SNOWing Crimson: Harvard HR Analytics and Phytorion

Session #29920

Your Presenters

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Problem Statement

Faced with unprecedented growth in data warehousing demand and continued customer frustration with the time required to develop solutions, Harvard needed to embrace new ways to deliver information to the community

This case study will discuss the challenges Harvard faced and the steps it took to increase customer satisfaction

Early HDW Challenges

- Underfunded data warehouse strategy
- Inability to develop well defined requirements at the time of transaction system implementation
- Poor query response times
- No University wide query tool
- Requests for many report variations with no easy method of delivering them

The HR Analytics (HRA) Project

A pilot project to validate the value of analytics and test an alternate delivery approach

Evolve an existing Excel based application, **S**ome **N**umbers about **O**ur **W**orkforce (SNOW), into a robust analytics application

- Build an extendible SNOW data model incorporating employee demographics, mobility, and turnover information
- Enable users to interact with the data
- Use an outside firm in a strategic capacity

Phytorion, Inc. was brought in to help create an HR Analytics (HRA) data model for Harvard

Project Challenges

- The calculations required to meet the needs of the business were very complex and sophisticated
- HDW's previous experience with external vendors was not stellar
- The functional and technical groups at Harvard were not functioning as a team
- The technical group was initially resistant to different approaches
- The economy collapsed in the early stages of the project

How Phytorion Helped

- Brought strong PeopleSoft, higher education data warehousing experience
- Demonstrated relevant technical competency early
- First worked to gain the trust of all parties involved
- Acknowledged strengths of the technical team but was persistent with a best practices approach
- Tailored the project to Harvard's operating culture
- Valued customer success over contract details

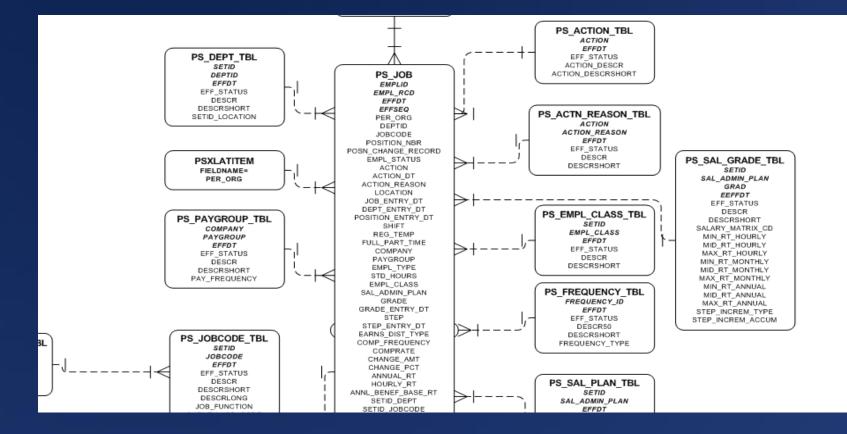
The unwavering commitment from Phytorion and the Harvard Executive Sponsors enabled the project team to work through the series of difficult project challenges

Results

- The partnership between Phytorion, Inc., and Harvard successfully delivered a data model on time and on budget
- HDW learned how to work successfully with an outside firm
- Phytorion was subsequently engaged to expand the SNOW data model by adding employee costing
- The Harvard functional team built a user layer using Qlikview

Demographics
Mobility
Turnover

Reporting from PS Job



• Demographics

- Bio/demo attributes (age, gender, ethnicity)
- Job attributes (jobcode, EEO class, position)
- Administrative rollups (department, unit, etc)
- Multiple-counting or distinct counts
- Headcount, FTE, salary, compa ratio

• Mobility

- Complex logic due to definitions of mobility
- Analysis by same attributes as demographics
- Comparison of 'from' and 'to' attributes of job
- Counts of types of mobility transactions (hires, promotions, etc)
- Analysis of metrics such as from and to salary, % salary change, FTE change

• Sourcing doc/Business Reqs doc

• Turnover

- Like mobility, complex calcs involving comparisons of multiple rows of data
- Analysis by same attributes as demographics
- Comparison of 'from' and 'to' attributes of job

Costing

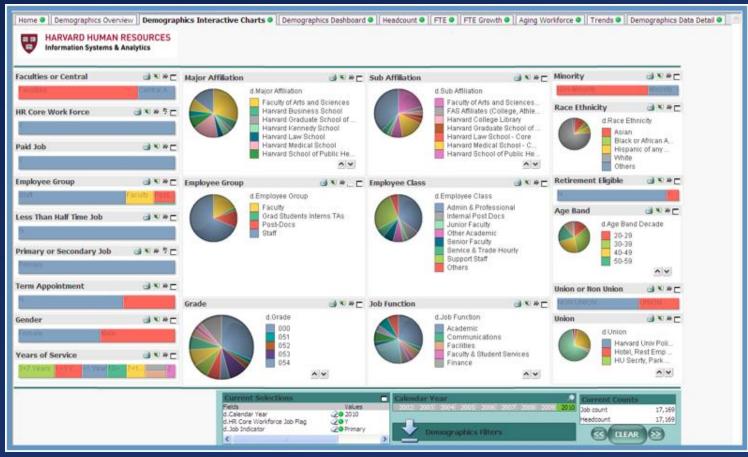
- After the success of the HR Analytics, job costing was the next key area of analysis
- Queries were complex because of the different levels at which job costing could be assigned
- Metrics include annual salary, FTE salary, FTE
- Analysis by costing attributes (chart of accounts breakdowns) and fund categories such as endowed, restricted/unrestricted, sponsorship

Qlikview Demographics Overview

Home Demographics Overview Demographics Interactive Charts Demographics Dashboard Headcount FTE FTE Growth Aging Workforce Trends Demographics Data Detail
Welcome to the HR Analytics Demographics Dashboard
This dashboard allows users to look at a wide range of data elements about all of Harvard University employees. The
data are collected as a snapshot of the workforce at the end of each calendar year.
Demographics include information about the employee and the position(s) they hold:
Employee Characteristics: Age Band Gender Minority, Race and Ethnicity
Job Characteristics: Affiliation Employee Class HR Core Workforce Job Function Less than Half-Time (LHT) position Paid or Non-Paid position Paid or Non-Paid position Primary or Secondary position Pay grade Term appointment Note: Definitions for terms such as HR Core Workforce are available under the help symbol — the question mark. Also Note: Other fields are available as filters (for instance: job family, union, job campus, FLSA status, etc.) To select one of these option, double-click on the "Demographics Filters" button.
Methodology:
Data Source: The data are refreshed from the Harvard Data Warehouse. Data Selection Criteria:

Inclusions: All active employees who have a paid or a non-paid position. (Note: previously, in the Demographics Workbooks, only <u>paid</u> positions were shown.) Exclusions: Employees on long-term disability.

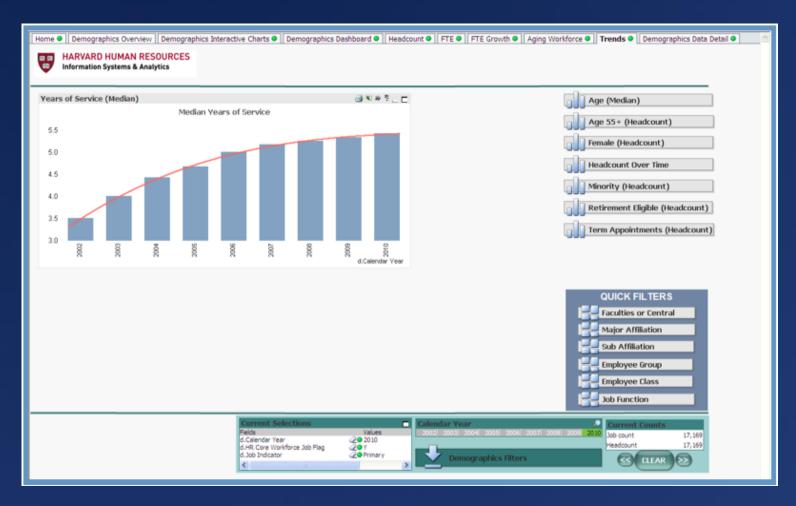
Demographics Interactive Charts



Demographics Dashboard

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	Harvard Medical School at	2,970	2,872.55	32.4%	50	18.3%	9.0%	Employees by Employee Class
	Harvard School of Public Health@	1,367	1,280.85	29.7%	37	17.0%	9.2%	900
	Harvard Business School &	1,022	979.81		41	16.5%	9.7%	
	Harvard Kennedy Schoolia:	725	686.08	18.8%	41	22.2%	11.6%	
	Harvard Law School a	705	667.60	15.9%	41	21.7%	13.0%	
	Harvard Graduate School of Education (i)	455	410.22		41	20.2%	9.9%	Active FTE 🛛 🖼 🔍 🐬 🗌 🗖
	Harvard Graduate School of Designiti	212	183.17		+6	23.6%	11.3%	
	School of Engineering & Applied Sciences@	164		26.2% man	45	21.3%	14.6%	47.000
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	Harvard University Art Museums	156		16.0% -	46		11.5%	
	VP General Counselia	143		21.0%	43	16.1%	7.0%	
	Harvard Human Resources@	131		9.9%	43	13.0%	3,1%	
	Harvard University Library Agencies (HSA, HUECU, LASPAL/)	116		11.2%	40	10.6%	1.8%	
	VP Public Affairs and Communications #	66		31.0%	40	10.6%	3.0%	0 1
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Demographics Trends



Questions?

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