

Using NSC Student Tracker in Admissions

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March 3, 2020

Presentation Overview

- Background Information
- What is Student Tracker?
- Data Preparation and Submission
- Student Tracker Data and Analysis
- Results

University of Houston

- Flagship of the University of Houston system
- 16 colleges
- Medical School starting Fall 2020
- 250+ undergraduate, graduate and professional programs
- Fall 2019 Enrollment: 46,148
- FY 2019 Degrees: 10,568



Institutional Research

- 5 staff members, 2 research assistant



Previous TAIR Presentations

- TAIR 2014
 - Keeping Track of Our Students
 - Hengxia Zhao, Davis Troutman (UT System)
- TAIR 2017
 - Uses of NSC Student Tracker
 - Carol Tucker (UHD)

Background

- Undergraduate Admissions IT contacted IR office in Jan 2019.
 - Enrollment information of Fall 2018 admitted students but did not enroll at UH.
 - Help with Student Tracker service
- Meetings to understand what Admissions wanted to learn from Student Tracker data.

Background

- Admissions Requirement:
 - Fall 2018 applicants who did not enroll, the institutions attended in Fall.
 - Analyze institutional competitors to UH.
 - Need data once a year (Fall).
 - Load data to Student Information System.

Background

- Clarifications:
 - Fall 2018 **applicants** and did not enroll
 - Admitted and did not enroll
 - Does this include both **FTICs** and **Transfers**?
 - FTICs only

Student Tracker

- A service from National Student Clearinghouse that provides:
 - College enrollment and degree data.
 - Query participating institutions student data
 - <https://www.studentclearinghouse.org/colleges/studenttracker/>

Source: NSC Student Tracker

Student Tracker

- Access to Student Tracker:
 - Secure FTP: <https://ftps.nslc.org/>
 - Web ID: www.studentclearinghouse.org
- Level of access is decided and managed by institutions' user administrator

Source: NSC Student Tracker

Student Tracker- Things to consider

- Organize data:
 - Decide on search option
 - Start date of search
 - Format file according to documentation
- How use the returned data:
 - Type of reports being created
 - Audience for the reports
 - Integrate data into Student Information System.

Student Tracker- Search Options

- SE - Subsequent Enrollment
 - Concurrent Enrollment of current students
 - Subsequent Enrollment of former students
 - Stop outs, Graduated students
- DA - Declined Attendance/Admissions
 - Enrollment of former students who did not attend institution
 - Admitted, Did not Enroll

Source: NSC Student Tracker

Student Tracker- Search Options

- PA - Prior Attendance
 - Historical Attendance
 - Not used by UH IR office
 - Financial Aid, Registrar
- CO - Cohort Query
 - Longitudinal Cohort
 - VSA - Voluntary System of Accountability College Portrait

Source: NSC Student Tracker

Data Preparation

- Starting population:
 - FTIC Admitted population - Admissions
 - Remove duplicates
 - Enrolled Undergraduates Fall - CB1
 - Admitted and did not enroll students

Data File

- Header Row: Informs system who sent, when sent and type of query.
- Student Detail: Use to locate matching records in database.
- Trailer Row: Informs system file ends and is last row.

Source: NSC Student Tracker

Data File Sample

	A	B	C	D	E	F	G	H	I	J	K	L
1	H1	001234	00	HOMETOWN UNIVERSITY	20160101	SE	I					

	A	B	C	D	E	F	G	H	I	J	K	L
2	D1		Asante	A	Albertson	Jr	19900320	20150601		001234	00	10045643.M.ROTC
3	D1		Julie	Y	Budet		19901229	20150601		001234	00	10098456.F.ROTC
4	D1		Nadia		Nesvaderani		19900821	20150601		001234	00	10065486.F
5	D1		Frank	G	Hwang		19900104	20150601		001234	00	10098453.M
6	D1		Robert	A	Pacino		19900316	20150601		001234	00	10023785.M
7	D1		Micheal	B	Ford	III	19900419	20150601		001234	00	10035456.M
8	D1		Tricia	O	Ignacio		19900514	20150601		001234	00	10044456.F
9	D1		Henry	V	Larsson		19900801	20150601		001234	00	10041134.M
10	D1		Lauren	E	Hamilton		19901202	20150601		001234	00	10084985.F.ROTC
11	D1		Samy	L	Besson		19900715	20150601		001234	00	10084543.M
12	D1		Samuel		Park		19900425	20150601		001234	00	10034958.M

	A	B	C	D	E	F	G	H	I	J	K	L
13	T1	13										

Source: NSC Student Tracker


Data File

- Text format
- Excel submission error

Your recent submission, [REDACTED] .xlsx, was rejected by our system because we cannot process Excel file formats. Please resubmit your file as text-tab delimited at your earliest convenience.

- Save Excel in Text format
- NSC will email:
 - Delivery receipt, File accepted & Output available
 - Low Match Rate: confirm and they will run the file
 - Data file error

Data File - Warnings/Errors

Type 	Section	Description	Proposed Solution	Affected Records	Affected Rows
Error	Student Detail	Last Name contains foreign characters.	Last Name field may only contain alphabetic characters, hyphens, or apostrophes. Please remove all foreign characters and resubmit.	1	7762
Warning	Student Detail	Possible invalid Date of Birth.	The Date of Birth provided implies that the student is less than 16 years old. If this is correct, ignore this warning. If this is incorrect, please correct and resubmit.	2	10797, 6245
Warning	Student Detail	Last Name contains non-alphabetic character(s).	System removed non-alphabetic character(s) from Last Name.	1	7762

- Common Errors:
 - Special Characters
 - Middle names instead of middle initials.
 - Requestor field is more than 50 character long

Student Tracker Reports

- Control Report
 - Overview of tracker results
- Aggregate Report
 - Counts of enrollment by University, School Type, Public/Private, State
- Detail Report
 - Student level data with institutions attended, enrollment status, enrollment major & dates, graduation

Missing Student Records

- Not Enrolled
- Attending an institution not participating
- Record blocked by either student or school
- Not within the search date
- Match could not be found

Student Tracker – Detail Report

- Important Fields:
 - Requestor Returned Field
 - Record Found: Y/N
 - College: Name, State, 2/4 yr, Public/Private
 - Enrollment: Dates, Status, Major
 - Graduation Data

Data Checks

- Enrollment Status
 - F = Full time
 - Q = Three-Quarter time
 - H = Half-time
 - L = Less than half-time
 - A = Leave of absence
 - W = Withdrawn
 - D = Deceased
- Duplicate entries per student

Source: NSC Student Tracker

Data Checks

- No semester field
- Enrollment dates
 - Begin and End dates of students attendance
 - YYYYMMDD format
 - Separate dates to YYYY, MM, DD
- Delete records with future enrollment dates
 - Spring 2020 enrollment

Data Checks

- Remove student enrolled at UH
- Delete Graduated records
- Sort and delete duplicate records
 - Enrollment Status
 - Enrollment Begin Date
 - College Sequence
- Rename fields
 - User friendly
 - v2_year____4_year → College_Type_Year

Data Analysis

- Combine data
 - Original IR data set
 - Cleaned Student Tracker
 - By EMPLID
- Run Analysis

Results Summary

- FTIC19 Admitted Not Enrolled: 10,814
- Data Returned for 87% of students (9,424)
 - 662 institutions
- Enrolled in Public Universities: 81.3% (7,658)
- Enrolled in Private Universities: 18.7% (1,766)

Results

Universities/College	2/4 Year	Public/Private	%
TEXAS A&M UNIVERSITY	4	Public	12.9%
UNIVERSITY OF TEXAS AT AUSTIN	4	Public	10.7%
UNIVERSITY OF TEXAS AT DALLAS	4	Public	6.8%
UNIVERSITY OF TEXAS - SAN ANTONIO	4	Public	3.9%
LONE STAR COLLEGE SYSTEM DISTRICT	2	Public	3.5%
TEXAS STATE UNIVERSITY - SAN MARCOS	4	Public	3.4%
UNIVERSITY OF NORTH TEXAS	4	Public	3.3%
HOUSTON COMMUNITY COLLEGE	2	Public	2.9%
UNIVERSITY OF TEXAS ARLINGTON	4	Public	2.5%
BAYLOR UNIVERSITY	4	Private	2.3%
UNIVERSITY OF TEXAS RIO GRANDE VALLEY	4	Public	2.2%
SAN JACINTO COLLEGE	2	Public	1.7%
SAM HOUSTON STATE UNIVERSITY	4	Public	1.5%
LOUISIANA STATE UNIVERSITY	4	Public	1.3%

Type of Institution

- Out of 7,658 enrolled in Public Universities
 - 68.5% went to Public 4 year institutions
 - 12.8% went to Community Colleges
- Analysis by:
 - Public 4-year Universities
 - Community Colleges
 - Private Universities

Public Universities

Top Public Universities	% Public
TEXAS A&M UNIVERSITY	18.8%
UNIVERSITY OF TEXAS AT AUSTIN	15.7%
UNIVERSITY OF TEXAS AT DALLAS	9.9%
UNIVERSITY OF TEXAS - SAN ANTONIO	5.7%
TEXAS STATE UNIVERSITY - SAN MARCOS	4.9%
UNIVERSITY OF NORTH TEXAS	4.8%
UNIVERSITY OF TEXAS ARLINGTON	3.6%
UNIVERSITY OF TEXAS RIO GRANDE VALLEY	3.2%
SAM HOUSTON STATE UNIVERSITY	2.1%
LOUISIANA STATE UNIVERSITY	1.9%

Private Universities

Top Private Universities	% Private
BAYLOR UNIVERSITY	12.3%
HOUSTON BAPTIST UNIVERSITY	6.2%
UNIVERSITY OF ST THOMAS	5.6%
TRINITY UNIVERSITY	4.1%
RICE UNIVERSITY	3.3%
ST EDWARDS UNIVERSITY	3.1%
TEXAS CHRISTIAN UNIVERSITY	2.8%
HOWARD UNIVERSITY	2.2%
SOUTHERN METHODIST UNIVERSITY	2.2%
UNIVERSITY OF THE INCARNATE WORD	2.0%

Community Colleges

Top Community Colleges	% Comm
LONE STAR COLLEGE SYSTEM DISTRICT	27.5%
HOUSTON COMMUNITY COLLEGE	22.6%
SAN JACINTO COLLEGE	13.0%
BLINN COLLEGE- BRYAN CAMPUS	4.9%
WHARTON COUNTY JUNIOR COLLEGE	4.7%
AUSTIN COMMUNITY COLLEGE	3.0%
COLLIN COUNTY COMMUNITY COLLEGE	2.2%
BLINN COLLEGE	1.8%
TARRANT COUNTY COLLEGE	1.2%
LEE COLLEGE	1.2%

Gender

Male

Female

Top Universities/Colleges

TEXAS A&M UNIVERSITY

UNIVERSITY OF TEXAS AT AUSTIN

UNIVERSITY OF TEXAS AT DALLAS

LONE STAR COLLEGE SYSTEM DISTRICT

UNIVERSITY OF TEXAS - SAN ANTONIO

UNIVERSITY OF NORTH TEXAS

TEXAS STATE UNIVERSITY - SAN MARCOS

HOUSTON COMMUNITY COLLEGE

UNIVERSITY OF TEXAS ARLINGTON

BAYLOR UNIVERSITY

Top Universities/Colleges

UNIVERSITY OF TEXAS AT AUSTIN

TEXAS A&M UNIVERSITY

UNIVERSITY OF TEXAS AT DALLAS

UNIVERSITY OF TEXAS - SAN ANTONIO

TEXAS STATE UNIVERSITY - SAN MARCOS

UNIVERSITY OF NORTH TEXAS

LONE STAR COLLEGE SYSTEM DISTRICT

HOUSTON COMMUNITY COLLEGE

UNIVERSITY OF TEXAS RIO GRANDE VALLEY

UNIVERSITY OF TEXAS ARLINGTON

Race/Ethnicity

White

Top Universities/Colleges

TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN
LONE STAR COLLEGE SYSTEM DISTRICT
TEXAS STATE UNIVERSITY - SAN MARCOS
BAYLOR UNIVERSITY

Hispanic

Top Universities/Colleges

TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF TEXAS RIO GRANDE VALLEY
UNIVERSITY OF TEXAS - SAN ANTONIO
LONE STAR COLLEGE SYSTEM DISTRICT

African American

Top Universities/Colleges

UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF NORTH TEXAS
PRAIRIE VIEW A&M UNIVERSITY
TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS - SAN ANTONIO

Asian American

Top Universities/Colleges

UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF TEXAS AT DALLAS
TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS ARLINGTON
UNIVERSITY OF TEXAS - SAN ANTONIO

First Generation

First Generation

Top Universities/Colleges

TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN
HOUSTON COMMUNITY COLLEGE
LONE STAR COLLEGE SYSTEM DISTRICT
UNIVERSITY OF TEXAS AT DALLAS
UNIVERSITY OF NORTH TEXAS
UNIVERSITY OF TEXAS - SAN ANTONIO
UNIVERSITY OF TEXAS RIO GRANDE VALLEY
SAN JACINTO COLLEGE
TEXAS STATE UNIVERSITY - SAN MARCOS

Not First Generation

Top Universities/Colleges

TEXAS A&M UNIVERSITY
UNIVERSITY OF TEXAS AT AUSTIN
UNIVERSITY OF TEXAS AT DALLAS
UNIVERSITY OF TEXAS - SAN ANTONIO
TEXAS STATE UNIVERSITY - SAN MARCOS
BAYLOR UNIVERSITY
UNIVERSITY OF NORTH TEXAS
LONE STAR COLLEGE SYSTEM DISTRICT
UNIVERSITY OF TEXAS ARLINGTON
LOUISIANA STATE UNIVERSITY

Top 10 Rank

Top 10%

Top Universities/Colleges

UNIVERSITY OF TEXAS AT AUSTIN

TEXAS A&M UNIVERSITY

UNIVERSITY OF TEXAS AT DALLAS

HOUSTON COMMUNITY COLLEGE

LONE STAR COLLEGE SYSTEM DISTRICT

UNIVERSITY OF NORTH TEXAS

UNIVERSITY OF TEXAS RIO GRANDE VALLEY

SAN JACINTO COLLEGE

UNIVERSITY OF TEXAS - SAN ANTONIO

TEXAS STATE UNIVERSITY - SAN MARCOS

Not Top 10%

Top Universities/Colleges

TEXAS A&M UNIVERSITY

UNIVERSITY OF TEXAS AT DALLAS

UNIVERSITY OF TEXAS - SAN ANTONIO

LONE STAR COLLEGE SYSTEM DISTRICT

TEXAS STATE UNIVERSITY - SAN MARCOS

UNIVERSITY OF NORTH TEXAS

UNIVERSITY OF TEXAS AT AUSTIN

HOUSTON COMMUNITY COLLEGE

UNIVERSITY OF TEXAS ARLINGTON

BAYLOR UNIVERSITY

In-State/Out-of-State

In-State

Top Universities/Colleges

TEXAS A&M UNIVERSITY

UNIVERSITY OF TEXAS AT AUSTIN

UNIVERSITY OF TEXAS AT DALLAS

UNIVERSITY OF TEXAS - SAN ANTONIO

LONE STAR COLLEGE SYSTEM DISTRICT

TEXAS STATE UNIVERSITY - SAN MARCOS

UNIVERSITY OF NORTH TEXAS

HOUSTON COMMUNITY COLLEGE

UNIVERSITY OF TEXAS ARLINGTON

BAYLOR UNIVERSITY

Out-of-State

Top Universities/Colleges

LOUISIANA STATE UNIVERSITY

UNIVERSITY OF ILLINOIS AT URBANA

GEORGIA STATE UNIVERSITY

PENNSYLVANIA STATE UNIVERSITY

ARIZONA STATE UNIVERSITY

UNIVERSITY OF ARIZONA

UNIVERSITY OF CENTRAL FLORIDA

UNIVERSITY OF ILLINOIS AT CHICAGO

XAVIER UNIVERSITY OF LOUISIANA

HOWARD UNIVERSITY

Admissions

- Summary spreadsheet
- Cleaned student data file
- Raw Student Tracker Output
 - Admissions IT loads the raw student tracker details file to PeopleSoft

Student Response

Reason STTR
External Org ID 009741

NSC Student Tracker Response

Date 01/29/2020
Description U Of Texas-Dallas

Future

- Ideas
 - School District
 - Application Date, Decision Date
 - FAFSA Applied & Date
 - Financial Aid
 - SAT/ACT Scores
 - Applied Major
- Dashboard

Other Projects

- Colleges/Departments - Stop Outs
- Continuing Education of Graduates
 - Surveys
 - Academic Colleges, Honors College
- Graduate students Admitted and Not Enrolled
- Enrollment of Denied Applicants



Thank you!!

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