Lessons Learned in Education: Aligning Florida’s K-20 Data Collection Processes and Reporting

Dr. Andre Smith
April 3, 2017
Overview

- Organizational Overview
- Statewide Longitudinal Data System Grant
- SAS Solution
- FLEID Overview
- EDStats Overview
- DQ2 Overview
- Questions
Organizational Overview

Division of Technology & Innovation

- Data Center
- Application Development & Support
- Education Technology
- Data Systems
The implementation of the FLEID is intended to facilitate consistent student and staff person-level reporting during submission periods, reduce the need for the submittal of certain repetitive types of information and enable linkages of data over time and across sectors.

A key component of the new enterprise-wide platform is the Data Quality (DQ2) trial edits application that school districts can use to run their data through the various edits without using expensive mainframe CPU time.

The user-friendly portal provides public access to dashboards, customizable reports and data download. This portal provides access to standard and interactive reports that provide overall and demographic information in a variety of formats including dashboards, graphs, tables, maps and custom reports based on the user’s educational data interest.
SAS Solution

Enterprise BI Server

Academic Professional Training

Master Data Management

Advanced Client Support

Consultant Services
Florida Education Identifier - A code issued by the Florida Department of Education used to uniquely identify a person in Florida’s educational data system.

Florida Statute 1008.386

1008.386 Florida student identification numbers.—

(1) When a student enrolls in a public school in this state, the district school board shall request that the student provide his or her social security number and shall indicate whether the student identification number assigned to the student is a social security number. A student satisfies this requirement by presenting his or her social security card or a copy of the card to a school enrollment official. However, a student is not required to provide his or her social security number as a condition for enrollment or graduation. The Commissioner of Education shall assist school districts with the assignment of student identification numbers to avoid duplication of any student identification number.

(2) The department shall establish a process for assigning a Florida student identification number to each student in the state, at which time a school district may not use social security numbers as student identification numbers in its management information systems.

(3) The State Board of Education may adopt rules to implement this section.

History.—s. 385, ch. 2002-387; s. 3, ch. 2014-41.
FLDOE acquired the Master Data Management (MDM) tool

FLDOE worked with SAS Consultant Services to configure MDM matching algorithms, file transfer processes and custom user interface for resolving near match records

FLDOE engaged a pilot stakeholder group to review match data elements, match algorithms and custom user interface

Piloted FLEID system during 2015-16 school year

Operationalize FLEID system during 2016-17 school year
High Level Process Flow (FLEID)

1. TIBCO SECURE - FTP
   - Master File
   - Returned Master File

2. File Submission
   - MDM Processing
     - Match
     - Validate
     - FLEID Generation

3. SQL Server DB
   - VAULT

4. Single Sign-On
   - Secure FLEID Portal
   - Maintenance Interface

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High Level Process Flow (FLEID)

Step 1: Master File Submission

Master File Includes
- Primary Match Columns
- Near Match Columns
- Administrative/DOE Columns

Recap of Master File Requirements

Primary Matching Columns/High Confidence Columns
- Person Number | Student ID or Person Number
- Alias Number
- Local Number
- SSN
- First Name
- Last Name
- Date of Birth
  - Middle Name
  - Former/Maiden Name
  - Appendage/Suffix

Near Match Columns
- District Number & School Number
- Institution ID
- Certificate Number
- Gender
- Race & Race Indicators
  - Birthplace
  - 1st Time Entered Florida
  - 1st Time Entered US
  - Prior School of Enrollment

Administrative/DOE Columns
- FLEID
- DOB Year
- DOB Month
- DOB Day
- Record Type
- Create Date
- Source Indicator

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High Level Process Flow (FLEID)

Step 2: Secure FTP Transfer & MDM Processing

- Prerequisite: Access to TIBCO Secure Area needs to be established before starting this step
- The master files are blind transferred via the secure TIBCO Site using FTP
- Once files are submitted, they immediately land in the DOE staging area for processing
- The file format of the master file submitted is validated and reviewed to determine accuracy
- The (valid) records submitted will be matched against the vault
- The records found in the vault using high confidence match columns are assigned FLEID’s

- Records are stored securely within the vault and are only accessible by FLEID Team
If the record didn’t previously exist in the system within the vault and doesn’t near match to an existing record; a new FLEID is generated.

Two files are then generated for the LEA’s retrieval:

- **Matched FLEID Master File** with assigned FLEID’s for exact or high confidence matches or newly assigned FLEID’s for new records
- **Reject file**, indicating the errors encountered with file formatting during file loading

Files outputted are deleted after 7 days and can be regenerated on request.
Step 4: Access Load Statistics & Near Matches Information

- Prerequisite: Access to SSO needs to be established before starting this step
- After master file submission, you can now view the load information
- LEA’s logon to the single sign-on site to access the secure FLEID portal
- The information loaded into the vault is made available via a user interface
- User Interface to submit, search, and review near matched Individuals in the Vault
- Users will have access to the near match records and can work on resolutions

Match Resolution Options

Near matches can be:
- Linked to an existing FLEID
- Assigned a new FLEID.

Merges/Splits:
- Contact FLEID Team
Current Near Match Record Status

<table>
<thead>
<tr>
<th>Days</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10 Days</td>
<td>48</td>
</tr>
<tr>
<td>11-20 Days</td>
<td>37</td>
</tr>
<tr>
<td>21-30 Days</td>
<td>15</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>NearMatchID</th>
<th>Date/time Rec</th>
<th>Status</th>
<th>Owner</th>
<th>FLEID</th>
<th>First</th>
<th>Middle</th>
<th>Last</th>
<th>Gender</th>
<th>DoB</th>
<th>Type</th>
<th>District Num</th>
<th>School Number</th>
<th>Person Num</th>
</tr>
</thead>
<tbody>
<tr>
<td>728891</td>
<td>2/20/2014 10:03AM</td>
<td>OPEN</td>
<td>Changa James Han</td>
<td>M</td>
<td>12/31/1988</td>
<td>STU</td>
<td>5</td>
<td>1234</td>
<td>7694</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>728872</td>
<td>2/25/2014 9:00AM</td>
<td>RESOLVED</td>
<td>patcam FL103987463627 Mady J Tchoua-Angorg</td>
<td>M</td>
<td>12/31/1988</td>
<td>STU</td>
<td>7</td>
<td>1653</td>
<td>9437</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>728791</td>
<td>4/28/2014 9:45AM</td>
<td>OPEN</td>
<td>Jane Adams Smith</td>
<td>F</td>
<td>1/1/1981</td>
<td>EMP</td>
<td>5</td>
<td>1542</td>
<td>123452487 956322652</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>728734</td>
<td>5/1/2014 8:02AM</td>
<td>OPEN</td>
<td>Emily Sue Roberts</td>
<td>F</td>
<td>1/1/1986</td>
<td>STU</td>
<td>5</td>
<td>1542</td>
<td>536842174 512879132</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Near Match Resolution**

**Lookup**

**FTP Portal**

**Near Match Directory**

**File Management**

[Generate Resolved File]
FLEID Lookup

- **First**: Patrick
- **Middle**: **Required Fields**
- **Last**: Campbell
- **DOB**: 12/31/1988
- **Gender**: M
- **Place of Birth**: Wilson
- **Race**: C
- **SSN**: **Required Fields**
- **Local ID**: **Required Fields**
- **Unit ID**: **Required Fields**
- **Alias ID**: **Required Fields**

**Required Fields**: * Required Fields

**One of the above required**: **Required Fields**

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<table>
<thead>
<tr>
<th>Entity Type</th>
<th>Entity Name</th>
<th>Contact Name</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>K12 District</td>
<td>Baker County School District (02)</td>
<td>Smith, James</td>
<td>850-555-5127</td>
<td><a href="mailto:james.smith@baker.k12.fl.us">james.smith@baker.k12.fl.us</a></td>
</tr>
<tr>
<td>K12 District</td>
<td>Bay County School District (03)</td>
<td>Johnson, Kay</td>
<td>850-555-3279</td>
<td><a href="mailto:kay.johnson@bay.k12.fl.us">kay.johnson@bay.k12.fl.us</a></td>
</tr>
<tr>
<td>K12 District</td>
<td>Bradford County School District (04)</td>
<td>Fisher, Carrie</td>
<td>850-555-7192</td>
<td><a href="mailto:carrie.fisher@bradford.k12.fl.us">carrie.fisher@bradford.k12.fl.us</a></td>
</tr>
<tr>
<td>K12 District</td>
<td>Brevard County School District (05)</td>
<td>Hammil, Mark</td>
<td>850-555-9972</td>
<td><a href="mailto:mark.hamnil@brevard.k12.fl.us">mark.hamnil@brevard.k12.fl.us</a></td>
</tr>
<tr>
<td>K12 District</td>
<td>Broward County School District (06)</td>
<td>Miller, Maggie</td>
<td>850-555-6611</td>
<td><a href="mailto:maggie.miller@broward.k12.fl.us">maggie.miller@broward.k12.fl.us</a></td>
</tr>
<tr>
<td>College</td>
<td>Tallahassee Community College</td>
<td>Gonzales, Carlos</td>
<td>850-555-4412</td>
<td><a href="mailto:carlos.gonzales@tcc.edu">carlos.gonzales@tcc.edu</a></td>
</tr>
<tr>
<td>College</td>
<td>Miami-Dade Community College</td>
<td>Johnson, Billy</td>
<td>850-555-7917</td>
<td><a href="mailto:bill.johnson@mdcc.edu">bill.johnson@mdcc.edu</a></td>
</tr>
<tr>
<td>University</td>
<td>Florida State University</td>
<td>Smith, Trevor</td>
<td>850-555-1928</td>
<td><a href="mailto:trevor.smith@fsu.edu">trevor.smith@fsu.edu</a></td>
</tr>
<tr>
<td>Workforce</td>
<td>Lively Technical Center</td>
<td>Baines, Ursula</td>
<td>850-555-1192</td>
<td><a href="mailto:ursula.baines@ltc.fl.edu">ursula.baines@ltc.fl.edu</a></td>
</tr>
<tr>
<td>Input Files</td>
<td>Date/Time</td>
<td>Data 1</td>
<td>Data 2</td>
<td>Data 3</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>Sample_Input_X.txt</td>
<td>4/28/2014 10:03AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample_Input_y.txt</td>
<td>4/28/2014 7:03AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample_Input_z.txt</td>
<td>4/6/2014 11:12AM</td>
<td>4/6/2014 11:15AM</td>
<td>100</td>
<td>70</td>
</tr>
<tr>
<td>Sample_Input_w.txt</td>
<td>4/2/2014 09:06AM</td>
<td>4/2/2014 9:30AM</td>
<td>1000</td>
<td>650</td>
</tr>
</tbody>
</table>
### Output Files

<table>
<thead>
<tr>
<th>File Name</th>
<th>Date/Time</th>
<th>Date/Time</th>
<th>Score</th>
<th>Type</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample_Output.txt</td>
<td>4/06/2014 11:12PM</td>
<td>4/06/2014 11:15AM</td>
<td>5</td>
<td>Interactive</td>
<td>4/07/2014 8:00AM</td>
</tr>
<tr>
<td>Sample_Output.txt</td>
<td>4/06/2014 11:12PM</td>
<td>4/06/2014 11:15AM</td>
<td>93</td>
<td>Standard</td>
<td>4/07/2014 7:00AM</td>
</tr>
<tr>
<td>Sample_Output.txt</td>
<td>4/02/2014 9:06AM</td>
<td>4/02/2014 9:30AM</td>
<td>80</td>
<td>Near Match</td>
<td>4/06/2014 1:00PM</td>
</tr>
</tbody>
</table>
Over the past year:

**K12 File Submissions (Uploads/Downloads & Matches) >>**

- K12 Records submitted for 2015-16: 2,118,246 Records by 73 Districts
- K12 Records submitted for 2014-15: 1,511,783 Records by 36 Districts
- K12 Records submitted for 2013-14: 2,034 Records by 5 Districts

Brian provides assistance in this area
EDStats Introduction

What is it?

- A public gateway to information about Florida education that provides stakeholders with a tool for informing decisions regarding education in Florida.

- Launched March 2015.

- Development is ongoing.

What is the purpose?

- Increase the advancement of Florida students and educational institutions by improving and expanding access to data.

- Provides access through a single point of entry.

- Provides interactive reports for select subgroups.
System Requirements:

1. How to add this site to your favorites "Bookmark this site".

2. This website is best viewed using Internet Explorer. You may need to add this website to your "trusted sites" to successfully download files.

3. The browser’s Back button is not supported. Please use the navigation links provided within the interactive reports.

4. Your session will time out after five minutes of inactivity.
Welcome to Florida’s PK-20 Education Information Portal

Florida’s PK-20 Education Information Portal connects people with reports and statistical information about PK-12, college, career and adult education and employment outcomes for Florida students, staff and schools. The links for each area below provides access to standard and interactive reports that provide overall and demographic information in a variety of formats including graphs, tables, maps and custom reports based on your educational interests. The goal of this portal is to increase the advancement of Florida students and schools by providing access to information that will facilitate important decisions about education in Florida.

An alternate version of the Florida PK-20 Education Information Portal is also available that presents the same information in plain text and tables designed to be readily accessible and usable by individuals using screen readers.

The following interactive environment is configured for one-thousand concurrent users. If you experience a delay, please try again at a later time.

PK-12 Public Schools

Florida College System

FETPIP

Career & Adult Education

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Welcome to Florida's PK-12 Education Information Portal

Welcome to Florida's PK-12 Education Reports Home page. The links below provide access to standard reports and a new interactive reports section that delivers information about Florida's PK-12 students and staff in a variety of formats including graphs, tables, maps and custom reports based on your educational interests.

An alternate version of the Florida PK-20 Education Information Portal is also available that presents the same information in plain text and tables designed to be readily accessible and usable by individuals using screen readers.

System Requirements:
1) This website is best viewed using Internet Explorer. You may need to add this website to your trusted sites to successfully download files.
2) The browser's Back button is not supported. Please use the navigation links provided within the interactive reports.
3) Your session will time out after five minutes of inactivity.

Interactive Reports

- Enrollment
- Fine Arts
- High School Graduation Rates

Standard and Archived Reports

- Additional PK-12 Reports

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### State Graduation Rates by Subgroup

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>2011-12</th>
<th>2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># Cohort</td>
<td># State Graduates</td>
</tr>
<tr>
<td>1-White</td>
<td>91,057</td>
<td>72,345</td>
</tr>
<tr>
<td>2-Hispanic</td>
<td>44,790</td>
<td>32,682</td>
</tr>
<tr>
<td>3-Black</td>
<td>43,408</td>
<td>27,660</td>
</tr>
<tr>
<td>4-Two or More Races</td>
<td>5,679</td>
<td>4,472</td>
</tr>
<tr>
<td>5-Asian</td>
<td>4,939</td>
<td>4,370</td>
</tr>
<tr>
<td>6-American Indian</td>
<td>581</td>
<td>405</td>
</tr>
<tr>
<td>7-Pacific Islander</td>
<td>32</td>
<td>20</td>
</tr>
</tbody>
</table>
District Level Views

50-PALM BEACH

Tips:
1) Use the left-hand navigation panel to select a school and view its results.
2) To expand data in table, click the plus symbol.
3) To drill down to the next level of data in the table, click on the down arrow.
4) All graphs on the page will synchronize to selected values.
5) To export data:
   > right click on the graph/table
   > select export graph/table data
   > select the file type
   > click ok

District Graduation Rates by Subgroup

<table>
<thead>
<tr>
<th>Year</th>
<th>2009-10</th>
<th>2010-11</th>
<th>2011-12</th>
<th>2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># District Graduates</td>
<td>% District Graduates</td>
<td># District Graduates</td>
<td>% District Graduates</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>5,454</td>
<td>6,776</td>
<td>5,224</td>
<td>6,687</td>
</tr>
<tr>
<td>Male</td>
<td>4,915</td>
<td>7,085</td>
<td>4,904</td>
<td>6,941</td>
</tr>
<tr>
<td>Not Reported</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: To protect the privacy of individual students, data are not reported when the total number of students in a group is fewer than 10. Asterisks will appear when data are suppressed.
### State Graduation Rates by Subgroup

<table>
<thead>
<tr>
<th>Year</th>
<th>2008-09</th>
<th>2009-10</th>
<th>2010-11</th>
<th>2011-12</th>
<th>2012-13</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># Cohort</td>
<td>% State Graduates</td>
<td># Cohort</td>
<td>% State Graduates</td>
<td># Cohort</td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>104,697</td>
<td>71.2%</td>
<td>100,055</td>
<td>74.7%</td>
<td>95,705</td>
</tr>
<tr>
<td>Hispanic</td>
<td>48,220</td>
<td>89.4%</td>
<td>40,514</td>
<td>89.4%</td>
<td>39,575</td>
</tr>
<tr>
<td>Black</td>
<td>51,301</td>
<td>93.7%</td>
<td>42,330</td>
<td>91.3%</td>
<td>41,410</td>
</tr>
<tr>
<td>2-Two or More Races</td>
<td>4,470</td>
<td>17.4%</td>
<td>5,223</td>
<td>17.8%</td>
<td>5,452</td>
</tr>
<tr>
<td>Asian</td>
<td>4,900</td>
<td>0.9%</td>
<td>4,137</td>
<td>0.9%</td>
<td>4,350</td>
</tr>
<tr>
<td>American Indian</td>
<td>590</td>
<td>0.6%</td>
<td>590</td>
<td>0.6%</td>
<td>401</td>
</tr>
<tr>
<td>7-Pac Islander</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not Reported</td>
<td>0</td>
<td>0.0%</td>
<td>0</td>
<td>0.0%</td>
<td>0</td>
</tr>
</tbody>
</table>

**Note:** To protect the privacy of individual students, data are not reported when the total number of students in a group is fewer than 10. Double asterisks (**) will appear when data are suppressed. When there are no students reported in a category, a dot (.) will appear in the table cell.

**User Tips:**
1. To expand data in the table, click the plus symbol.
2. To drill down to the next level of data in the table, click on the down arrow. All graphs on the page will synchronize to selected values.
3. To export data > right-click on the graph/table > select export graph/table data > select the file type > click ok.
What is Data Quality Edits (DQ2)?

- Created to provide a preflight capability to the survey collection process
- Reduces time and effort to process and resubmit files
- Reduces utilization of expensive mainframe resources
How does DQ2 work?
User Interface (UI) displaying Survey Submission List at initial sign on, no files processed
UI displaying Survey Submission List after files processed - selecting file and "Input Files" button

<table>
<thead>
<tr>
<th>Survey Year</th>
<th>Survey Type</th>
<th>Survey</th>
<th>Survey Description</th>
<th>Status</th>
<th>Submit Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2016</td>
<td>Student</td>
<td>2</td>
<td>Survey 2</td>
<td>ACTIVE</td>
<td>8/12/2016 12:56:24 PM</td>
</tr>
<tr>
<td>2015-2016</td>
<td>Student</td>
<td>3</td>
<td>Survey 3</td>
<td>ACTIVE</td>
<td>8/18/2016 11:06:24 AM</td>
</tr>
<tr>
<td>2015-2016</td>
<td>Student</td>
<td>5</td>
<td>Survey 5</td>
<td>ACTIVE</td>
<td>8/1/2016 1:11:24 PM</td>
</tr>
<tr>
<td>2013-2014</td>
<td>Student</td>
<td>2</td>
<td>Survey 2</td>
<td>ACTIVE</td>
<td>3/2/2015 5:03:20 PM</td>
</tr>
<tr>
<td>2013-2014</td>
<td>Student</td>
<td>5</td>
<td>Survey 5</td>
<td>ACTIVE</td>
<td>2/17/2015 1:13:20 PM</td>
</tr>
</tbody>
</table>

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UI display showing “Reports” button

<table>
<thead>
<tr>
<th>Student Course Schedule (F00775)</th>
<th>12</th>
<th>0</th>
<th>SUBMIT</th>
<th>0</th>
<th>8/15/2016 11:13:49 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/15/2016 11:13:49 AM</td>
<td>12</td>
<td>0</td>
<td>SUBMIT</td>
<td>0</td>
<td>8/15/2016 11:13:49 AM</td>
</tr>
<tr>
<td>8/15/2016 11:13:49 AM</td>
<td>12</td>
<td>0</td>
<td>SUBMIT</td>
<td>0</td>
<td>8/15/2016 11:13:49 AM</td>
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UI displaying a report and showing “Save to Excel” button
UI display after "D" File has completed

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Questions

Andre.Smith@fldoe.org
Phone # 850.245.0428