Introduction to Data Available from the University Data Warehouse

AITS – Decision Support

Spring 2017
Who We Are

Decision Support is a function of Administrative Information Technology Services (AITS) focused on and providing expertise in the areas of:

- Business Intelligence
- Data Visualization
- Data Warehousing
- Information Management
What We Do

- Transform raw data into valuable information for strategic decision making.
- Scope, design, and deliver solutions to business problems using a combination of enterprise data warehouse, business intelligence, and data visualization frameworks.
- Support the University by managing the data warehouse, providing access to the data, supporting report development, and providing data education and training.
<table>
<thead>
<tr>
<th>Products</th>
<th>REPORTS</th>
<th>OLAP CUBES</th>
<th>DASHBOARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Formatted results of queries that contain specific and useful information for decision-making and analysis.</td>
<td>Allows for quick and interactive analysis of data according to multiple dimensions that define a business problem.</td>
<td>A visual display of information on a single screen with the most important information needed to achieve an objective(s).</td>
</tr>
<tr>
<td>Account</td>
<td>Description</td>
<td>Date</td>
<td>RC</td>
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<tr>
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<td>PRELIM BUD ROLL</td>
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<td>HR Payroll 2018 MN 6.0</td>
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<td>Liquidate Payroll Receivable</td>
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<td>211300</td>
<td>Administrative/Professional Salary</td>
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<tr>
<td></td>
<td>Total Personnel Expenses</td>
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<td></td>
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<td>140650</td>
<td>Ushering/Event 18050004-Jun</td>
<td>21-JUN-2018</td>
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<tr>
<td>140650</td>
<td>Housekeeping/Cleaning Service</td>
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<tr>
<td>150118</td>
<td>Telephone Service Rent</td>
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<tr>
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<td>Central Telephone Equip Unit Charges</td>
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<td>150150</td>
<td>Monthly Line Avx</td>
<td>24-JUN-2018</td>
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<tr>
<td>150160</td>
<td>Central Monthly Service-Std Phones</td>
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<tr>
<td>150161</td>
<td>Monthly Voice Mail</td>
<td>24-JUN-2018</td>
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<tr>
<td>150161</td>
<td>Central Monthly Voice Mail Service</td>
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<tr>
<td>150161</td>
<td>Monthly EMER Ph Ser</td>
<td>24-JUN-2018</td>
<td>170</td>
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<tr>
<td>150161</td>
<td>Central Monthly Emergency Phone Serv</td>
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<td></td>
<td>Total Non-Personal Expenses</td>
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</table>
### Expense Trends Analysis

<table>
<thead>
<tr>
<th>Account Type Level 1 Title</th>
<th>Account Type Level 2 Title</th>
<th>Fiscal Year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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</thead>
<tbody>
<tr>
<td>Non-Personnel Expenses</td>
<td></td>
<td></td>
<td>$6,007,731.65</td>
<td>$8,862,372.42</td>
<td>$7,022,883.04</td>
<td>$6,944,892.27</td>
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<tr>
<td>Personnel Expenses</td>
<td>Academic Salary</td>
<td></td>
<td>$15,120,218.11</td>
<td>$15,085,817.69</td>
<td>$15,497,335.84</td>
<td>$16,105,509.80</td>
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<tr>
<td></td>
<td>Benefit Costs</td>
<td></td>
<td>$105,048.88</td>
<td>$100,122.85</td>
<td>$89,739.95</td>
<td>$47,991.66</td>
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<tr>
<td></td>
<td>Federal Work Study</td>
<td></td>
<td>$1,530.00</td>
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<tr>
<td></td>
<td>Staff Salary</td>
<td></td>
<td>$807,266.41</td>
<td>$761,239.63</td>
<td>$772,750.02</td>
<td>$836,220.69</td>
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<tr>
<td></td>
<td>Wages</td>
<td></td>
<td>$44,470.77</td>
<td>$81,818.06</td>
<td>$138,904.13</td>
<td>$64,200.36</td>
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<tr>
<td>Personnel Expenses Total</td>
<td></td>
<td></td>
<td>$16,077,004.17</td>
<td>$16,030,528.23</td>
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<tr>
<td>Transfers</td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$1,422,900.00</td>
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<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td>$22,084,735.82</td>
<td>$24,892,900.65</td>
<td>$24,944,512.98</td>
<td>$23,998,814.78</td>
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</table>
# Dashboards

## University of Illinois Report Card

### Fall 2016

<table>
<thead>
<tr>
<th>Category</th>
<th>U of I System</th>
<th>Urbana-Champaign</th>
<th>Chicago</th>
<th>Springfield</th>
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</thead>
<tbody>
<tr>
<td>Enrollment</td>
<td>81,499</td>
<td>46,951</td>
<td>29,120</td>
<td>5,428</td>
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<tr>
<td>Degrees Awarded</td>
<td>21,517</td>
<td>12,369</td>
<td>7,393</td>
<td>1,755</td>
</tr>
<tr>
<td>Graduation Rate (Undergraduate)</td>
<td>76%</td>
<td>85%</td>
<td>58%</td>
<td>50%</td>
</tr>
<tr>
<td>Retention Rate (Undergraduate)</td>
<td>89%</td>
<td>94%</td>
<td>80%</td>
<td>73%</td>
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</tbody>
</table>

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### Enrollment

**U of I System**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Value</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

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**2021 Target**

- U of I System: [Graph showing enrollment targets from 2007 to 2016]
Dashboards
Finance Data

Jerry Myers, Functional Area Coordinator
Data Sources

• Banner
• TEM
• Merchant Card
• PCard
• FAMIS
• PRZM
• Archibus
• iCS
• CMS vendor data

What’s not currently in the warehouse:
  ▶ iBuy
  ▶ Kauli Coeus
Types of Data

- Operating Ledger
- General Ledger
- Grants
- Fixed Assets
- Accounts Payable/Purchasing
- Accounts Receivable
- Budget and Planning
- Capital Projects
- Space Allocation
- University Contracts (Pilot release)
Terminology

• **EDW** – The data warehouse environment that AITS stores and combines data for use by all University of Illinois campuses

• **BusinessObjects** – an SAP suite of products which allows customers to view, sort and analyze data

• **EDDIE** – The University’s acronym (Enterprise Data Delivery Information Environment) for the web-based delivery of BusinessObjects

• **Webi** – short for Web Intelligence; the self-service environment for creating ad hoc queries, a component of BusinessObjects

• **Standard Report** – In the case of finance, a report developed with OBFS to ensure accurately deliver data commonly needed by customers, often business managers

• **Solution Library** – Reports created for specific purposes that can easily be edited for your specific needs
OBFS Resources

► Accounting & Financial Reporting website:
   https://www.obfs.uillinois.edu/accounting-financial-reporting/

► Additional training:
   https://www.obfs.uillinois.edu/training/materials/accounting/

► Sign up for additional training:
   https://www.obfs.uillinois.edu/training/registration/
Data Resources Available

- **Universe information:**
  https://www.aits.uillinois.edu/services/reports_and_data/about_data/metadata/metadata_for_business_objects_users/universe_information/

- **Solution Library reports:**
  https://www.aits.uillinois.edu/services/reports_and_data/reports/solution_library/finance/

- **Data models:**
  https://www.aits.uillinois.edu/services/reports_and_data/about_data/metadata/metadata_for_dataダウンローダー/data_models/
HR Data

Alison Campbell, Functional Area Coordinator
Data Sources

- Banner
- HRFE and PARIS
- Retiree Rehire
- HireTouch
- PRMS
Data Tricks and Tips

- Knowing which level to pull the data based on your reporting need
  - Position Data vs Job Data
  - Job Data vs Employee Data
  - Payroll Data vs Job Setup Data

- History results in returning many rows in your queries
  - Current Info Indicators and Data Status Descriptions
Data Security

- Much of the HR data is wide open
- Roles can limit fields available
- VPD applies to sensitive data
  - Such as employee home address, race/ethnicity, termination reason, etc.
- SSN – very limited access
Student Data

Eddie Lee, Functional Area Coordinator
Subject Areas

- Recruiting & Admissions
- Pre-Registration & Registration
- Academic History
- Course Catalog & Schedule

Security

CAMPUS | COLLEGE | DEPARTMENT

(default)
Subject Areas

**Recruiting & Admissions**
- Pre-Registration & Registration
- Academic History
- Course Catalog & Schedule

**Security**

<table>
<thead>
<tr>
<th>CAMPUS</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(default)</td>
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</tbody>
</table>
Subject Areas

Recruiting & Admissions

Pre-Registration & Registration

Academic History

Course Catalog & Schedule

Student Person Info
name, address, email, phone

Student Term Info
college, dept, program, attributes

Student Registration Info
registered, enrolled, level, status

Student Level GPA
cumulative GPA, GPA type

Course & Section Information
course subject, course number, section number, instructor

Security

CAMPUS  |  COLLEGE  |  DEPARTMENT

(default)
### Subject Areas

- Recruiting & Admissions
- Pre-Registration & Registration
- **Academic History**
- Course Catalog & Schedule

### Security

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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(default)</td>
</tr>
</tbody>
</table>

- **Student Person Info**
  - name, address, email, phone
- **Academic History Info**
  - term, academic standing, attributes
- **Academic Degree History**
  - degree code, degree status code
- **Student GPAs**
  - level GPA, term GPA
- **Overall, Institutional, Transfer Course Info**
  - subject, number, grade, instructor
Subject Areas

- Recruiting & Admissions
- Pre-Registration & Registration
- Academic History
  - Course Catalog & Schedule

Security

CAMPUS | COLLEGE | DEPARTMENT

(default)
Decision Support – AITS Resources

- Universe information: https://www.aits.uillinois.edu/services/reports_and_data/about_data/metadata/metadata_for_business_objects_users/universe_information/

- Solution Library reports: https://www.aits.uillinois.edu/services/reports_and_data/reports/solution_library/

- Metadata (including Universe Information and Solution Library): https://www.aits.uillinois.edu/services/reports_and_data/about_data/metadata/

- Data models: https://www.aits.uillinois.edu/services/reports_and_data/about_data/metadata_for_data_downloaders/data_models/
Questions?

▶ Contact us:
  dsuss@uillinois.edu

▶ Contact us:
  Jerry Myers (Finance)  Alison Campbell (HR)  Eddie Lee (Student)
  jdmyers6@uillinois.edu  acmpbell@uillinois.edu  edwinlee@uillinois.edu
  217-300-4966  217-333-4823  217-265-6519

▶ Our website:
  https://www.aits.uillinois.edu/services/reports_and_data

▶ Sign up for additional training:
  http://www.aits.uillinois.edu/services/reports_and_data/help_and_training/training/