

Just Do It! Building a Student Data Warehouse at the University of Houston

**Presented at TAIR 2015 by
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Office of Institutional Research**

Welcome to the Powerhouse.

UNIVERSITY of HOUSTON

University of Houston

- 40,914 students
- 12 colleges
- 111 bachelors, 121 masters, 47 doctoral, and 3 professional programs
- 9,238 degrees awarded annually



Outline

- Why Data Warehouse?
- Decisions for DW Implementation
- Model Schema
- Type of Data and Tables
- Data Validation Process
- User Access
- Documentation and Training
- Reports Demonstration

Why a Data Warehouse?

- UH Finance data first in 2007 then student data in 2009
- Longitudinal outlook and analysis of student admissions and enrollment data
- One source of data for the truth
- Easily accessible historical trends of data

Why Data Warehouse?

- Options for data view or query:
 - IR Statistical Handbook
 - PeopleSoft Query Tool
 - Reporting Tables
 - Dashboard
- Collaboration between Institutional Research and the Data Warehouse team in IT

Decisions for DW Implementation

- Data and reporting needs of the business user
- Source Data: PeopleSoft, CB Reports, Derived fields
- Time period of data in the DW
- Choice of schema model

Decisions for DW Implementation

- Frequency of data capture each semester - snapshots/key dates
- Capture changes in major/department hierarchy for trending
- Accessing the DW tables by users
- Data for UH Main campus only

User Access

- Data Warehouse is license restricted
- Shared between Student, Finance and Research DW users
- Each college is given two licenses
- Power user - Hyperion Interactive Reporting Studio tool should be installed on user's machine

Model Schema

- The initial proposed design was star schema using facts and dimensions
- The current schema is a normalized model
- This minimized redundancy and easy to maintain
- Key fields in tables

Snapshots

- Pulled on key dates in a semester
- Enrollment and admission tables have the snapshot date
- Enrollment tables 9 snapshots
- Admission snapshots are weekly

Enrollment Tables Snapshots

- Fall 2013 Semester

Snapshot	Period Description	Capture Date
PFC	ONE WEEK PRIOR FIRST CLASS DAY	8/19/2013
FCD	FIRST CLASS DAY	8/26/2013
CEN	CENSUS	9/11/2013
TCD	TWENTIETH CLASS DAY	9/26/2013
LDD	LAST DROP DATE	11/1/2013
TED	TERM END DT	12/20/2013
GD1	GRADE DT 1	1/10/2014
GD2	GRADE DT 2	2/9/2014
FGD	FINAL GRADE DT	3/24/2014

Admissions Tables Snapshots

- Fall 2014 Admissions

Snapshot	Period Description	Capture Date
WK1	WEEK 1	9/8/2013
WK10	WEEK 10	11/10/2013
WK20	WEEK 20	1/19/2014
WK30	WEEK 30	3/30/2014
WK40	WEEK 40	6/8/2014
WK50	WEEK 50	8/17/2014
WK57	WEEK 57	10/5/2014

Data Warehouse Tables

- CB tables: Data from Fall 2007 to present
- Setup tables: Facilitates DW functionality
- Enrollment tables: Data from Summer 2000 to present
- Admissions tables: Data from Fall 2010 to present
- Matrix tables: Maps latest organizational hierarchy
- Retention Tables: Retention & Graduation data for specific cohorts

Student Data Warehouse Tables

Setup Tables

Matrix Tables

Admissions Data

Applicant information
Test Scores
Admissions Decisions

Course/Class Tables

Student Class Enrollment

Enrolled Student Data

Demographics
Major, College, Department
Academic Performance
Degrees

Certified CB Data

Student
Graduation
Class
Faculty

**Undergraduate Retention and
Graduation**

FTIC
Transfer

Data Validation Process

- Compare DW vs IR office data
- Frequency counts of different fields and look at differences
- CB tables - counts should have exact match
- Enrollment and Admissions tables - close match
- If large discrepancy, understand the difference

Documentation & Power User Training

- Hyperion Interactive Reporting Studio tool
- Data Warehouse tables
- Examples for users to work
- Work Sessions

Reports Demonstration

Oracle Enterprise Performance Management System Workspace, Fusion Edition

User Name:

Password:

Log On



UNIVERSITY of HOUSTON

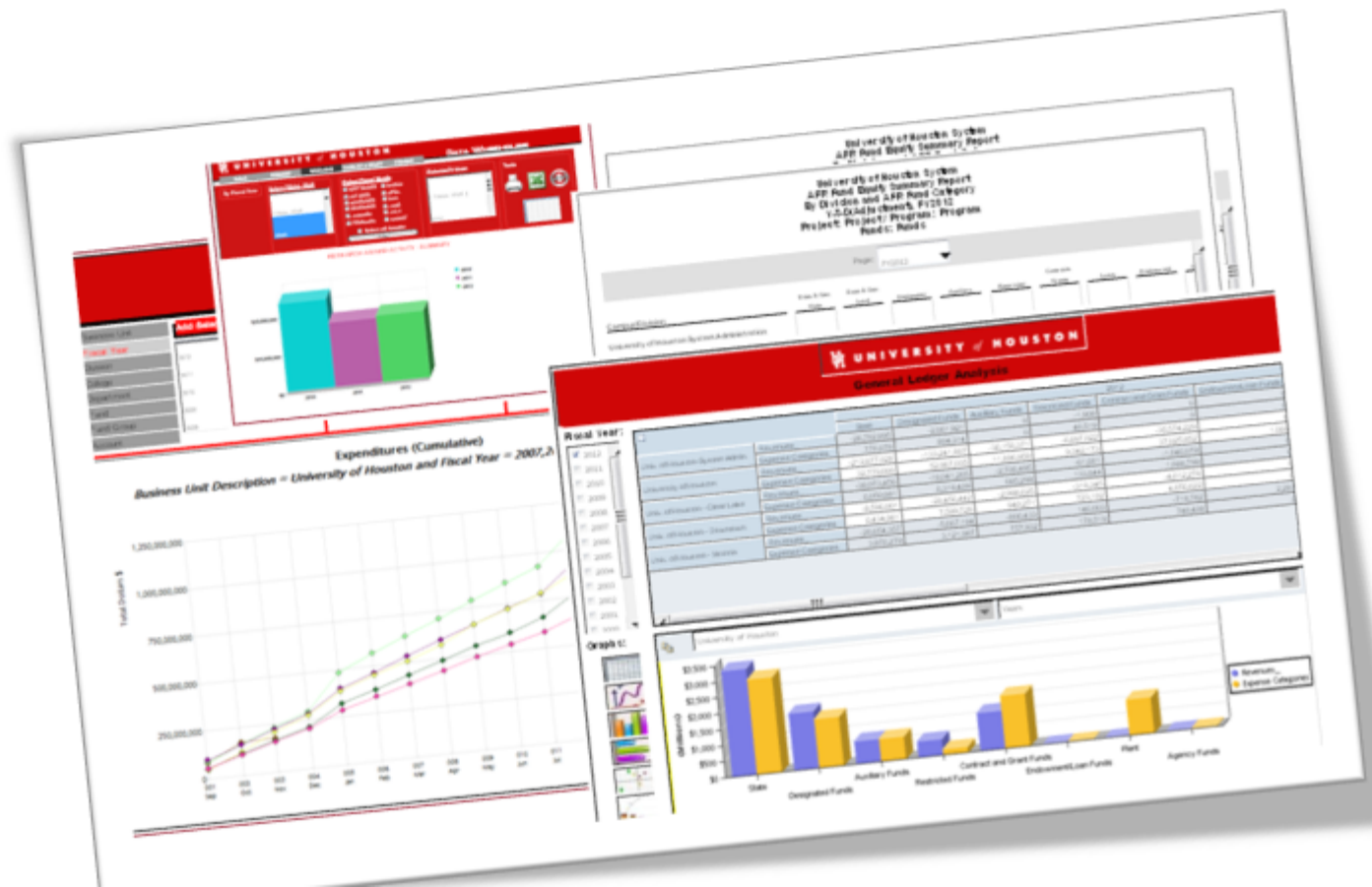
DATA WAREHOUSE

INFORMATION ON:

- Academic
- Research
- Human Resources
- Finance

Welcome to EPM 11

We have recently upgraded from Oracle Hyperion 9 to Oracle Enterprise Performance Manager 11. This version provides the same data and reports as the previous one but in a faster, more reliable environment.



DATA WAREHOUSE REPORTS

UNIVERSITY REPORTS

Student Enrollment

Semester Credit Hours

Graduation Statistics

Faculty Statistics

Performance Reports

Financial Reports

COLLEGE & DEPARTMENTAL REPORTS

Architecture

Business

Education

Engineering

Hotel & Restaurant Management

Law

Liberal Arts & Social Sciences

Natural Science & Math

Optometry

Pharmacy

Social Work

Technology

Exploratory Studies

Create Custom Reports

- Sections
- Headcount by Level, Gender, and Ethnicity
- Average Age by Level, Gender, and Ethnicity
- Enrollment Trends by Levels
- Enrollment Trends by Levels, Full/Part Time
- Enrollment Trends by Ethnicity and Gender
- New and Continuing Students
- FTIC Enrollment Trends
- UGRD Transfer Enrollment Trends
- In-State/Out-of-State Residency
- In-State Residency Enrollment
- Out-of-State Residency Enrollment
- International Residency Enrollment

/Student/IR/Reports/STU_SH_University_Enrollment



Semester

STUDENT DEMOGRAPHIC HEADCOUNT

EXPORT to/as... ▾

All Students ▾

Total Headcount by Classification, Gender, & Ethnicity

Fall 2014

		African American	Asian American	Hawaiian/ Pacific Islander	Hispanic	International	Multiracial	Native American	Unknown	White	Total
Freshman	Female	333	639	2	744	130	102	1	22	504	2,477
	Male	252	746	13	813	180	112	2	23	735	2,876
	Subtotal	585	1,385	15	1,557	310	214	3	45	1,239	5,353
Sophomore	Female	390	679	8	1,049	103	130	7	28	709	3,103
	Male	344	737	14	921	118	105	3	20	869	3,131
	Subtotal	734	1,416	22	1,970	221	235	10	48	1,578	6,234
Junior	Female	522	822	9	1,504	180	154	1	30	1,130	4,352
	Male	396	892	11	1,349	193	108	2	31	1,188	4,170
	Subtotal	918	1,714	20	2,853	373	262	3	61	2,318	8,522
Senior	Female	670	1,143	9	1,813	291	182	7	52	1,563	5,730
	Male	526	1,209	20	1,727	266	166	10	41	1,918	5,883
	Subtotal	1,196	2,352	29	3,540	557	348	17	93	3,481	11,613
Post-Baccalaureate	Female	69	119	1	137	51	20		9	222	628
	Male	70	142	1	98	33	19	1	8	315	687
	Subtotal	139	261	2	235	84	39	1	17	537	1,315
Masters	Female	268	179	1	264	557	35	1	23	674	2,002
	Male	134	212	1	219	795	32	2	41	683	2,119
	Subtotal	402	391	2	483	1,352	67	3	64	1,357	4,121
Doctoral	Female	89	67	1	100	401	15	1	3	328	1,005
	Male	35	52	1	82	676	9		4	315	1,174
	Subtotal	124	119	2	182	1,077	24	1	7	643	2,179
Law	Female	27	49		51	18	6	4	15	172	342
	Male	12	27		59	11	8	5	12	246	380



STUDENT DEMOGRAPHIC HEADCOUNT

Semester

All Students

Total Headcount by Classification, Gender, & Ethnicity

Fall 2014

Filter: Strm Descr

Show Values

Options

Not = Equal

Values

- Fall 2007
- Fall 2008
- Fall 2009
- Fall 2010
- Fall 2011
- Fall 2012
- Fall 2013
- Fall 2014
- Spring 2008

Buttons: Help, Set, Ignore, Cancel

Freshman

Sophomore

Junior

Senior

Post-Baccalaureate

Masters

	National	Multiracial
	130	102
	180	112
	310	214
	103	130
	118	105
	221	235
	180	154
	193	108
	373	262
	291	182
	266	166
	557	348
	51	20
	33	19
	84	39
	557	35
	795	32
	1 352	67

STUDENT DEMOGRAPHIC HEADCOUNT

EXPORT to/as...

CSV

Excel

?

al Headcount by Classification, Gender, & Ethnicity

Fall 2014

	Hawaiian/ Pacific Islander	Hispanic	International	Multiracial	Native American	Unknown	White	Total
639	2	744	130	102	1	22	504	2,477
746	13	813	180	112	2	23	735	2,876
385	15	1,557	310	214	3	45	1,239	5,353
679	8	1,049	103	130	7	28	709	3,103
737	14	921	118	105	3	20	869	3,131
416	22	1,970	221	235	10	48	1,578	6,234
822	9	1,504	180	154	1	30	1,130	4,352
892	11	1,349	193	108	2	31	1,188	4,170
714	20	2,853	373	262	3	61	2,318	8,522
143	9	1,813	291	182	7	52	1,563	5,730
209	20	1,727	266	166	10	41	1,918	5,883
352	29	3,540	557	348	17	93	3,481	11,613
119	1	137	51	20		9	222	628
142	1	98	33	19	1	8	315	687
261	2	235	84	39	1	17	537	1,315
138	1	221	57	25	1	22	271	2,222

- Sections
- Headcount by Level, Gender, and Ethnicity
- Average Age by Level, Gender, and Ethnicity
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- Out-of-State Residency Enrollment
- International Residency Enrollment



Semester

STUDENT ENROLLMENT HEADCOUNT TRENDS

All Levels College

**Student Semester Headcount
By Classification**

	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014
Freshman	6,184	6,215	5,303	4,539	5,353
Sophomore	6,189	6,346	6,797	6,306	6,234
Junior	7,314	7,500	8,293	8,136	8,522
Senior	9,691	10,391	10,974	11,419	11,613
Post-Baccalaureate	1,310	1,312	1,393	1,306	1,315
Masters	4,537	4,499	4,390	4,197	4,121
Doctoral	1,787	1,892	1,997	2,061	2,179
Law	856	809	764	732	722
Pharmacy	475	453	427	446	459
Optometry	409	403	409	398	396
Total	38,752	39,820	40,747	39,540	40,914

- Sections
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- Out-of-State Residency Enrollment
- International Residency Enrollment



Semester

STUDENT ENROLLMENT HEADCOUNT TRENDS

- All Levels
 - Career (U/G)
 - 4 Levels (U/PB/G/SP)
 - 5 Levels (U/PB/M/D/SP)
- College

**Student Semester Headcount
By Classification**

	Fall 2010	Fall 2011	Fall 2012	Fall 2013
Freshman	6,184	6,215	5,303	4,539
Sophomore	6,189	6,346	6,797	6,306
Junior	7,314	7,500	8,293	8,136
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Masters	4,537	4,499	4,390	4,197
Doctoral	1,787	1,892	1,997	2,061
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Total	38,752	39,820	40,747	39,540

[Return to the Main Menu](#)

University Performance Reports

[Undergraduate SCH
Attempted/Completed](#)

[Retention & Graduation](#)

- Sections
- Graduation Retention Menu



STUDENT RETENTION AND GRADUATION

First-Time in College Students (FTIC)

Full-Time, Degree Seeking

Additional Groups

Transfer Students

Full-Time, Degree Seeking with 60 Transfer Hours

Additional Transfer Groups

- Sections
- Graduation Retention Menu
- FTIC FT Degree Seeking
- FTIC FT Degree Seeking by Gender
- FTIC FT Degree Seeking by Ethnicity
- FTIC FT Degree Seeking by Gender and Ethnicity
- FTIC FT Degree Seeking by SAT Score
- FTIC FT Degree Seeking by ACT Score
- FTIC FT Degree Seeking by High School Quartile
- FTIC FT Degree Seeking by Percentile Range
- FTIC FT Degree Seeking by Top 25 Percentile
- FTIC FT Degree Seeking by Top 20 Percentile
- FTIC FT Degree Seeking by Top 15 Percentile
- FTIC FT Degree Seeking by Top 10 Percentile



Report Parameters

STUDENT RETENTION AND GRADUATION

EXPORT to/as...

Return to Retention/G

First-Time in College, Full-Time, Degree Seeking Students

		Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014
FTIC Fall 2008	Enrolled	3,486	2,764	2,250	1,991	1,300	523	196
	Not Enrolled		722	1,231	1,439	1,549	1,612	1,613
	Cumulative Graduation		0	5	56	637	1,351	1,677
	Retention Rate		79.3%	64.5%	57.1%	37.3%	15.0%	5.6%
	Cumulative Graduation Rate		0.0%	0.1%	1.6%	18.3%	38.8%	48.1%
FTIC Fall 2009	Enrolled		3,100	2,529	2,099	1,867	1,195	468
	Not Enrolled			571	999	1,188	1,294	1,342
	Cumulative Graduation			0	2	45	611	1,290
	Retention Rate			81.6%	67.7%	60.2%	38.5%	15.1%
	Cumulative Graduation Rate			0.0%	0.1%	1.5%	19.7%	41.6%

Document



Sections



Graduation Retention Menu



FTIC FT Degree Seeking



FTIC FT Degree Seeking by Gender



FTIC FT Degree Seeking by Ethnicity



FTIC FT Degree Seeking by Gender and Ethnicity



FTIC FT Degree Seeking by SAT Score



FTIC FT Degree Seeking by ACT Score



FTIC FT Degree Seeking by High School Quartile



FTIC FT Degree Seeking by Percentile Range



FTIC FT Degree Seeking by Top 25 Percentile



FTIC FT Degree Seeking by Top 20 Percentile



FTIC FT Degree Seeking by Top 15 Percentile



FTIC FT Degree Seeking by Top 10 Percentile

Report Parameters

STUDENT RETENTION AND GRADUATION

EXPORT to/as... ▾

[Return to Retention/Graduation](#)
**First-Time in College, Full-Time, Degree Seeking Students
By Gender**

		Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	
FTIC Fall 2008	Female	Enrolled	1,770	1,430	1,189	1,073	660	228	81
		Not Enrolled		340	580	667	720	747	737
		Cumulative Graduation		0	1	30	390	795	952
	Retention Rate		80.8%	67.2%	60.6%	37.3%	12.9%	4.6%	
	Cumulative Graduation Rate		0.0%	0.1%	1.7%	22.0%	44.9%	53.8%	
	Male	Enrolled	1,716	1,334	1,061	918	640	295	115
Not Enrolled			382	651	772	829	865	876	
Cumulative Graduation			0	4	26	247	556	725	
Retention Rate			77.7%	61.8%	53.5%	37.3%	17.2%	6.7%	
Cumulative Graduation Rate			0.0%	0.2%	1.5%	14.4%	32.4%	42.2%	
FTIC Fall 2009		Female	Enrolled		1,567	1,276	1,080	965	578
	Not Enrolled				291	485	573	612	629
	Cumulative Graduation				0	2	29	377	749
	Retention Rate			81.4%	68.9%	61.6%	36.9%	12.1%	
	Cumulative Graduation Rate			0.0%	0.1%	1.9%	24.1%	47.8%	
	Male	Enrolled		1,533	1,253	1,019	902	617	279
Not Enrolled				280	514	615	682	713	
Cumulative Graduation				0	0	16	234	541	
Retention Rate				81.7%	66.5%	58.8%	40.2%	18.2%	
Cumulative Graduation Rate				0.0%	0.0%	1.0%	15.3%	35.3%	
FTIC Fall 2010		Female	Enrolled			1,649	1,364	1,154	1,034
	Not Enrolled					285	492	582	640
	Cumulative Graduation					0	3	33	451
	Retention Rate				82.7%	70.0%	62.7%	33.8%	
	Cumulative Graduation Rate				0.0%	0.2%	2.0%	27.3%	
	Male	Enrolled			1,804	1,435	1,147	1,033	658
Not Enrolled					369	657	754	813	

STUDENT ENROLLMENT HEADCOUNT & SEMESTER CREDIT HOURS
Step by Step Instructions:
[Show Instructions on New Tab](#)
[Show Instructions in New Window](#)

You will be prompted to select: Semester(s) and College(s).

[Click Here to Begin Session](#)
Facts - Numeric Fields for Reporting:

 Headcount
 Semester Credit Hours (SCH)

Fields to Populate Rows and Columns of the Output Table:

 Semester,
 College,
 Department,
 Plan,
 Gender,
 Ethnicity(Diversity)
 Classification,
 Level2 (UGRD/GRAD),
 Level4 (UGRD,PB,GRAD,SP),
 Level5 (UG/PB/MS/DR/SP),
 Academic Career,
 FT PT Federal,
 FT PT State,
 Residency Group (Harris County, Adj Counties,
 Other Texas Counties,
 Out-of-State, International),
 Residency Status (In-State, Out-of-State, International),
 County,
 State,
 Country,
 Cohort Group
 FTIC Flag
 Degr FTIC Flag (Degree-seeking),
 FT Degr FTIC Flag (Full-Time Degree-seeking),
 UG transfer Flag,
 New Grad/SP Flag,
 Transfer 60-Hrs Flag,
 Fall FTIC Flag.

[Return to List of Reports](#)
Sample Table:

	Fall 2011		Fall 2012		Fall 2013		Fall 2014	
	Headcount	SCH	Headcount	SCH	Headcount	SCH	Headcount	SCH
Freshman	6,215	80,809	5,303	69,836	4,539	61,226	5,353	74,167
Sophomore	6,346	77,086	6,797	82,588	6,306	77,828	6,234	76,972
Junior	7,500	89,581	8,293	98,613	8,136	97,539	8,522	102,337
Senior	10,391	120,306	10,974	126,336	11,419	131,457	11,613	134,409
Post-Bacc	1,312	10,098	1,393	10,961	1,306	10,059	1,315	10,287.5
Masters	4,499	38,144	4,390	36,623	4,197	35,655.5	4,121	35,220
Doctoral	1,892	16,107	1,997	17,126	2,061	17,717	2,179	18,598
Law	809	10,411	764	10,246	732	9,839	722	9,707.5
Opt	403	7,458	409	7,536	398	7,314	396	7,335
Pharm	453	6,697	427	6,117	446	6,401	459	6,576
Total	39,820	456,697	40,747	465,982	39,540	455,035.5	40,914	475,609

STUDENT ENROLLMENT HEADCOUNT & SEMESTER CREDIT HOURS

Filter: Semester ✖

Show Values | Custom Values | Custom SQL

Options

Include Nulls

Not = Equal ▼

Values

Fall 2007

Fall 2008

Fall 2009

Fall 2010

Fall 2011

Fall 2012

Fall 2013

Fall 2014

Spring 2008

Help Set Ignore Cancel

[Click Here to Begin Session](#)

12	Fall 2013		Fall 2014		
	SCH	Headcount	SCH	Headcount	SCH
	69,836	4,539	61,226	5,353	74,167
	82,588	6,306	77,828	6,234	76,972
	98,613	8,136	97,539	8,522	102,337
	126,336	11,419	131,457	11,613	134,409
	10,961	1,306	10,059	1,315	10,287.5
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				455,035.5	40,914
					475,609

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STUDENT ENROLLMENT HEADCOUNT & SEMESTER CREDIT HOURS

Filter: College ✕

[Show Values](#) | [Custom Values](#) | [Custom SQL](#)

Options

Include Nulls

Not = Equal ▼

Values

- Architecture, College of
- Business, Bauer College of
- Education, College of
- Engineering, College of
- Exploratory Studies
- Hotel & Restaurant Mgt, Col of
- Law, College of
- Lib Arts & Soc Sci, Coll of
- Nat Sciences & Math, Col of

Help Set Ignore Cancel

Click Here to Begin Session

	Fall 2013		Fall 2014		
SCH	Headcount	SCH	Headcount	SCH	
69,836	4,539	61,226	5,353	74,167	
82,588	6,306	77,828	6,234	76,972	
98,613	8,136	97,539	8,522	102,337	
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					455,035.5
					40,914
					475,609

- Document
- /Student/IR/Analytics/STU_ANL_Student_Reports_Custom
- Sections
- List of Reports
 - Student Enrollment Headcount & SCH
 - Course Based Semester Credit Hours
 - Graduation Statistics
 - Faculty Statistics
 - Student Enrollment Headcount & SCH Pivot

	Fall 2011		Fall 2012		Fall 2013		Fall 2014	
	Headcount	SCH	Headcount	SCH	Headcount	SCH	Headcount	SCH
Freshman	6,215	80,809	5,303	69,836	4,539	61,226	5,353	74,167
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Junior	7,500	89,581	8,293	98,613	8,136	97,539	8,522	102,337
Senior	10,391	120,306	10,974	126,336	11,419	131,457	11,613	134,409
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Masters	4,499	38,144	4,390	36,623	4,197	35,655.5	4,121	35,220
Doctoral	1,892	16,107	1,997	17,126	2,061	17,717	2,179	18,598
Opt	403	7,458	409	7,536	398	7,314	396	7,335
Law	809	10,411	764	10,246	732	9,839	722	9,707.5
Pharm	453	6,697	427	6,117	446	6,401	459	6,576
Total	39,820	456,697	40,747	465,982	39,540	455,035.5	40,914	475,609

Document /Student/IR/Analytics/STU_ANL_Student_Reports_Custom

- Sections**
- List of Reports
 - Student Enrollment Headcount & SCH
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 - Graduation Statistics
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- Catalog List**
- ENROLLMENT STATISTICS DATA (Q: STUDENT ENROLLMENT & SCH)

	Fall 2011		Fall 2012		Fall 2013		Fall 2014	
	Headcount	SCH	Headcount	SCH	Headcount	SCH	Headcount	SCH
Freshman	6,215	80,809	5,303	69,836	4,539	61,226	5,353	74,167
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Junior	7,500	89,581	8,293	98,613	8,136	97,539	8,522	102,337
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Post-Bacc	1,312	10,098	1,393	10,961	1,306	10,059	1,315	10,287.5
Masters	4,499	38,144	4,390	36,623	4,197	35,655.5	4,121	35,220
Doctoral	1,892	16,107	1,997	17,126	2,061	17,717	2,179	18,598
Opt	403	7,458	409	7,536	398	7,314	396	7,335
Law	809	10,411	764	10,246	732	9,839	722	9,707.5
Pharm	453	6,697	427	6,117	446	6,401	459	6,576
Total	39,820	456,697	40,747	465,982	39,540	455,035.5	40,914	475,609

Facts

Headcount
SCH

Rows

Classification

Columns

Semester

	Fall 2011		Fall 2012		Fall 2013		Fall 2014	
	Headcount	SCH	Headcount	SCH	Headcount	SCH	Headcount	SCH
Freshman	6,215	80,809	5,303	69,836	4,539	61,226	5,353	74,167
Sophomore	6,346	77,086	6,797	82,588	6,306	77,828	6,234	76,972
Junior	7,500	89,581	8,293	98,613	8,136	97,539	8,522	102,337
Senior	10,391	120,306	10,974	126,336	11,419	131,457	11,613	134,409
Post-Bacc	1,312	10,098	1,393	10,961	1,306	10,059	1,315	10,287.5
Masters	4,499	38,144	4,390	36,623	4,197	35,655.5	4,121	35,220
Doctoral	1,892	16,107	1,997	17,126	2,061	17,717	2,179	18,598
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Facts

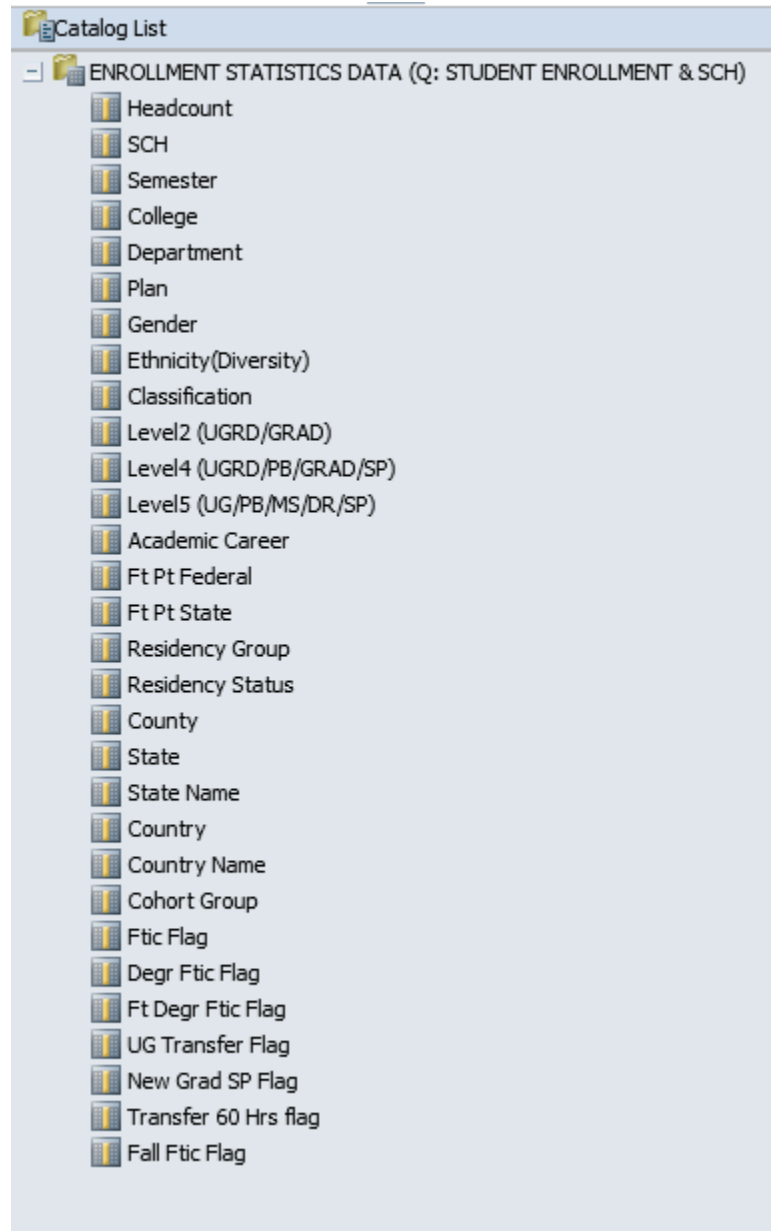
- Headcount
- SCH

Rows

- Classification

Columns

- Semester



- Sections**
- List of Reports
 - Student Enrollment Headcount & SCH
 - Course Based Semester Credit Hours
 - Graduation Statistics
 - Faculty Statistics
 - Student Enrollment Headcount & SCH Pivot

- Catalog List**
- ENROLLMENT STATISTICS DATA (Q...
 - Headcount
 - SCH
 - Semester
 - College
 - Department
 - Plan
 - Gender
 - Ethnicity(Diversity)
 - Classification
 - Level2 (UGRD/GRAD)
 - Level4 (UGRD/PB/GRAD/SP)
 - Level5 (UG/PB/MS/DR/SP)
 - Academic Career
 - Ft Pt Federal
 - Ft Pt State
 - Residency Group
 - Residency Status
 - County
 - State
 - State Name

		Fall 2011		Fall 2012		Fall 2013		Fall 2014	
		Headcount	SCH	Headcount	SCH	Headcount	SCH	Headcount	SCH
Freshman	African_Ame	955	12,440	731	9,502	514	6,821	585	8,136
	American_In	11	141	6	80	3	40	3	45
	Asian	1,499	19,610	1,278	17,174	1,132	15,435	1,385	19,556
	Hawaiiin_Pac	22	289	15	206	14	192	15	203
	Hispanic	1,738	22,274	1,503	19,373	1,377	18,206	1,557	21,173
	Internationa	262	3,161	254	3,264	232	3,072	310	4,119
	Multiracial	216	2,848	201	2,686	166	2,261	214	2,997
	Unknown	27	357	32	416	38	537	45	638
	White	1,485	19,689	1,283	17,135	1,063	14,662	1,239	17,300
	Sophomore	African_Ame	939	11,643	887	11,086	828	10,499	734
American_In		17	218	13	149	8	92	10	123
Asian		1,328	16,719	1,497	18,898	1,410	17,878	1,416	17,990
Hawaiiin_Pac		14	165	17	211	17	232	22	256
Hispanic		1,796	20,705	2,049	23,863	1,892	22,361	1,970	23,374
Internationa		231	2,764	241	2,842	246	3,038	221	2,861
Multiracial		184	2,271	236	2,918	224	2,779	235	2,858
Unknown		38	458	25	295	36	442	48	612
White		1,799	22,143	1,832	22,326	1,645	20,507	1,578	19,797
Junior		African_Ame	905	11,032	1,013	12,430	889	11,011	918
	American_In	10	120	15	192	13	168	3	47
	Asian	1,464	18,167	1,571	19,485	1,647	20,392	1,714	21,385
	Hawaiiin_Pac	26	327	18	242	15	195	20	230
	Hispanic	2,116	23,975	2,485	28,151	2,571	29,717	2,853	32,793
	Internationa	373	4,695	337	4,084	362	4,351	373	4,455
	Multiracial	155	1,820	239	2,876	242	3,012	262	3,229
	Unknown	50	566	45	513	39	498	61	714

Facts

Headcount
SCH

Rows

Classification
Ethnicity(Diversity)

Columns

Semester

Future

- Modules to add data: Financial Aid, Student Financials
- Building Reports: Admissions, Financial Aid, Honors College
- On-going data improvements
- Access DW tables by SAS, SPSS



Thank you!!

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