The Power is in Their Hands:
Facilitating Data Usage Throughout the University

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Texas Association for Institutional Research (TAIR)
Houston, Texas
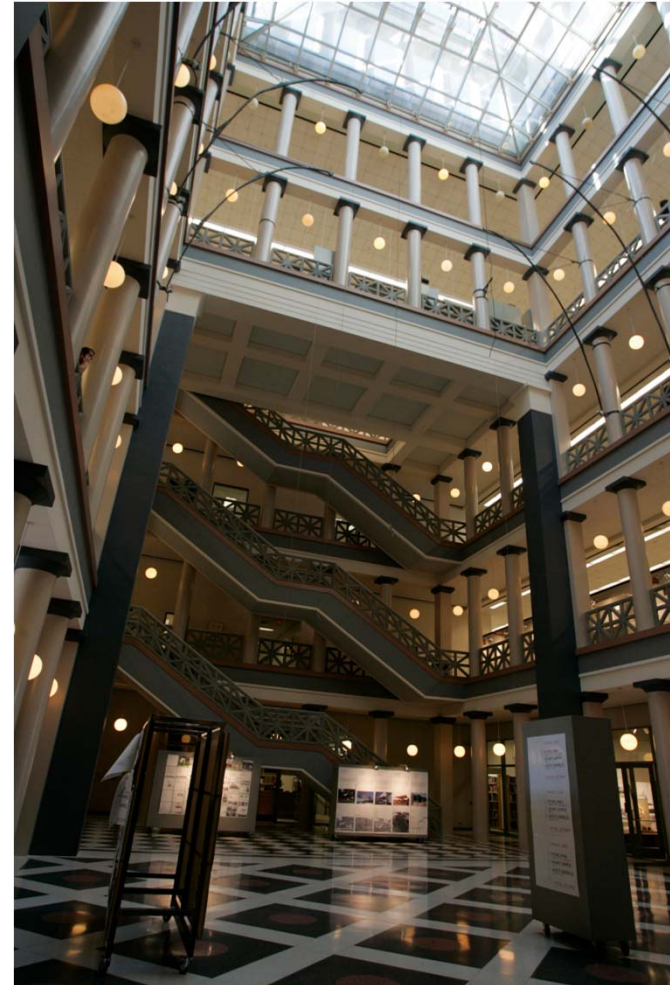February 28, 2017

Welcome to the Powerhouse. UNIVERSITY of **HOUSTON**

Outline

- Introductions
- What are Reporting Tables?
- Reporting Tables Schema
- Description of Tables
- Query Training Overview
- Demonstration

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University of Houston

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

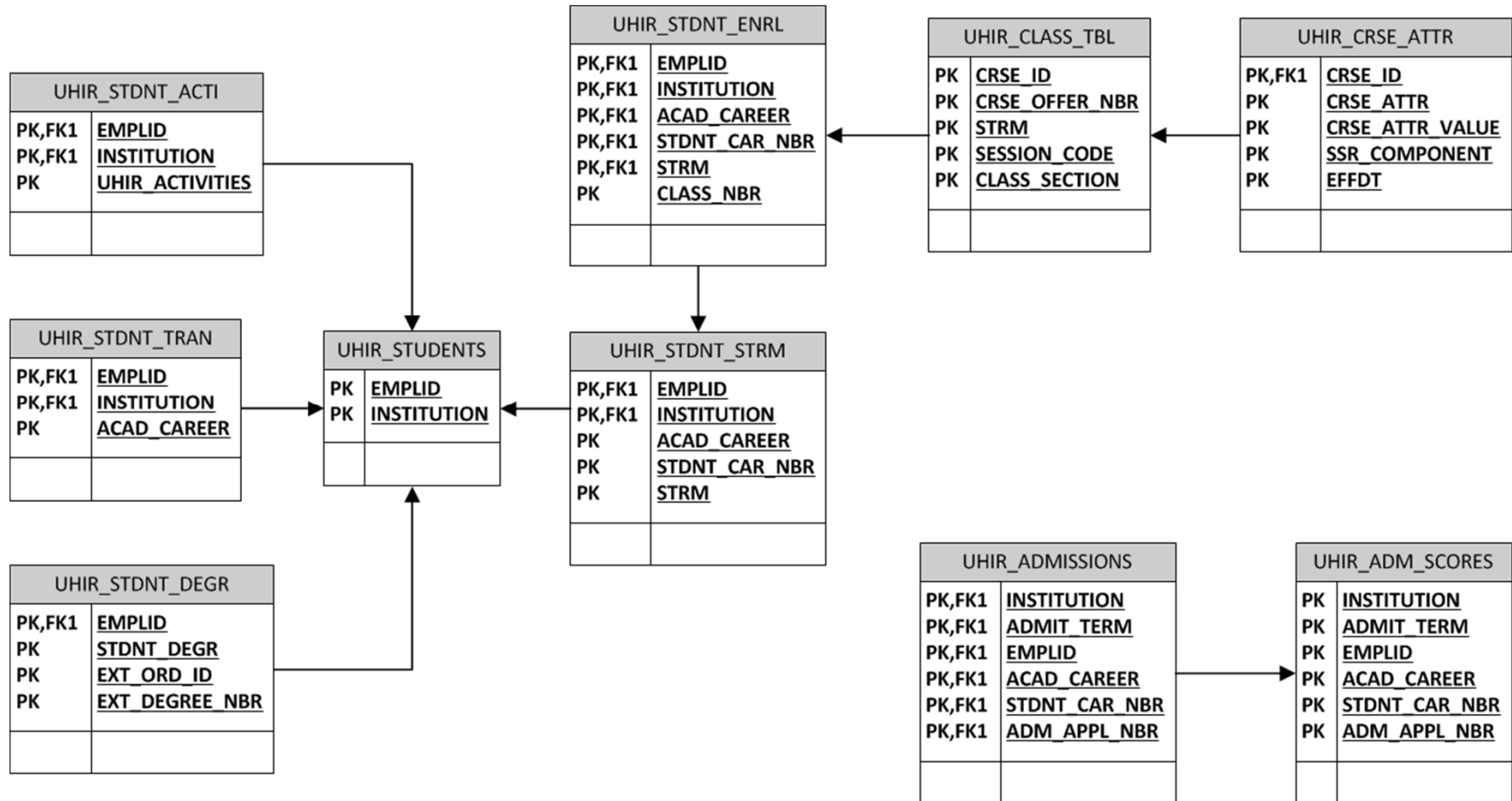# The Need for Reporting Tables

- Data access <u>before</u> PeopleSoft…
  - Data dump
  - No query ability
  - Little flexibility in terms of fields included
- Data access <u>after</u> PeopleSoft…
  - Opportunity to change how we make data available
  - Consolidate data from many tables into about a dozen tables
  - Facilitate development of queries

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Reporting Table Logistics

- Refreshed daily overnight
- Roughly three hours to load
- Table purged and reloaded for the term being processed
- Key fields aid in query building

Reporting Tables Schema

UHIR_STDNT_ACTI

PK,FK1	EMPLID
PK,FK1	INSTITUTION
PK	UHIR_ACTIVITIES

UHIR_STDNT_TRAN

PK,FK1	EMPLID
PK,FK1	INSTITUTION
PK	ACAD_CAREER

UHIR_STDNT_DEGR

PK,FK1	EMPLID
PK	STDNT_DEGR
PK	EXT_ORD_ID
PK	EXT_DEGREE_NBR

UHIR_STDNT_ENRL

PK,FK1	EMPLID
PK,FK1	INSTITUTION
PK,FK1	ACAD_CAREER
PK,FK1	STDNT_CAR_NBR
PK,FK1	STRM
PK	CLASS_NBR

UHIR_CLASS_TBL

PK	CRSE_ID
PK	CRSE_OFFER_NBR
PK	STRM
PK	SESSION_CODE
PK	CLASS_SECTION

UHIR_CRSE_ATTR

PK,FK1	CRSE_ID
PK	CRSE_ATTR
PK	CRSE_ATTR_VALUE
PK	SSR_COMPONENT
PK	EFFDT

UHIR_STUDENTS

PK	EMPLID
PK	INSTITUTION

UHIR_STDNT_STRM

PK,FK1	EMPLID
PK,FK1	INSTITUTION
PK	ACAD_CAREER
PK	STDNT_CAR_NBR
PK	STRM

UHIR_ADMISSIONS

PK,FK1	INSTITUTION
PK,FK1	ADMIT_TERM
PK,FK1	EMPLID
PK,FK1	ACAD_CAREER
PK,FK1	STDNT_CAR_NBR
PK,FK1	ADM_APPL_NBR

UHIR_ADM_SCORES

PK	INSTITUTION
PK	ADMIT_TERM
PK	EMPLID
PK	ACAD_CAREER
PK	STDNT_CAR_NBR
PK	ADM_APPL_NBR

Tables & Descriptions

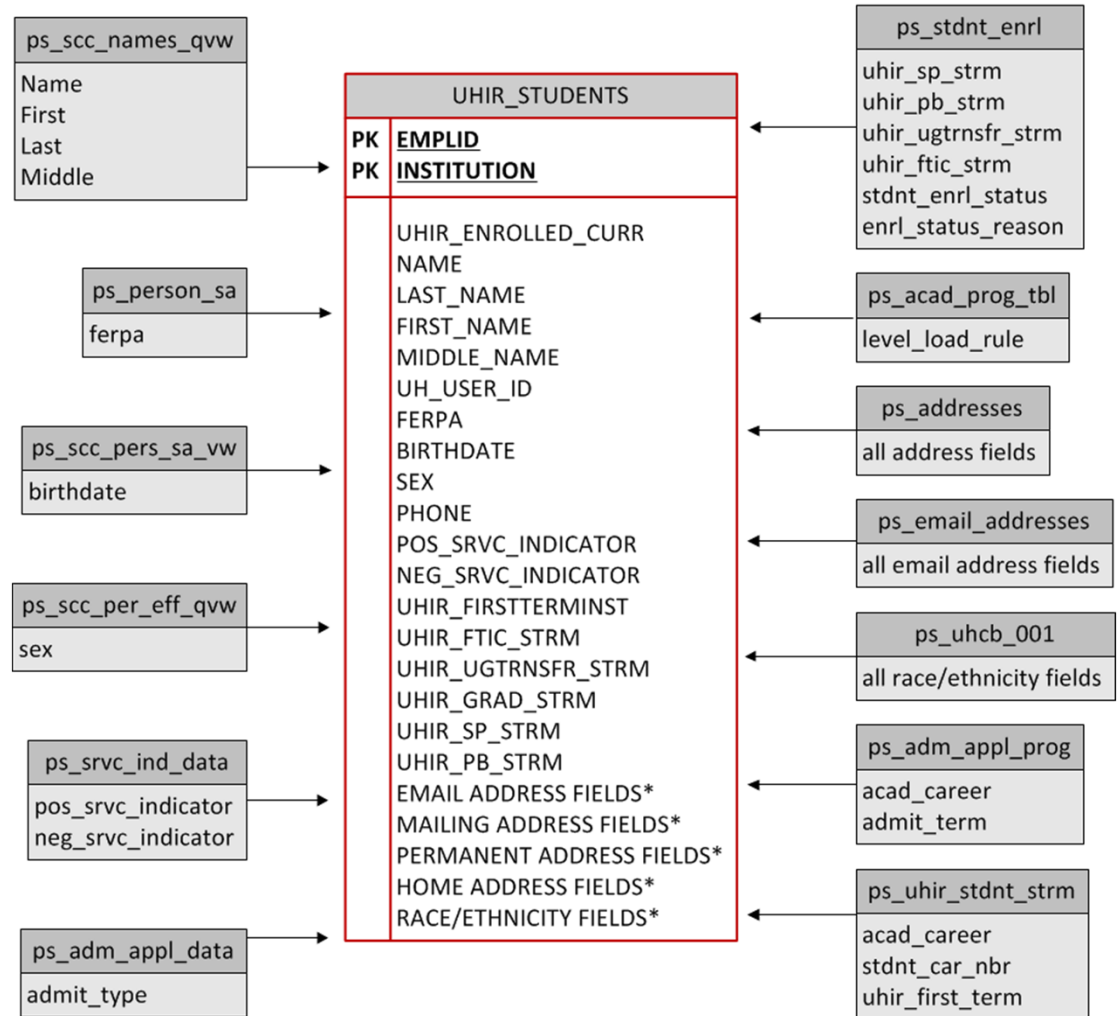| Table Name	Description
UHIR_STUDENTS	Current demographic information for students. One record per student, per institution.
UHIR_STDNT_STRM	Term-specific information for students that have been enrolled in at least one class for that term.
UHIR_STDNT_ENRL	Class enrollment data by term.
UHIR_STDNT_DEGR	Degree information.
UHIR_STDNT_TRAN	Transfer information.
UHIR_STDNT_ACTI	Combination of student attributes, extra-curricular, student activity and student group data.
UHIR_CLASS_TBL	Data related to classes offered.
UHIR_ADMISSIONS	Admission application data.
UHIR_ADM_SCORES	Admission test score information.

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Tables & Descriptions (cont'd)

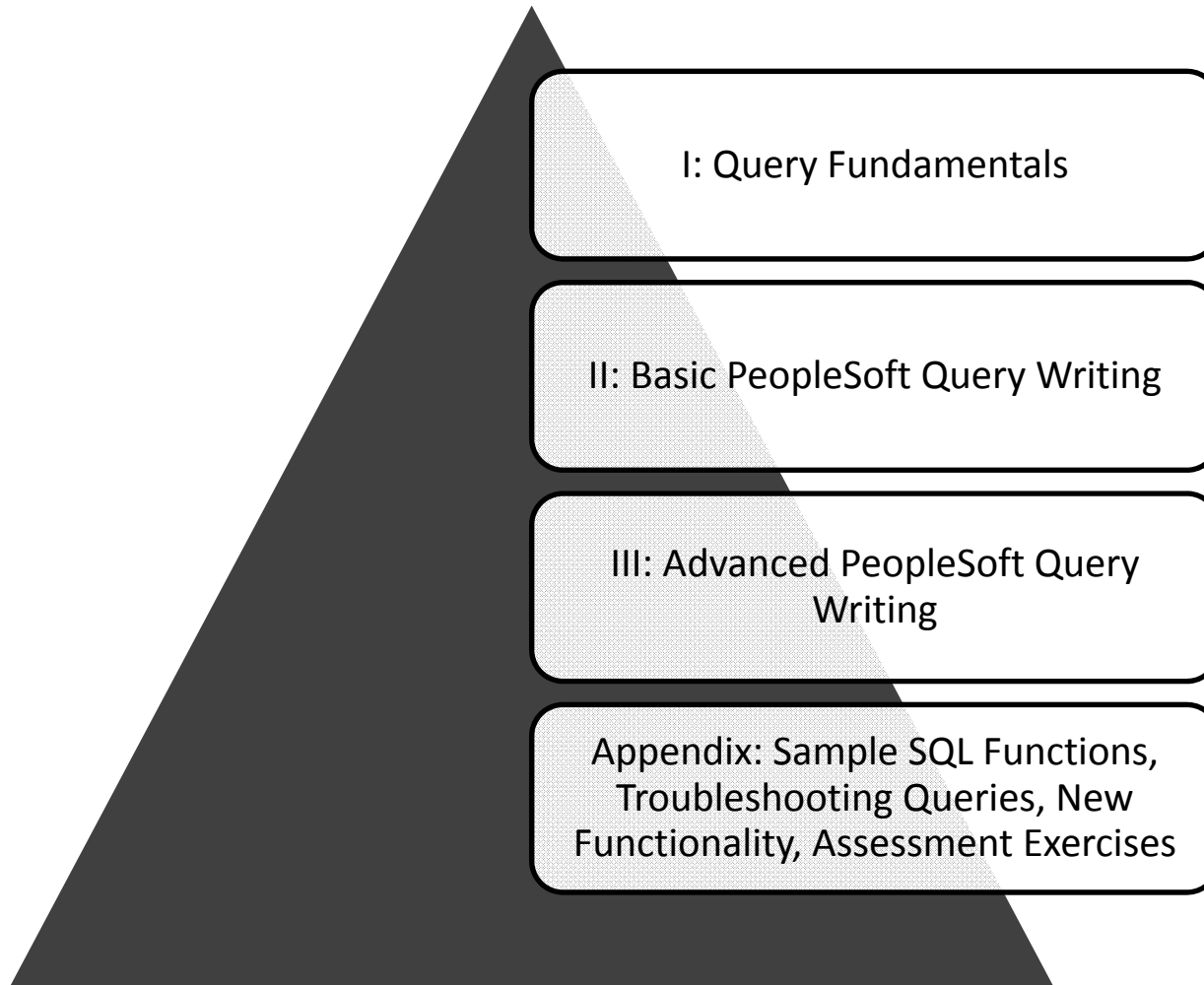| Table Name	Description
UHS_STDNT_LOC	Identifies the locations of all of the classes in which a student is enrolled.
UHM_ADM_FTICPOP	Key information about admitted FTICs and where they are in the onboarding process.
UHM_FTIC_COHDAT	Tracks members of FTIC cohorts as they progress through the university.
UHM_UGRD_COHORT	Identifies new undergraduate students each semester; includes FTIC/transfer and degree-seeking status.
UHIR_HOUSING	Student data from the housing system from application to booking.

Source Tables for UHIR_STUDENTS

- 13 source tables
- 61 fields
  - 55 fields pulled
  - 6 derived fields

ps_scc_names_qvw
Name
First
Last
Middle

ps_person_sa
ferpa

ps_scc_pers_sa_vw
birthdate

ps_scc_per_eff_qvw
sex

ps_srvc_ind_data
pos_srvc_indicator
neg_srvc_indicator

ps_adm_appl_data
admit_type

UHIR_STUDENTS
PK EMPLID
PK INSTITUTION

UHIR_ENROLLED_CURR
NAME
LAST_NAME
FIRST_NAME
MIDDLE_NAME
UH_USER_ID
FERPA
BIRTHDATE
SEX
PHONE
POS_SRVC_INDICATOR
NEG_SRVC_INDICATOR
UHIR_FIRSTTERMINST
UHIR_FTIC_STRM
UHIR_UGTRNSFR_STRM
UHIR_GRAD_STRM
UHIR_SP_STRM
UHIR_PB_STRM
EMAIL ADDRESS FIELDS*
MAILING ADDRESS FIELDS*
PERMANENT ADDRESS FIELDS*
HOME ADDRESS FIELDS*
RACE/ETHNICITY FIELDS*

ps_stdnt_enrl
uhir_sp_strm
uhir_pb_strm
uhir_ugtrnsfr_strm
uhir_ftic_strm
stdnt_enrl_status
enrl_status_reason

ps_acad_prog_tbl
level_load_rule

ps_addresses
all address fields

ps_email_addresses
all email address fields

ps_uhcb_001
all race/ethnicity fields

ps_adm_appl_prog
acad_career
admit_term

ps_uhir_stdnt_strm
acad_career
stdnt_car_nbr
uhir_first_term

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Query Training

- Class Length
  - Fifteen hours
  - 5 consecutive days, 3 hours per day
- Participants
  - Users wanting access to be able to write queries in the PeopleSoft student module
- Frequency
  - 3 times a year (spring, summer, fall)
- Uses Training Database
- Partner with IT

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Query Training Outline

I: Query Fundamentals

II: Basic PeopleSoft Query Writing

III: Advanced PeopleSoft Query Writing

Appendix: Sample SQL Functions, Troubleshooting Queries, New Functionality, Assessment Exercises

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Query Training Topics

- Overview of Tables
  - UHIR Reporting Tables
  - Coordinating Board (CB) Report Tables
- Query Writing
  - Effective Date Logic
  - Query Methodology
  - Joins/Functions/Expressions
- Assessment Exercises

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Query Training Assessment

- Background
  - Goal: grant access to query production data
  - Needed to ensure that users understood how to accurately query data
- Format
  - 2 exercises; 1 beginner, 1 advanced
- Grading
  - Correct tables/fields
  - Joins
  - Output formatting
  - Expressions, functions, aggregation, etc.

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Example Assessment Exercise

Provide a list that displays the EMPLID and CUM_GPA for all students enrolled at the end of the term during Fall 2009 at UH if the student had a cumulative GPA of at least 3.0. If the student belonged to the Honors (R003) activity type, provide that additional information in a column (UHIR_ACTIVITY_TYPE). Also add a calculated column that combines the student's current Academic Standing code with their primary plan (with a dash in between), i.e. 'E-TELSBS'; the title of the column should be "Standing and Plan". The institution should be a run-time variable that defaults to value '00730', having a lookup against master table 'INSTITUTION_TBL' and having custom heading text that says "Enter the institution". Sort the data by activity type, then by student ID.

Tip: You should receive 18,144 rows of data.

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Query Tool Demonstration

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Thank you!!

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