Collaborating for Better Decisions Through Business Intelligence

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AITS / DS Merger

- Consolidation of similar services
- Realignment of services to consistent themes
  - Operations
  - Data Management
  - Decision Support Development
What’s new in the last year?

- HR Front End
- Financial Aid Census Data Mart
- Consolidated Faculty Analysis
- Expense Trends Analysis
- Grants Summary and Grants Lifecycle
Environmental Improvements

- New server hardware
- 24x7 availability
- Near real-time standby database
  - Quicker BCP recovery
  - Easier to create test instances
- ETL completion before 8:00am
New Server Hardware

Yearly dsprod CPU Usage

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>Average</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>2.133</td>
<td>14.383</td>
<td>0.660</td>
<td>43.100</td>
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<tr>
<td>System</td>
<td>2.174</td>
<td>6.466</td>
<td>0.887</td>
<td>29.341</td>
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<tr>
<td>Wait IO</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>Idle</td>
<td>95.688</td>
<td>79.152</td>
<td>35.718</td>
<td>98.454</td>
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</tbody>
</table>

Last data entered at Mon Nov 8 18:00:04 2010.
EDW Sessions per Year

- 2005
- 2007
- 2006
- 2008
- 2009
- 2010
EDW Usage by Application

- Microsoft: Sessions 48%, Users 15%
- Business Objects: Sessions 23%, Users 66%
- Other: Sessions 16%, Users 7%
- SAS: Sessions 6%, Users 2%
- Custom Application: Sessions 4%, Users 3%
- Developer Tools: Sessions 3%, Users 7%
New BI Technologies

- OLAP Cubes
  - Consolidated Faculty Analysis
  - Expense Trends Analysis
- Dashboards
  - Consolidated Faculty Analysis
OLAP Cubes

- Why all the excitement?
  - **Reports** are great for summaries, lists, or lookups when you know what you want
  - In **analysis**, one question leads to another
  - Cubes provide a powerful way to explore data from many angles to look for patterns, trends, anomalies
  - Excel front end with OLAP back end: familiar, easier, faster, connected
Looking at an OLAP cube

• Your Dean or Department Head asks:
  – How much of our spending is with iBuy vs. P-Card this year compared to last year?
  – How has the mix of funding sources we’re using to support Payroll changed over the past 5 years?
  – What categories of spending have increased the most over the past few years?
Supporting access to cubes

- Uses campus AD credentials
- Works best with Excel 2007 or 2010
  - Can work with Excel 2003, but often requires updates to be installed
- Requires Univ of Illinois IP address
  - Must use VPN when connecting from home
Dashboards

- Graphical representation of information that provides insight which leads to actionable responses
- The display of Performance Metrics to measure the operational success of your initiative
Looking at a Dashboard

• Comparing faculty teaching and sponsored research productivity in my department to the college overall
Coming Soon

- FTE Head Count Cube
- Codebook in the EDW
- Capital Programs in the EDW
- Business Objects XI Release 3.1
BO XI r3.1 Impact

- Approximately 2000 users have Desktop Intelligence installed on their system
  - Will require the upgrade to be installed
- Web Intelligence Rich Client
  - New reporting tool available
- OLAP browser available via EDDIE
  - Alternative to using Excel
- Supports Windows 7
What would help you?
EDW and BI Contacts

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