Review of CUNYfirst Reporting Resources

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Presenters

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Logistics

• Reason for meeting – review current reporting resources for Wave 4 schools

• Logistics.
  – Length of meeting – one hour
  – Opportunities for questions: chat, email
  – Documents will be available on the CUNYfirst Reporting page:
    http://www.cuny.edu/about/administration/offices/CIS/CUNYfirst/reporting.html
• CUNYfirst Built-in Reports, Lists, Other Content-Specific Tools
• I-805 Interface
• Reporting Instances
• Resources from the Office of Institutional Research
• I-806 Administrative Data Warehouse
• Reporting Listserv
• Report Repository Project (CEMLI Search Tool)
• Strategic Vision
• Webinar Series
CUNYfirst
Built-in Reports,
Lists,
Other Content-Specific Tools
• The PeopleSoft platform delivers features that in some cases replace legacy reports:
  – Approval flows
  – Worklists
  – Queries
• Additionally, some screens provide data that was previously only available in reports

Always confirm with the functional staff that they need a report to replace the legacy one...
I-805 Interface
I-805 Interface

Goals & Objectives

• To support necessary shadow systems.
• As a supplement to transition reports and queries.
• May be necessary to support ad hoc reporting.
• 805 Listserv: CFIRST-805@LISTSERV.CUNY.EDU
Reporting Instances
Reporting Instances – What are they?

• Full nightly copy of HCM/CS pillar
• Full nightly copy of Finance pillar
• Include all production queries
• Allow creation and running of queries for all of your CUNYfirst data.
• Secured by Institution and data role.
Reporting Instances – What are they?

• Query Viewers can run queries on data they have access to
• Queries are run with the built-in Query Viewer
• Query Developers can create and run queries on data they have access to
• Queries are created with the built-in Query Manager (PS Query) tool
Reporting Instances – Run Queries

Sign in to CUNYfirst and choose a reporting instance.
The menu will include Reporting Tools.
You can choose from a list of queries.

### Query Viewer

Enter any information you have and click Search. Leave fields blank for a list of all values.

**Search By:**
- Query Name

*Search*

**Advanced Search**

### My Favorite Queries

<table>
<thead>
<tr>
<th>Query Name</th>
<th>Description</th>
<th>Owner</th>
<th>Folder</th>
<th>Run to HTML</th>
<th>Run to Excel</th>
<th>Run to XML</th>
<th>Schedule</th>
<th>Remove</th>
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</thead>
<tbody>
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<td>find person via emplid</td>
<td>Private</td>
<td></td>
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<td>Excel</td>
<td>XML</td>
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<td>Excel</td>
<td>XML</td>
<td>Schedule</td>
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<tr>
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<td>All records in PSQRYEXECLOG</td>
<td>Private</td>
<td></td>
<td>HTML</td>
<td>Excel</td>
<td>XML</td>
<td>Schedule</td>
<td></td>
</tr>
<tr>
<td>PSQRYSTATS</td>
<td>Show all records in PSQRYSTATS</td>
<td>Private</td>
<td></td>
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<td>Excel</td>
<td>XML</td>
<td>Schedule</td>
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<td>Show all records in PSQRYTRANS</td>
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<td>Schedule</td>
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<td>QUERY_STATISTICS_EXECLOG</td>
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<td>Excel</td>
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<td>Schedule</td>
<td></td>
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<td>Query_Statistics_Stats</td>
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<td>Excel</td>
<td>XML</td>
<td>Schedule</td>
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</tr>
<tr>
<td>STDNT_ENRL</td>
<td>stdnt_enrl</td>
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<td>Excel</td>
<td>XML</td>
<td>Schedule</td>
<td></td>
</tr>
<tr>
<td>CU_VIEW_SQL</td>
<td>See the SQL behind any view.</td>
<td>Public</td>
<td></td>
<td>HTML</td>
<td>Excel</td>
<td>XML</td>
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<tr>
<td>QCCV_CU_CATALOG</td>
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<td></td>
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<tr>
<td>QCCV_SR_DEG_AWARDED_DEPT</td>
<td>Degree Awarded by Dept</td>
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<td></td>
<td>HTML</td>
<td>Excel</td>
<td>XML</td>
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</table>

**Clear Favorites List**
Run the query, entering required prompt information.

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<tr>
<th>Course Id</th>
<th>Other Id</th>
<th>Course Offer Effective Date</th>
<th>Course Catalog Effective Date</th>
<th>Subject Equivalent Status</th>
<th>Subject Title Effective Date</th>
<th>Course Component Effective Date</th>
<th>Approved</th>
<th>Schedule Course Code</th>
<th>Course Org</th>
<th>Career</th>
<th>External Subject</th>
<th>Subject</th>
<th>Catalog Number</th>
<th>Primary Component</th>
<th>Catalog Course Component</th>
<th>Component Component</th>
<th>Options Component</th>
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<td>0822/22/2010 A</td>
<td>0822/22/2010</td>
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<td>0822/22/2010</td>
<td>A</td>
<td>Y</td>
<td>LAS</td>
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<td>UGRD</td>
<td>BIOL</td>
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<td>UGRD</td>
<td>BIOL</td>
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<td>3L</td>
<td>LEC</td>
<td>LEC</td>
<td>LEC</td>
<td>N</td>
<td></td>
</tr>
<tr>
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<td>0822/22/2010 A</td>
<td>0822/22/2010</td>
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<td>0822/22/2010</td>
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<td>Y</td>
<td>LAS</td>
<td>BIOL</td>
<td>UGRD</td>
<td>BIOL</td>
<td>BIOL</td>
<td>4</td>
<td>LEC</td>
<td>LEC</td>
<td>LEC</td>
<td>N</td>
</tr>
</tbody>
</table>
The Query Manager is used by developers.
Document home:
http://www.cuny.edu/about/administration/offices/CIS/CUNYfirst/reporting.html
Reporting Instances – Getting Access

See FAQ
• Learning PS Query.
  – Each campus has at least one person trained with the HCM go-live (2009).
  – **Upcoming webinar.**

• Documentation:
  – Online Help.
  – PS Query PeopleBooks.

• Listserv
Listserv

• Send an email to listserv@listserv.cuny.edu.

• Leave the subject blank.

• In the body (message) put subscribe cunyfirst-reporting
Entity-Relationship Relationship Diagrams - see FAQ
Resources from the Office of Institutional Research and Assessment
The Office of Institutional Research conducts a wide variety of quantitative analyses to guide policy and evaluate academic programs and administrative processes at CUNY. The office collects, manages and organizes data to support the analytic and reporting needs of the University including mandatory federal, state and city reports, ad-hoc requests, grant applications and major projects, such as enrollment management.
OIRA hosts a range of reporting resources

• OIRA Websites:
  – Easily accessible reports for the public and University users

• Institutional Research Database (IRDB)
  – Data warehouse of fixed, frozen extracts of enrollment, student characteristics, course characteristics, application data, financial aid data optimized for reporting

• CUNY Business Intelligence Light (CBIL)
  – Daily-refreshed enrollment and course data from CUNYfirst to facilitate daily enrollment tracking

• I184-a: generates Show, Performance, and Graduation files on request

• CUNY Analytics
  – New, web-based reporting platform with daily updates rolling out in 2014
• [link: www.cuny.edu/ir]
• Official reports of census data and outcomes for all colleges: retention, graduation, degrees, student profiles
• Key reports updated annually or by term
• Publicly available
OIRA Password-Protected Website

- Detailed Official Enrollment Reports
- Interactive drill-down reports of applicants, admits, and enrollees by demographic characteristics and academic indicators
- Passwords available to CUNY staff by request

Enrollment Management Reports

Reports On Enrollment Management Topics

- Presentation: Changes in Undergraduate Student Profile: Implications for New Student Orientation (3-13-12)
- Enrollment by Credits Attempted (2-14-12)
- Trends in First-time Freshman Characteristics by College (added 11-32-11)
- Trends in Baccalaureate Enrollment and Degrees Granted by Major
- Trends in Master's Degree Enrollment and Degrees Granted by Major
- Trends in Advanced Certificate Enrollment and Degrees Granted by Major
- Applications, Admissions, and Enrollment by Phase and College

Applications, Admissions, and Enrollment: Drill-Down Reports

*Fall 2011 data for Kingsborough and LaGuardia are preliminary

ENMG_0001_Applications, Admission and Enrollment, by College and Choice
ENMG_0002_Applications, Admission and Enrollment by College, Race/Ethnicity, Gender and High School
ENMG_0003_Applications, Admission and Enrollment by College, SAT Score Band and High School
ENMG_0004_Applications, Admission and Enrollment, by College, Region, County/Borough and High School
ENMG_0005_Applications, Admission and Enrollment, by College, Region, County/Borough, High School and SAT Score Band
ENMG_0006_Applications, Admission and Enrollment by College, SAT Score Band, Race/Ethnicity, Borough/County and High School
Institutional Research Database (IRDB)

- Official fixed, frozen repository of University-wide historical enrollments and ancillary data
  - Optimized for reporting, e.g.,
    - Trends in enrollment by college, term, degree, major
    - Tracking freshman cohorts and transfer cohorts for retention and graduation statistics
  - Supports “canned” official reports/workbooks and ad hoc queries
  - Data are very robust, but complex
- New data added every term after census date
- Available through Discoverer End-User Layer to college IR offices and Central Office researchers
**Institution Retention and Graduation Rates of Full-time First-time Freshmen in Associate Programs**

*Retention rates are calculated as the percentage of students who are still enrolled at the college of entry in the subsequent fall term(s) and have not earned the degree pursued. Graduation rates are calculated as the percentage earning a degree at the college of entry any time prior to the start of the subsequent fall term(s). Students who earned a degree lower than that pursued, but who are still enrolled for the degree pursued in the subsequent fall term(s), are counted as still enrolled and are not counted as having earned the lower degree. Students who earned a degree lower than that pursued and who are not still enrolled in the subsequent fall term(s) are counted as having earned the lower degree. Students who earn both an associate and a baccalaureate degree at the college of entry (at comprehensive colleges) are counted in both associate degree and baccalaureate degree rows. Therefore, the sum of the associate and baccalaureate rows for a given year may be greater than the total row.*

<table>
<thead>
<tr>
<th>Page Items</th>
<th>Degree</th>
<th>Associate</th>
<th>Year 1 Fall - New Student Desc</th>
<th>First-time Freshmen</th>
<th>College of Entry - Queensborough</th>
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<tbody>
<tr>
<td>Total Cohort</td>
<td></td>
<td></td>
<td>Fall 996</td>
<td>Fall 997</td>
<td>Fall 998</td>
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<tr>
<td>Year 1 Still Enrolled</td>
<td>1,560</td>
<td>1,494</td>
<td>1,336</td>
<td>1,033</td>
<td>1,600</td>
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<tr>
<td>Year 2 Still Enrolled</td>
<td>616</td>
<td>500</td>
<td>614</td>
<td>654</td>
<td>617</td>
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<tr>
<td>Year 2 Earned Associate Degree</td>
<td>428</td>
<td>396</td>
<td>409</td>
<td>424</td>
<td>421</td>
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<tr>
<td>Year 2 Earned Baccalaureate Degree</td>
<td>1.3</td>
<td>1.9</td>
<td>1.7</td>
<td>1.9</td>
<td>2.0</td>
</tr>
<tr>
<td>Year 3 Still Enrolled</td>
<td>229</td>
<td>212</td>
<td>19.7</td>
<td>20.0</td>
<td>20.2</td>
</tr>
<tr>
<td>Year 3 Earned Associate Degree</td>
<td>9.6</td>
<td>11.2</td>
<td>13.2</td>
<td>13.8</td>
<td>12.1</td>
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<tr>
<td>Year 3 Earned Baccalaureate Degree</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Year 4 Still Enrolled</td>
<td>113</td>
<td>108</td>
<td>102</td>
<td>101</td>
<td>9.5</td>
</tr>
<tr>
<td>Year 4 Earned Associate Degree</td>
<td>10.9</td>
<td>16.4</td>
<td>18.8</td>
<td>18.9</td>
<td>17.7</td>
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<tr>
<td>Year 4 Earned Baccalaureate Degree</td>
<td>0.3</td>
<td>0.5</td>
<td>0.4</td>
<td>0.7</td>
<td>0.6</td>
</tr>
<tr>
<td>Year 5 Still Enrolled</td>
<td>6.9</td>
<td>6.8</td>
<td>6.1</td>
<td>5.6</td>
<td>5.2</td>
</tr>
<tr>
<td>Year 5 Earned Associate Degree</td>
<td>21.0</td>
<td>19.4</td>
<td>22.4</td>
<td>25.0</td>
<td>20.4</td>
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<tr>
<td>Year 5 Earned Baccalaureate Degree</td>
<td>3.9</td>
<td>2.9</td>
<td>2.7</td>
<td>2.4</td>
<td>3.0</td>
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<tr>
<td>Year 6 Still Enrolled</td>
<td>8.5</td>
<td>8.6</td>
<td>8.3</td>
<td>8.0</td>
<td>7.7</td>
</tr>
<tr>
<td>Year 6 Earned Associate Degree</td>
<td>22.6</td>
<td>20.5</td>
<td>23.4</td>
<td>26.6</td>
<td>22.2</td>
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<tr>
<td>Year 6 Earned Baccalaureate Degree</td>
<td>6.1</td>
<td>6.0</td>
<td>5.7</td>
<td>5.3</td>
<td>5.1</td>
</tr>
<tr>
<td>Year 7 Still Enrolled</td>
<td>22.6</td>
<td>22.4</td>
<td>22.4</td>
<td>22.4</td>
<td>22.4</td>
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<tr>
<td>Year 7 Earned Associate Degree</td>
<td>1.7</td>
<td>1.7</td>
<td>1.7</td>
<td>1.7</td>
<td>1.7</td>
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<tr>
<td>Year 7 Earned Baccalaureate Degree</td>
<td>24.7</td>
<td>22.1</td>
<td>24.7</td>
<td>22.0</td>
<td>23.6</td>
</tr>
<tr>
<td>Year 8 Still Enrolled</td>
<td>7.0</td>
<td>6.8</td>
<td>6.4</td>
<td>10.4</td>
<td>8.6</td>
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<td>22.1</td>
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<td>0.8</td>
<td>1.2</td>
<td>1.1</td>
<td>1.0</td>
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<tr>
<td>Year 9 Still Enrolled</td>
<td>29.1</td>
<td>22.5</td>
<td>25.3</td>
<td>25.1</td>
<td>24.5</td>
</tr>
<tr>
<td>Year 9 Earned Associate Degree</td>
<td>8.4</td>
<td>8.4</td>
<td>9.5</td>
<td>9.5</td>
<td>10.0</td>
</tr>
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<td>25.2</td>
<td>22.6</td>
<td>25.3</td>
<td>25.1</td>
<td>24.5</td>
</tr>
</tbody>
</table>
IRDB Data Flows

Extract and Transform

Load and Transform

End-User Layer

Transactional Systems

Data Extraction

SIMS ➔ Show-reg

BMCC/Banner ➔ Show-reg

CUNYFirst Campus Solutions ➔ 184-a

Applications (CAS)

Skills (SKAT)

Financial Aid (SF188)

Clean data and load staging tables

Normalize data and Create Fact and Dimension Tables

IRDB

Views and Security Controls

Discoverer Presentation Layer
CUNY Business Intelligence Lite (CBIL)

- Enrollment and course data to facilitate Flash reporting and daily enrollment tracking
  - Only available for schools on CUNYFirst
  - Supports “canned” official report/workbooks and *ad hoc* queries

- Refreshed daily from Administrative Data Warehouse (ADW), 24-hour lag on transactional data

- Available automatically to college IR offices at schools on CF (same end-user layer as IRDB)
  - Registrars and Enrollment Managers may request access from OIRA
## CBIL FLASH DATASET
### Undergraduate Enrollment

<table>
<thead>
<tr>
<th>IR Class Level</th>
<th>IR Degree Status</th>
<th>Category</th>
<th>IR Full-time/Part-time</th>
<th>IR Headcount</th>
<th>CF Units Progress Sum</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDERGRADUATE</td>
<td>DEGREE</td>
<td><em>Regular</em></td>
<td>full-time</td>
<td>47,462</td>
<td>681,521.0</td>
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<td></td>
<td></td>
<td></td>
<td>part-time</td>
<td>29,490</td>
<td>207,965.5</td>
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<tr>
<td></td>
<td>SEEK/CD</td>
<td><em>full-time</em></td>
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<td>2,553</td>
<td>36,513.5</td>
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<tr>
<td></td>
<td></td>
<td><em>part-time</em></td>
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<td>393</td>
<td>2,966.5</td>
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<tr>
<td><strong>DEGREE STATUS SUBTOTAL</strong></td>
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<td></td>
<td></td>
<td><strong>79,898</strong></td>
<td><strong>928,966.5</strong></td>
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<tr>
<td>NONDEGREE</td>
<td>High School Student</td>
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<td>78</td>
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<td></td>
<td></td>
<td></td>
<td>part-time</td>
<td>3,525</td>
<td>13,867.5</td>
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<tr>
<td></td>
<td>Other</td>
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<td>144</td>
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<td></td>
<td><em>part-time</em></td>
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<td>1,526</td>
<td>9,090.5</td>
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<td><strong>DEGREE STATUS SUBTOTAL</strong></td>
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<td></td>
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<td><strong>5,273</strong></td>
<td><strong>26,006.0</strong></td>
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<td><strong>Undergraduate Total</strong></td>
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<td></td>
<td></td>
<td><strong>85,171</strong></td>
<td><strong>954,972.5</strong></td>
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CBIL Data Flows

Extract and Transform -> Load and Transform -> End-User Layer

Transactional Systems

Data Extraction

CUNYFirst Campus Solutions

PS-806 extract -> ADW -> DB Link and SQL Script

Transform CUNYFirst data into Show-reg fields and Create Fact and Dimension Tables

CBIL

Views and Security Controls

Discoverer Presentation Layer

Applications (CAS)
OIRA can generate versions of the Show, Performance, and Graduation Files for Colleges on request

- Output from I-184a interface will be reformatted to conform to the historical formats of the files formerly produced from SIMS.
- Show files generated from the I-184a will continue to be used for TAP certification and other legacy applications.
OIRA CUNY Analytics

- OIRA will launch a new web-based platform (OBIEE) for delivering similar data content as CBIL
- Features dashboard-style reports and options for scheduled and ad-hoc report development
- Some content will be more targeted to user groups, such as enrollment managers or faculty workload coordinators
- Refreshed daily and eventually capable of intra-day updates
- Test rollout beginning in Summer 2014, with wider access expected for Fall 2014
I-806
Administrative Data Warehouse
• Extraction of 130 tables (mostly CS, with some tables from HCM) from CUNYfirst each night into Oracle Database.

• AKA ADW, PWERP, pdADW

• Each night updates include students who are enrolled this semester, or the previous or the next. All others stay as they were.

• ADW includes data from SIMS schools in separate tables for a full picture of the student.
I-806 Extract to ADW Interface

- ADW data can be accessed via the Citrix remote desktop system.
- Data can be read with Crystal Reports and SQL Developer.
- Developed Crystal Reports can be shared via the Business Objects Enterprise Reporting system.
- To request access, the form can be found at:
  http://www.cuny.edu/about/administration/offices/CIS/security/pnp/Data_Warehouse_Use_and_access_Rules.doc
Report Repository Project
(CEMLI Search Tool)
Report Repository (CEMLI Search Tool)

Intended to be a repository of information about, and links to:

- Delivered Reports and Queries
- CUNY-built Reports and Queries

Organized by:

- Pillar
- Module
Main Menu Navigation: CUNY > CEMLI Search
Various Search Criteria
CEMLI Search Results
### View Cemli Info

#### R891-Admissions Interface Audit Rpt

**Description**

Purpose: As a part of CAS and ASTA interface, the data from the incoming CAS and ASTA flat files are loaded into the Loading tables. The loaded data is then transformed using a Crosswalk table and moved to the Staging table and then finally to the CUNYfirst tables. The need of this report is to identify the erroneous set of information between the crosswalk table and the CUNYfirst tables before the final process is run to move the admissions information from the Staging tables to the CUNYfirst tables to fix the error records to minimize the reruns of the process.

Use: This report is expected to match the values in the Loading Tables with the Crosswalk Table for the CAS and the ASTA interfaces to identify missing codes for the following 3 key values -
(a) Programs (curriculum)
(b) Application Center
(c) Language

If Crosswalk table does not have a mapping row for any code in the Loading Table, then that record will not get transformed to the Staging table and will kick out as an error. This report should be run after the CAS/ASTA data is moved to the Loading tables by the BPEL Server.

**Selection Values:**
None

**Results:**
The report will display the CAS/ASTA ID, code object from the crosswalk table, the legacy code for which the mapping is missing in the crosswalk table and a description of the error message.
### Component Info

**Component:** CU_R891  
**Navigation:** CUNY > Campus Solutions > CS Reports > Student Admissions > Admissions Interface Audit Rpt

### Pages

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### Accessible Roles

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### Notes

**Subject:**  
**Details:**
Strategic Vision
Strategic Vision – The Problem

Get better at our mission.
• Improve retention rates.
• Improve graduation rates.
• Improve financial situation.
• Improve ___ (fill in the blank).

Be able to answer questions.
• What is the cost of a seat in a class? How do the schools compare?
• What adjuncts are eligible for benefits?
• What is student enrollment and total credit hours across terms?
• What are admittance counts by College Admissions Average (CAA)?
• How many ___ (fill in the blank)?

Use data to get there.
Strategic Vision – The Goals

We want to:

• Establish an accessible near-real-time copy of all CUNYfirst data.

• Establish and promote modern shared technical tools for creating queries, reports, dashboards, analyses, and more.

• Define the architecture to allow the eventual inclusion of non-CUNYfirst data.

• Define the architecture to scale to the whole University.

• Establish data governance:
  – Expand the work of the Office of Institutional Research in creating meaningful common definitions.
  – Authority over areas of data.
  – Acceptable levels of error.
Strategic Vision – the Project

Oracle Goldengate - Oracle Business Intelligence Analytics
Webinar Series
I. Review of Reporting Resources - **Friday, March 21, 10:00am** – See meeting instructions below.
   a. CUNYfirst- Built-in Reports, Lists, Other Content-Specific Tools
   b. CUNYfirst CEMLI Search
   c. i805 Interface File,
   d. ADW Database Subset,
   e. CUNYfirst Reporting Instances
   f. OIRA Sources
   g. Reporting Listserv
   h. Strategic Vision

II. Intro to CUNYfirst for Query Developers – **Wednesday, March 26, 11:00**
   a. Navigation
   b. Effective Dating and Effective Status
   c. CEMLI Search
   d. Production Reports

III. CF Data Structures 1 – Student Records - **Date/time to be announced**
   a. Review records and relationships with respect to students

IV. Using PS Query in the Reporting Instances - **Date/time to be announced**
   a. Steps to build a query
   b. Effective Dating
   c. Security Joins
   d. Gotchas
   e. Review of Common Questions
http://www.cuny.edu/about/administration/offices/CIS/CUNYfirst/reporting.html