The Continuous Evolution of the Student Data Warehouse at the University of Houston

Presented at SAIR 2016, Charlotte by Dr. Susan Moreno Vyas Krishnamurthy Carmen Allen Office of Institutional Research, University of Houston <u>www.uh.edu/ir</u>

Welcome to the Powerhouse.

UNIVERSITY of HOUSTON

University of Houston

- 43,774 students
- 14 colleges
- 110 bachelors, 119 masters, 47 doctoral, and 3 professional programs
- 9,596 degrees awarded annually



Outline

- What got UH to a Data Warehouse
- Phases of DW Implementation
- New Areas
- Snapshots
- Warehouse Tables
- Reports Demonstration

What got UH to 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

What got UH to a 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

Phases of DW Implementation

- Finance
- Student Enrollment
- Admissions
- Honors College
- Financial Aid

Admissions

- Decision on start and stop of weekly snapshots
- Create admission reports after meeting with stakeholders and assessing their needs
- New Fields: Redesigned SAT scores
- Logic Changes:
 - Completed Applications
 - Split Post-Baccalaureate students from other groups

Honors College

- Students participate from all academic colleges
- Data not easily accessible before
- Worked with College to ensure accuracy of identifying students in system by 20th Class Day
- Historical Data: one time update in DW table starting Fall 2009

Current Financial Aid

- Designed in 2009
- Limited to Fall enrolled students
- Designed for CDS, US News by consulting firm
- Limited fields and not flexible
- No consideration for Admission relationship

Current Financial Aid



New Financial Aid

- Work with financial aid office to understand business practices, terminologies and relationships (e.g. ISIR, Awards, Item Types)
- Complete re-design of Financial Aid DW
- Added more tables and fields to capture wide array of financial aid data
- More robust and dynamic
- Considered the relationship with Admission and Enrollment

New Financial Aid



New Financial Aid

- Daily data refresh
- Weekly snapshot
- Decision on an Aid Year begin and end snapshots
- Design process to capture data moving forward
- Decisions:
 - Past Aid Year data recovery: Logic to split between Fall-Spring, handle summer
 - Issue with historical data recovery
- Worked with Financial Aid office on validation
- Documentation

Snapshots

- Pulled on key dates in a semester
- Enrollment tables nine snapshots
- Admission and Financial Aid snapshots are weekly on Monday

Fall 2015 Enrollment Snapshots



| Snapshot | Period Description | Capture Date |
|----------|--------------------------------|--------------|
| PFC | ONE WEEK PRIOR FIRST CLASS DAY | 8/17/2015 |
| FCD | FIRST CLASS DAY | 8/24/2015 |
| CEN | CENSUS | 9/9/2015 |
| TCD | TWENTIETH CLASS DAY | 9/24/2015 |
| LDD | LAST DROP DATE | 10/30/2015 |
| TED | TERM END DT | 12/17/2015 |
| GD1 | GRADE DT 1 | 1/7/2016 |
| GD2 | GRADE DT 2 | 2/6/2016 |
| FGD | FINAL GRADE DT | 3/20/2016 |

Admission and Financial Aid Weekly Snapshots

Fall 2015 Admissions



Aug 2014

Jan 2016

Aid Year 2016 Financial Aid



Aug 2014

Aug 2017

New Data Warehouse Tables

- <u>Admissions tables</u>: Data from Fall 2010 to present
- Financial Aid tables:
 - Setup: Facilitates DW functionality
 - Data: Aid Year 2010 to present

Data Warehouse Tables



Future

- New Modules: Student Financials, Research
- Build Reports: Financial Aid, Explore Admissions-Financial Aid relationship
- On-going data improvements
- Data Visualization



Thank you!!

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Reports Demonstration

| http://data.uh.edu/workspace/index.jsp | Q - Q | Oracle Enterprise Perfori | | | | | |
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| Semesters a | & Dates | | UNIVER | SITY ADMISSIONS | | EXPORT to/as. 💊 |
| Display Optio | INS: FTIC | ► Ethnicity | ✓ Vield Rates | | | |
| | | | | s Report as of Oct 0 By Ethnicity | 2, 2016 | |
| | | Γ | Fall 2015 | Fall 2016 | Fall 2017 | ~ |
| | | | 09/28/14 | 09/27/15 | 10/02/16 | |
| | | | Headcount | Headcount | Headcount | |
| | African American | Applied | 360 | 397 | 639 | |
| | | Completed | | | 18 | |
| | | Admitted | | | 18 | |
| • | Asian American | Applied | 361 | 443 | 618 | |
| | | Completed | 13 | | 40 | |
| | | Admitted | 13 | | 40 | |
| | Hawaiian/Pacific Islander | | 4 | 3 | 3 | |
| | Hispanic | Applied | 574 | 760 | 1,502 | |
| | | Completed Admitted | 6 | | 48 | |
| | International | | 6 85 | 84 | 48 | |
| | international | Applied Completed | 65 | 84 | 4 | |
| | | Admitted | | | 4 | |
| | Multiracial | Applied | 94 | 109 | 135 | |
| | | Completed | 2 | | 10 | |
| | | Admitted | 2 | | 10 | |
| | Native American | Applied | 5 | 3 | 2 | |
| | White | Applied | 688 | 792 | 1,158 | |
| | | Completed | 17 | | 116 | |
| | | Admitted | 17 | | 115 | |
| | | | | | | |
| | Unknown | Applied | 21 | 20 | 34 | |

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| Sections Applicant Count and Yield Rate Applicant Count with Percentage Change One Year Percentage Change - AAE | 🫱 UNIVERS | TY of | HOUSTON | | | |
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| | | | Top 20 % Top 15 % | Fall 2015 | Fall 2016 | Fall 2017 | ^ |
| | | | Top 10 % College | 09/28/14 | 09/27/15 | 10/02/16 | |
| | | | | | Headcount | Headcount | |
| | | African American | Applied | 360 | 397 | 639 | |
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| | | Asian American | Admitted | 361 | 443 | 18 | |
| | | Asian American | Applied Completed | 13 | 443 | 618 40 | |
| | | | Admitted | 13 | | 40 | |
| | | Hawaiian/Pacific Islander | Applied | 4 | 3 | 3 | |
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| | | | | 09/28/14 | | 09/27/15 | | 10/02/16 | | | |
| | | | | Headcount | Yield% | Headcount | Yield% | Headcount | Yield% | | |
| | | Female | Applied | 1,125 | | 1,399 | | 2,353 | | | |
| | | | Completed | 18 | 1.6% | | | 138 | 5.9% | | |
| | | | Admitted | | 100.0% | | | 137 | 99.3% | | |
| | | Male | Applied | 1,066 | | 1,212 | | 1,883 | | | |
| | | | Completed Admitted | 20 | 1.9% 100.0% | | | 103 | 5.5% | | |
| | | • • 11 • Therefore the re- | Applied | 1 | 100.0% | | | 7 | 100.0% | | |
| | | Unknown | | 1 | | | | / | | | |
| | | Unknown Total | | | | 2 611 | | 4 242 | | | |
| | | Unknown Total | Applied Completed | 2,192 38 | 1.7% | 2,611 | | 4,243 241 | 5.7% | | |





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| | Display Options: FTIC | ✓ Table | • • | | | | | | |
| | | Fall 201 | .6 FTIC Comple | | s <mark>, Admitted &</mark> to Week % Cha | | ds as of Jun 05, | , 2016 | |
| | | Apr 03, 2016 | Apr 10, 2016 | Apr 17, 2016 | Apr 24, 2016 | May 01, 2016 | May 08, 2016 | May 15, 2016 | May 22, 2016 |
| | Completed | 14.9% | 12.5% | 10.1% | 9.8% | 8.5% | 8.2% | 8.5% | 9.1% |
| | Admitted | 11.2% | 11.5% | 11.7% | 9.2% | 8.2% | 8.0% | 7.9% | 8.6% |
| | Enrolled | | | | 40.4% | 37.9% | 38.1% | 38.1% | 38.7% |

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- I Student New Undergraduate Transfers Enrollment Trends
- Student Trends in In-State/Out-of-State Residency
- Student Trends in In-State Residency Enrollment
- Student Trends in Out-Of-State Residency Enrollment
- Student Trends in International Residency Enrollment

| | | | ter Headcou Classificatio | | | |
|---|--------------------|-----------|------------------------------|-----------|-----------|---|
| | | Fall 2011 | Fall 2012 | Fall 2013 | Fall 2014 | F |
| Arch & Design, Hines College of | Freshman | 13 | 9 | 10 | 14 | |
| | Sophomore | 6 | 7 | 9 | 8 | |
| | Junior | 9 | 7 | 6 | 9 | |
| | Senior | 11 | 9 | 9 | 14 | |
| | Subtotal | 39 | 32 | 34 | 45 | |
| Business, Bauer College of | Freshman | 45 | 55 | 59 | 86 | |
| Business, Bauer College of Education, College of | Sophomore | 45 | 54 | 76 | 85 | |
| | Junior | 53 | 59 | 61 | 76 | |
| | Senior | 71 | 76 | 91 | 95 | |
| | Subtotal | 214 | 244 | 287 | 342 | |
| Education, College of | Freshman | 2 | 3 | 3 | 4 | |
| | Sophomore | 5 | 5 | 7 | 8 | |
| | Junior | 2 | 3 | 9 | 5 | |
| | Senior | 7 | 5 | 6 | 13 | |
| | Subtotal | 16 | 16 | 25 | 30 | |
| Engineering, College of | Freshman | 72 | 92 | 78 | 119 | |
| | Sophomore | 49 | 64 | 85 | 88 | |
| | Junior | 33 | 53 | 60 | 104 | |
| | Senior | 51 | 45 | 60 | 73 | |
| | Post-Baccalaureate | 2 | 1 | 2 | 3 | |
| | Subtotal | 207 | 255 | 285 | 387 | |
| Exploratory Studies | Freshman | 22 | 20 | 39 | 35 | |
| | Sophomore | 3 | 4 | 9 | 8 | |
| | Junior | | | 1 | 3 | |
| | Senior | | | 1 | | |
| | Subtotal | 25 | 24 | 50 | 46 | |
| Hotel & Restaurant Møt. Col of | Freshman | 7 | 5 | 13 | 11 | |
| | | | | | | |

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| | Full-Time, Degree Seeking | | | | | | | | | |
| | Additional Groups | | | | | | | | | |
| | Transfer Students | | | | | | | | | |
| | Full-Time, Degree Seeking with 60 Transfer Hours | | | | | | | | | |
| | Additional Transfer Groups | | | | | | | | | |
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| FTIC FT Degree Seeking | | | | | | | | | | | | |
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| FTIC FT Degree Seeking by SAT Score | | | | | | | | | | | | |
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| FTIC FT Degree Seeking by Percentile Range | First-Time in College, Full-Time, Degree Seeking Students Retention and Graduation | | | | | | | | | | | |
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| TTLC FT Degree Seeking by Top 15 Percentile | | | | | | | | | | | | |
| FTIC FT Degree Seeking by Top 10 Percentile | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Fall 2009 | Fall 2010 | Fall 2011 | Fall 2012 | Fall 2013 | Fall 2014 | Fall 2015 | | | |
| | FTIC Fall 2009 | College Enrolled | 272 | 217 | 183 | 156 | 43 | 13 | 3 | | | |
| | | College Not Enrolled | | 55 | 89 | 112 | 123 | 125 | 125 | | | |
| • | | College Cumulative Graduation College Retention Rate | | 0 | 0 | 4 | 106 | 134 | 144 1.1% | | | |
| | | College Cumulative Graduation Rate | | 79.8% 0.0% | 67.3% 0.0% | 57.4% 1.5% | 15.8% 39.0% | 4.8% 49.3% | 52.9% | | | |
| | | UH Enrolled | 272 | 238 | 221 | 198 | 80 | 28 | 32.3% | | | |
| | | UH Not Enrolled | | 34 | 51 | 67 | 70 | 78 | 73 | | | |
| | | UH Cumulative Graduation | | 0 | 0 | 7 | 122 | 166 | 191 | | | |
| | | UH Retention Rate | | 87.5% | 81.3% | 72.8% | 29.4% | 10.3% | 2.9% | | | |
| | | UH Cumulative Graduation Rate | | 0.0% | 0.0% | 2.6% | 44.9% | 61.0% | 70.2% | | | |
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List of Data Warehouse Tables

- STU_N_CB34_SCH_SCL
- STU_N_CB4_CLASS
- STU_N_CB3_COURSE
- STU_N_CB8_FACULTY_NS
- STU_N_CB8_FACULTY
- STU_N_CB9_GRAD
- STU_N_CB1_STDNT

CB Tables

Enrollment Setup Tables

- STU N CAPTURE DATES
- STU N CAPTURE DATES SES
- STU N SESSIONS

- STU N PLAN
- STU N INSTITUTION
- STU N ACAD CAREER
- STU N TERM

Admission Tables

- STU_N_APPLICANTS_VW
- STU_N_APPLICATIONS_VW

- STU_N_CONTACT_INFO
- STU_N_STDNT_GROUPS
- STU_N_STDNT_DEGREE
- STU_N_STDNT_TRANSFER
- STU_N_STDNT_PROGRESS
- STU_N_STUDENTS
- STU_N_COURSE_ATTR
- STU_N_ENROLLMENT
- STU_N_CLASS_INSTR
- STU N CLASS ATTR
- STU_N_CLASS

Enrollment Tables

Matrix Tables

- STU_N_PLAN_RPT_MTX
- STU_N_CRSE_RPT_MTX
- STU_N_ADMIN_UNIT_MTX

Retention Graduation Tables

- VW_STU_N_UG_RETENTION_DETAIL
- VW_STU_N_UG_RETENTION_RATES

Financial Aid Setup Tables

- STUFA_AID_YEAR
- STUFA_AID_TERM
- STUFA_ITEM_TYPES
- STUFA_FAT_GROUPS
- DW_SNAPSHOT_CONTROL

Financial Aid Data Tables

- STUFA_AID_ATTRIB
- STUFA_STDNT_ISIR
- STUFA_AID_TERM_BDGT
- STUFA_AID_TERM_DATA
- STUFA_AID_AWARD_PER
- STUFA_AID_AWARDS
- STUFA_AID_AWARD_SUMM
- STUFA_AID_AWARD_ACTV
- STUFA_AID_AWARD_AIDYR_TERM
- STUFA SCHOL DATA
- STUFA_MSHETY_DATA