



DATA WAREHOUSE SERVICE

Introduction

Information Access from <Company Name>

<Company Name> offers comprehensive solutions to information access. PeopleTools provides the foundation with state-of-the-art Internet query, reporting, scheduling and distribution capabilities. EPM provides enterprise reporting and analytic applications such as the Enterprise Warehouse, Balanced Score Card and subject-specific Insight Analytics.

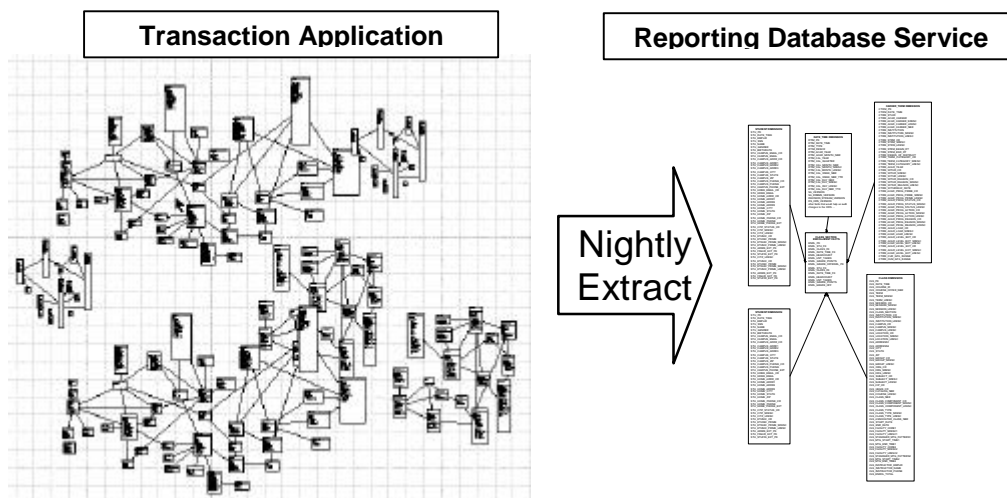
Now <COMPANY NAME> complements these solutions with a low-cost solution to daily, operational reporting – the Data Warehouse Service.

Higher Education Management Reporting Solutions

All modern, comprehensive, relational application systems are designed for data capture, not data reporting. All higher education vendors such as <Company Name>, SCT and Datatel design their data base systems for high-speed, flexible transaction data entry. Databases in these new applications are “normalized.” Normalized databases contain hundreds, sometimes thousands, of relational tables. While this design provides flexible, fast transaction data capture, it makes management reporting quite challenging.

Queries from a single table or a few tables are fast and easy. However, most daily, operational management lists, extracts, queries and reports require data from more than just a few tables. It is very common for management reports to require data from 15- 25 tables! In <Company Name> many of these tables contain unique SQL structures such as Effective Dates, SETIDs and Trees. JOINing 15-25 tables in <Company Name> applications is quite complex and results in a *very slow* query.

It is commonly understood that management reporting will only be fast and easy if data is extracted into an external data structure such as a data mart, report mart, operational data store or data warehouse – also the thinking behind <COMPANY NAME>'s Data Warehouse Service. Every night we extract data from applications and load them into completely separate Data Warehouses, which are designed for fast, easy queries, lists, labels, extracts and reports.



Overview

Key Features

<COMPANY NAME>'s Data Warehouse Service is the first of its kind in higher education. No other vendor offers such a comprehensive solution to reporting and analysis. This is "best of breed" and defines "best practices" for ERP business intelligence. Our Data Warehouses for **Student Administration, HRMS and Contributor**

Relations:

- ✂✂ Provides very fast, easy, interactive web-based reporting and analytics without degrading response on your OLTP transaction system.
- ✂✂ Enables faculty, staff, administrators and analysts to create their own ad-hoc reports, extracts, lists and labels.
- ✂✂ Works very well with *all* industry leading reporting vendors including Cognos, Brio, Crystal Decisions, SAS and SPSS.
- ✂✂ Can read data from SQL Server 2000, Oracle and DB2 transactional databases
- ✂✂ Can be implemented on SQL Server 2000 or Oracle databases running on Intel or Unix servers.
- ✂✂ Can be installed and implemented by <Company Name> Consulting (<COMPANY NAME>) *within 15 working days*.
- ✂✂ Was designed by a team of experienced consultants, strategists and customers.
- ✂✂ *4,000+ data items from Student Administration* Admissions, Campus Community, Academic Records, Student Financials and Financial Aid.
- ✂✂ *1,700+ data items from HRMS* HR, Payroll, Benefits
- ✂✂ *1,000+ data items from Contributor Relations*
- ✂✂ Is *completely refreshed every night* with parameters that control levels of student history.
- ✂✂ Is built with an industry-leading Extract-Transform-Load (ETL) product from Cognos, DecisionStream.
- ✂✂ Is easily and completely customizable to keep pace with changing business requirements.
- ✂✂ Could be extended to work with other <Company Name> applications including HR, Finance and Contributor Relations.
- ✂✂ Could be extended to work with legacy and other applications not from <Company Name>.

Data Warehouse and High-Speed ETL Technology

Fundamentally, the Data Warehouse Service moves data from a normalized transaction database to a denormalized Data Warehouse. It Extracts-Transforms-Loads (ETL) data from one database to another. The ETL "engine" in the reporting service is DecisionStream from Cognos. DecisionStream is very graphic and easy to use. Most importantly it features *extremely fast, memory-resident ETL processing*. In recent tests at a community college, we extracted approximately 30 million rows from 600+ normalized tables, transformed them into denormalized tables and loaded an Data Warehouse with 10.7 million rows – *all in 1 hour 26 minutes*. DecisionStream was running on a 4x700MHz Intel processor with 2 gigabytes of memory.

Technical specifications and white papers on DecisionStream can be found on the Cognos web site

<http://www.cognos.com/products/decisionstream/index.html>

<COMPANY NAME> Consulting Service

<COMPANY NAME>'s reporting solution is a consulting service. It is not a product. Although <COMPANY NAME> is willing to provide ongoing contracted support, to be successful schools need to be able to develop local support resources to keep the reporting service in sync with local challenges and opportunities. A Data Warehouse Administrator needs to be appointed and given formal DecisionStream training in order to be able to apply local modifications and extensions. If it is not possible to provide local support services, the Data Warehouse may not be a good choice for your school.

Data Warehouse and Reporting Tools

All industry leading reporting and analysis tools such as those from Cognos, Brio, Crystal Decisions, SAS and SPSS can be used with the Data Warehouse. <COMPANY NAME> does not include these reporting tools with the consulting service.

[Contacts for More Information](#)

For more information on <COMPANY NAME>'s Data Warehouse Service please contact: