

TDWI presentation – Sandbox Pilot

Cornell Challenge – Load Time

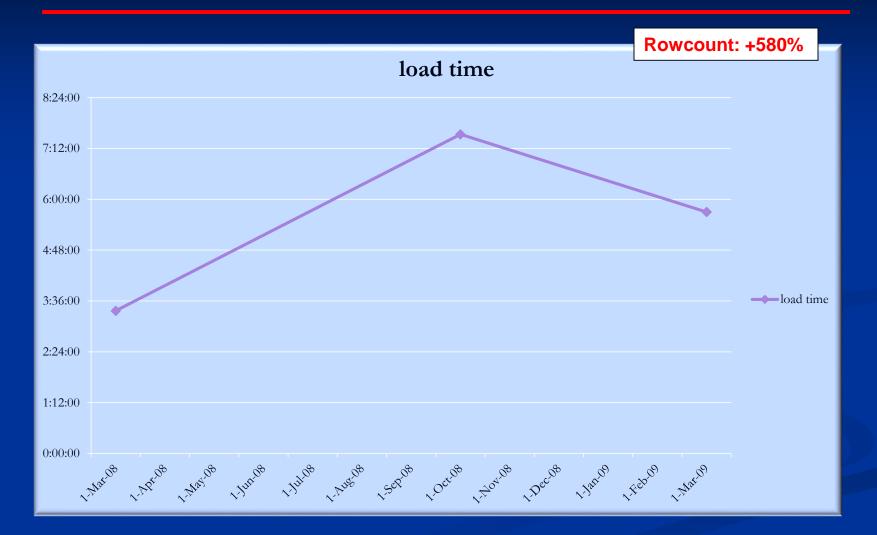


Cornell Response – Load Time

Retreat

- Parallelism in jobs
- PAE/Buffer sizes
- Partitioning
- Upgrade to DataManager 8.4
- Indexing on source data
- Future: Linux, 11g, additional partitioning, conditional jobsteps

Cornell Response – Load Time





Volume of deliverables

Implement production data mart of over 300 tables

Adapted to fit Cornell Project Plan

Parallel development made ongoing operational support possible



Custom vs "Off-the-shelf" approach

Adapted deliverables to CU DMTools environment

Responsive to JINT requirements, CU Mods

In line with overall EDW strategy



Partnership:

 Continuous collaboration and issues/risk management

Pre-implementation on-site visits

Smooth handoff of ownership

Demonstration





Thank You!

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