IDS Data Services

IDS Conference 2014

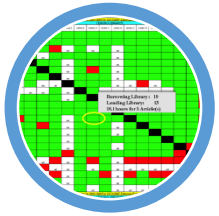
Syracuse, NY

Steelsen Smith
IDS Technology Development Team
Yale University Library IT - Systems

IDS PROJECT

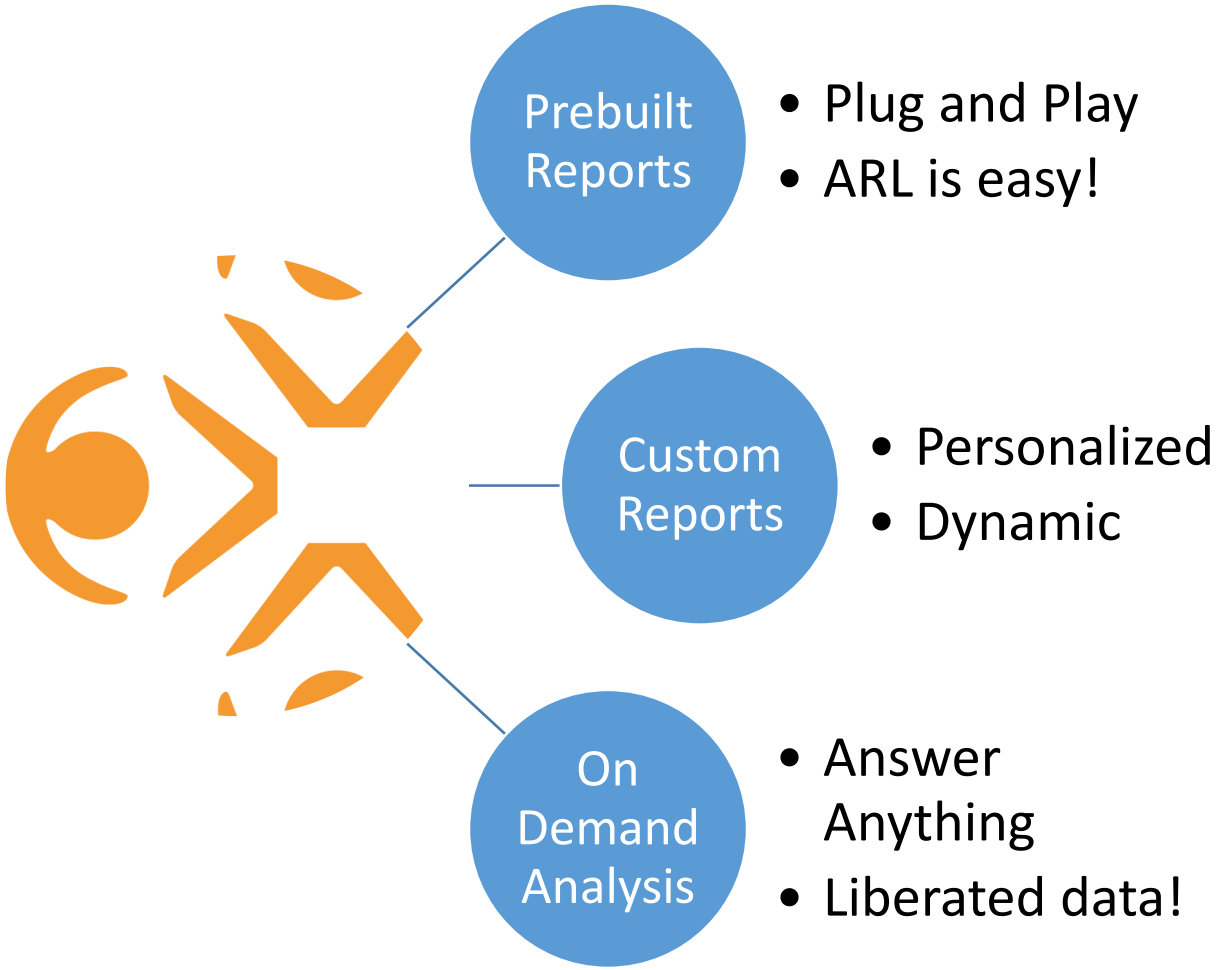
OCLC Statistics

ILLiad Reports



TPAM

Data Platform


Prebuilt Reports
• Plug and Play
• ARL is easy!
Custom Reports
• Personalized
• Dynamic
On Demand Analysis
• Answer Anything
• Liberated data!

Standard Reports

- Available online, on demand
- Answer those pernicious “easy” questions
- Accessed through a web interface

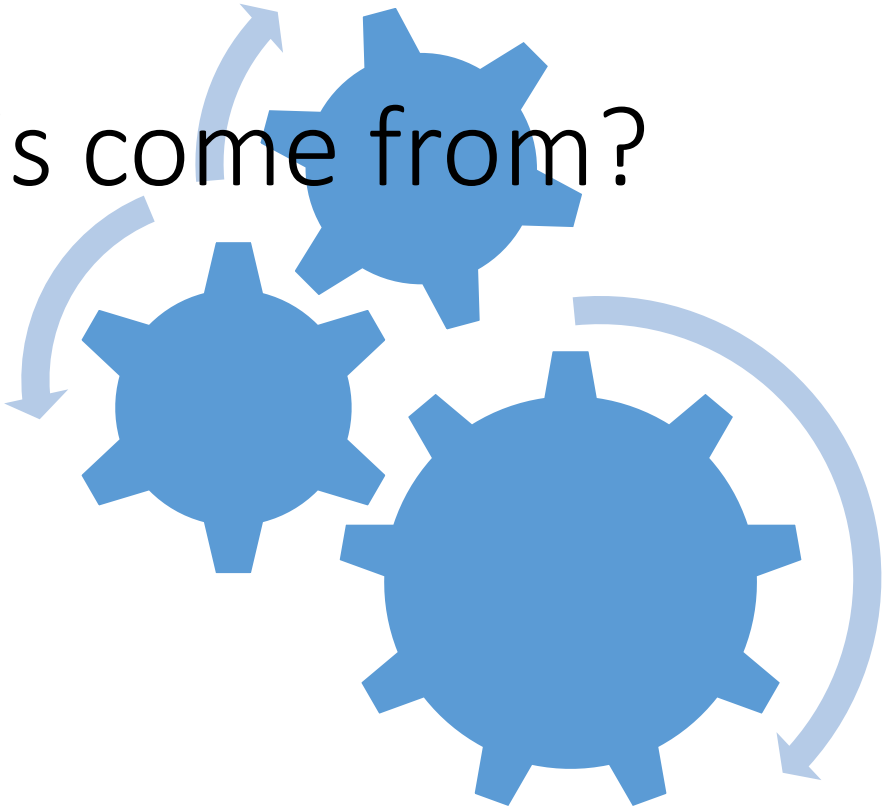
Custom Reports

- Opportunity for highly customized dashboards
- Create reports using free online tools
- Create on a PC, upload and consume on the web

On Demand Analysis

- Breeze through your data
- Find meaningful questions – and answer them
- Use free web tools and software you already own

Were does this come from?



IDS LOGIC

How is this different from ILLiad?

- Information available at the consortial level
- You will be able to decide what to share with others
- Data is restructured and “scrubbed” for more reliable reporting
- Higher levels of customization

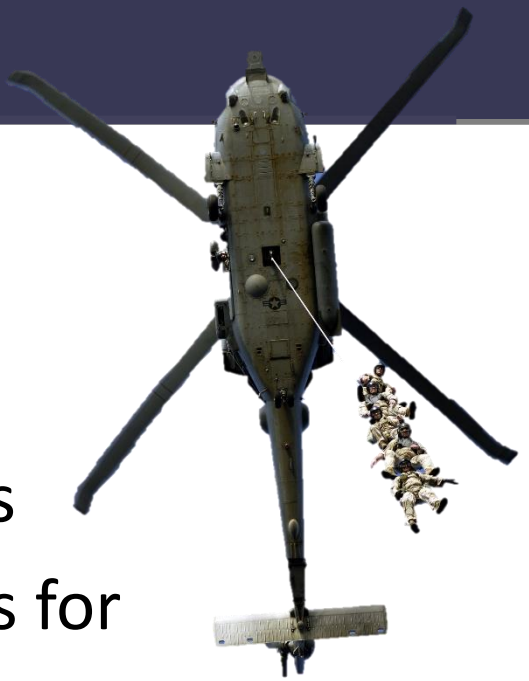
What will this do to my server?

- Nothing – data is yours, but lives with IDS
- By providing a consortia-wide reporting solution we can provide an enterprise grade product
  - Save individual libraries the cost of hosting analytics platforms
  - A single point of service for system-level problems
  - Reduces the analysis threshold – you don't need programmers, just curiosity

And what happens to my data…?

Extract, **T**ransform, **L**oad

Extract



- Logic pulls values from key ILLiad tables
- Information is loaded into staging areas for processing
  - The load on your servers ends after a simple query
    - No ILLiad slowdown
    - No additional server hosting
- All patron identity information is irreversibly hashed before it enters Data Services

Transform

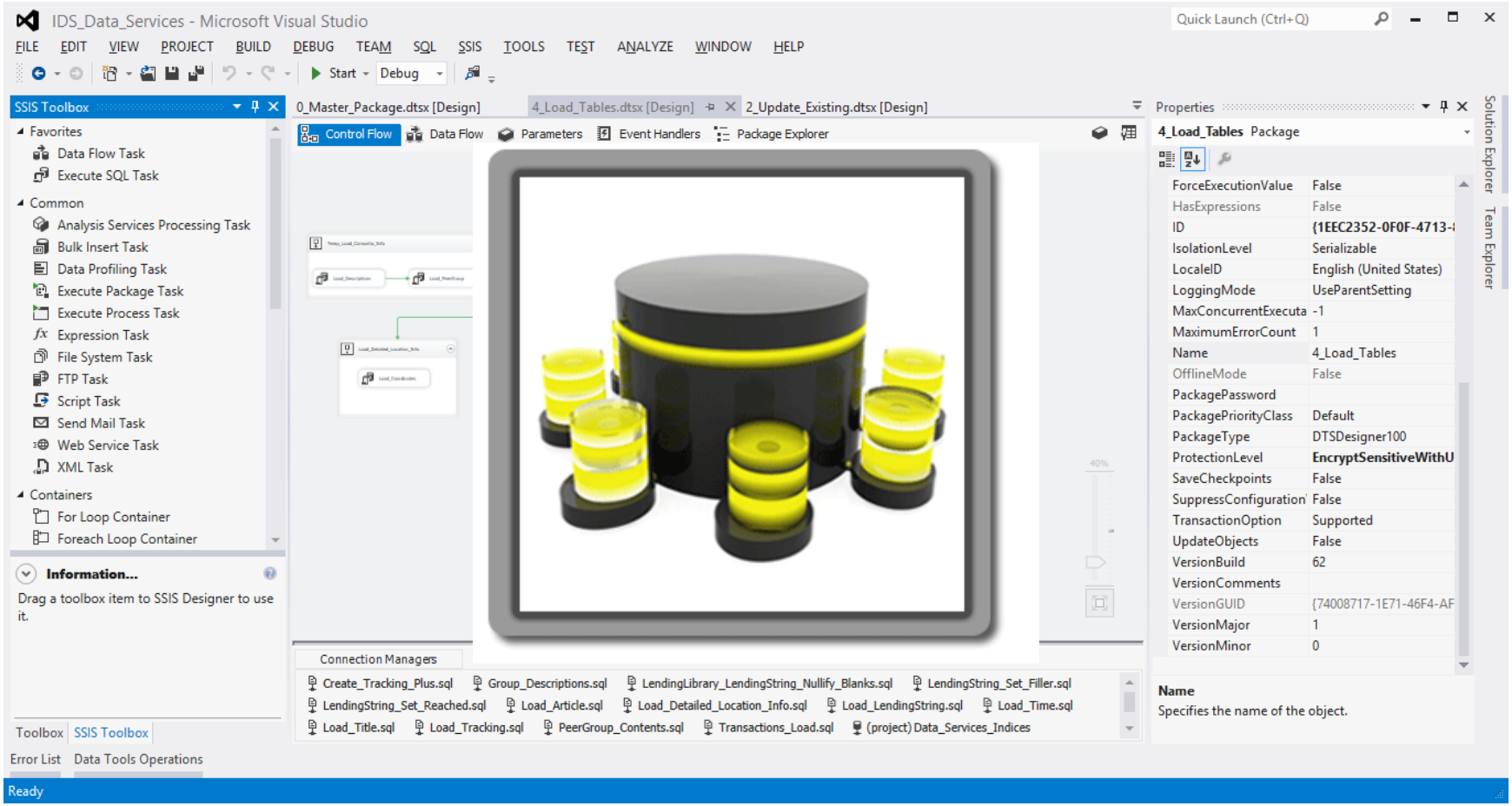
- Data in the staging area is treated by various scripts, lookup functions, and normalization methods
  - Make sure years are actually years
  - Check for valid system numbers
  - Strip problematic characters from numeric columns
- Check records against existing transactions to keep information up to date
- Alter the data to match a very different schema

Load

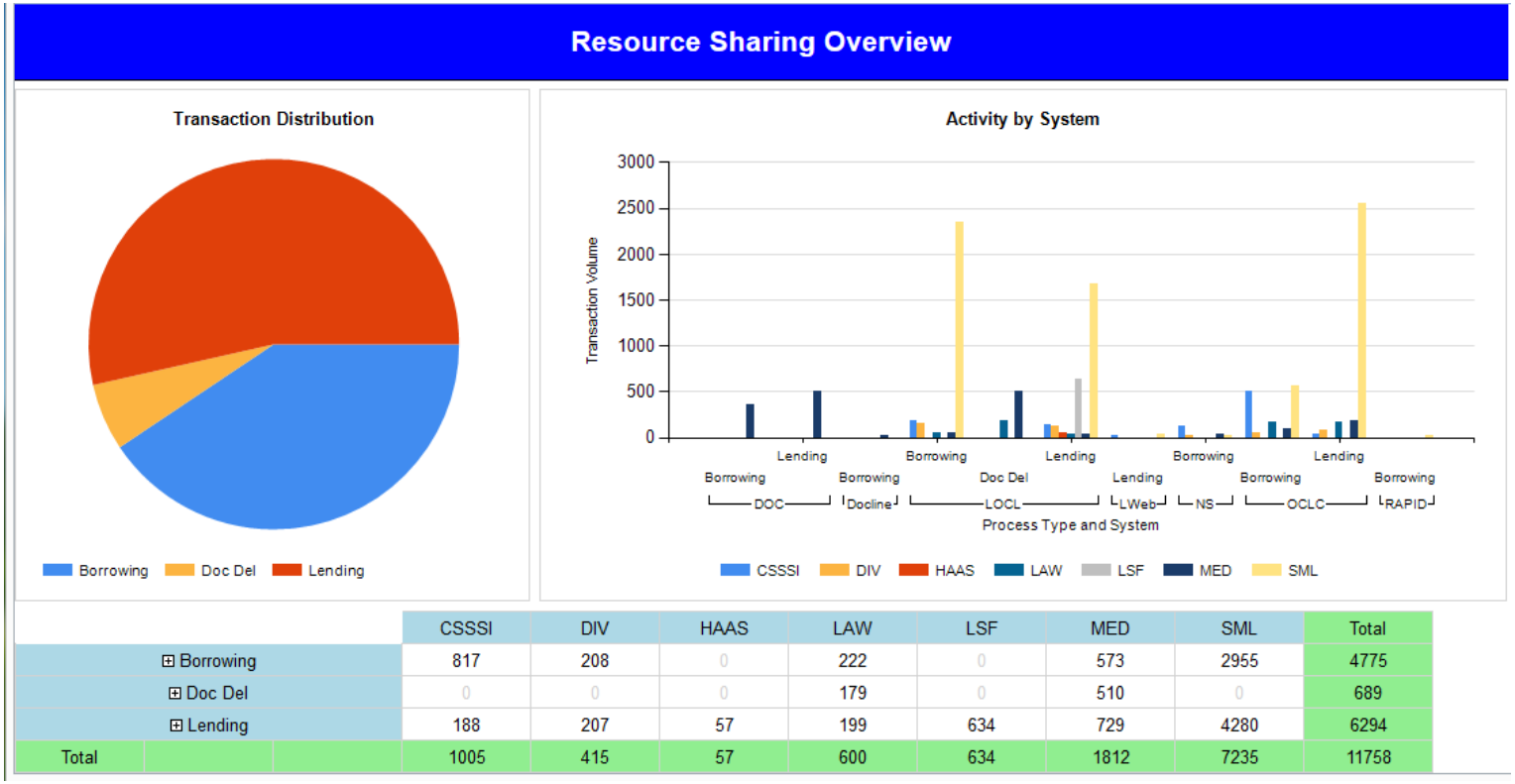
- After reformatting, data is moved into a new layout
- Queries are *simplified*
- Access is *faster*
- Management is *easier*

IDS PROJECT

Basically, We'll handle it

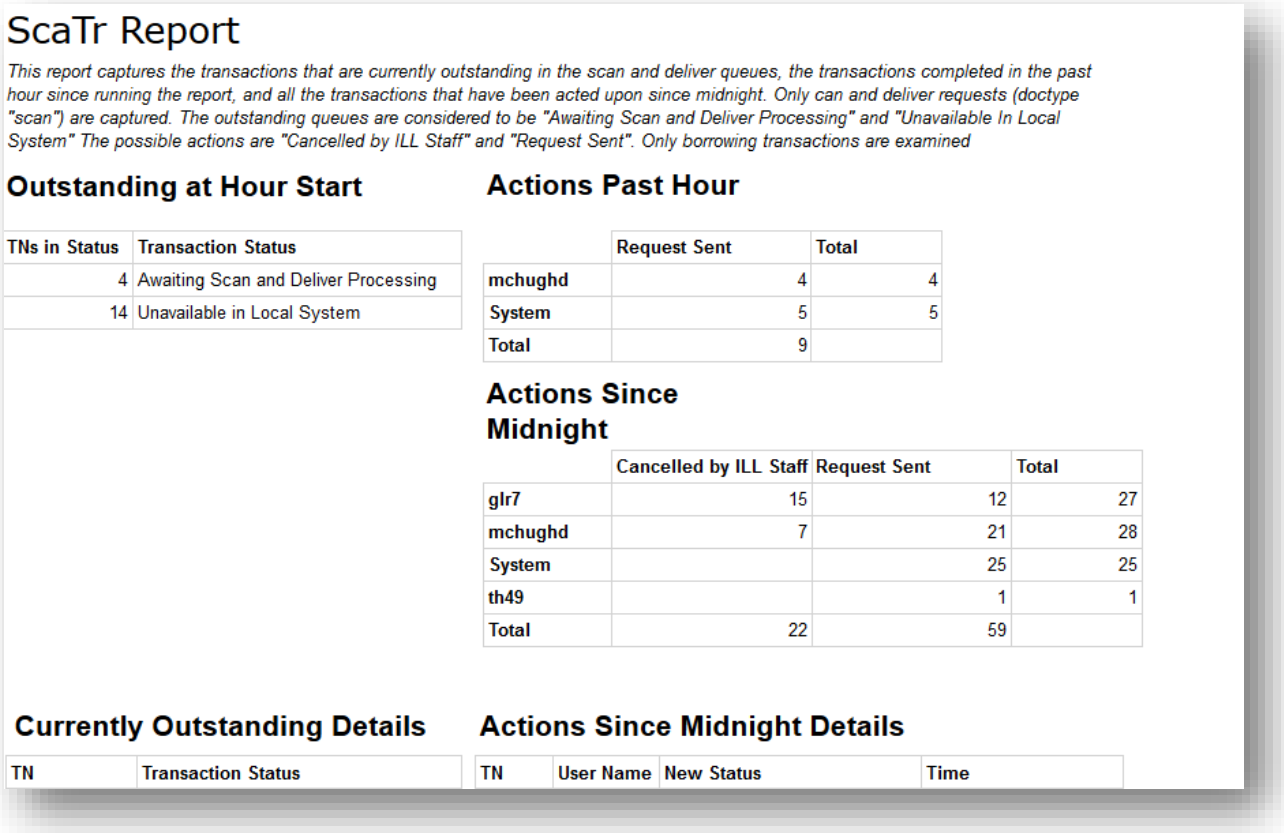


Example 1: Stock Reports



	CSSSI	DIV	HAAS	LAW	LSF	MED	SML	Total
⊞ Borrowing	817	208	0	222	0	573	2955	4775
⊞ Doc Del	0	0	0	179	0	510	0	689
⊞ Lending	188	207	57	199	634	729	4280	6294
Total	1005	415	57	600	634	1812	7235	11758

Example 2: Custom Reports



ScaTr Report

This report captures the transactions that are currently outstanding in the scan and deliver queues, the transactions completed in the past hour since running the report, and all the transactions that have been acted upon since midnight. Only can and deliver requests (doctype "scan") are captured. The outstanding queues are considered to be "Awaiting Scan and Deliver Processing" and "Unavailable In Local System" The possible actions are "Cancelled by ILL Staff" and "Request Sent". Only borrowing transactions are examined

Outstanding at Hour Start

TNs in Status	Transaction Status
4	Awaiting Scan and Deliver Processing
14	Unavailable in Local System

Actions Past Hour

	Request Sent	Total
mchughd	4	4
System	5	5
Total	9	

Actions Since Midnight

	Cancelled by ILL Staff	Request Sent	Total
glr7	15	12	27
mchughd	7	21	28
System		25	25
th49		1	1
Total	22	59	

Currently Outstanding Details

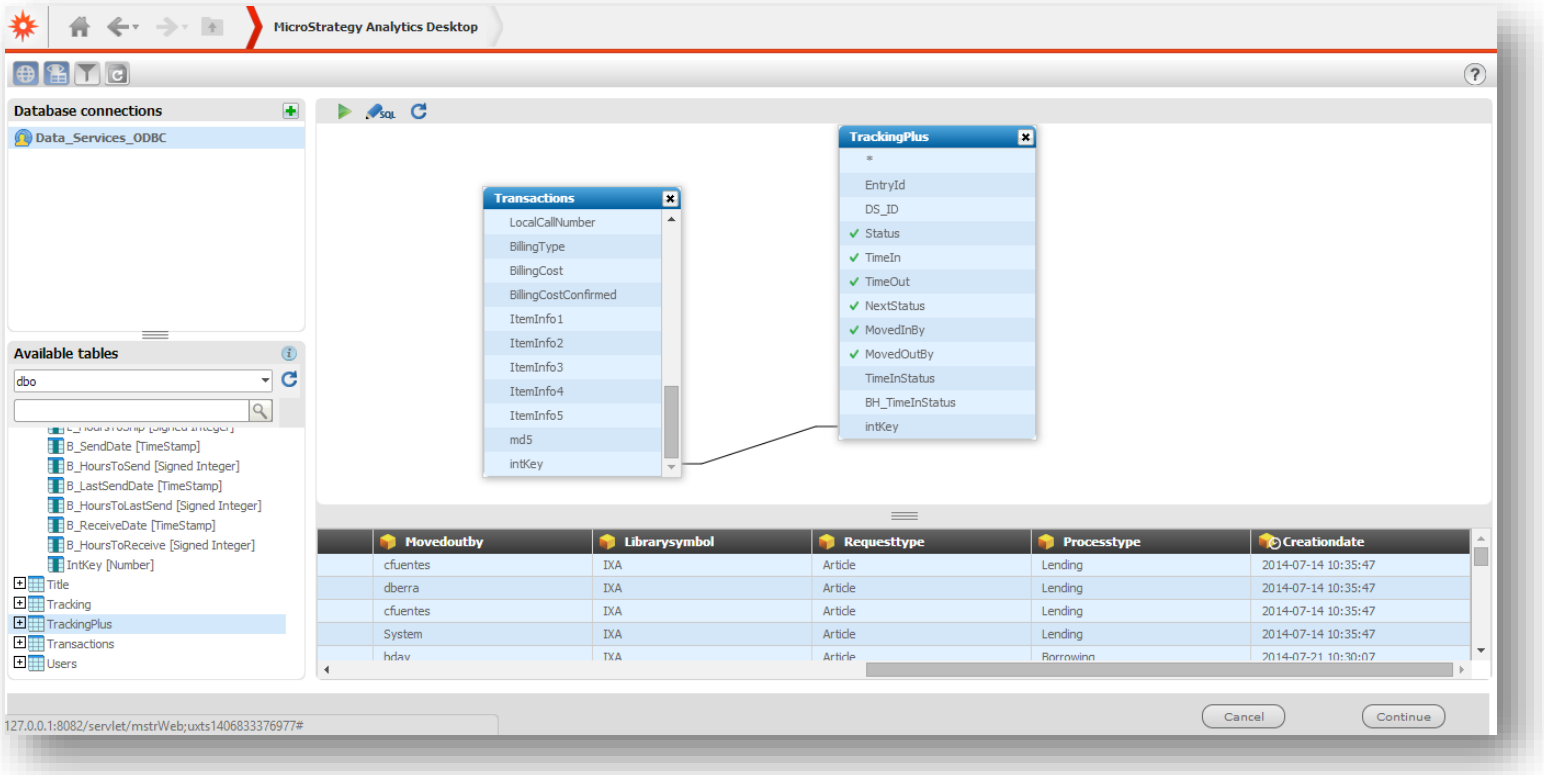
TN	Transaction Status

Actions Since Midnight Details

TN	User Name	New Status	Time

IDS PROJECT

Example 3: Custom Analytics



Some Examples

The workshop…

IDS PROJECT

Much is possible now

- Identify unused queues easily as well as workflow bottlenecks
- Generate billing rates per queue to estimate ILL cost per transaction
- Figure out where you are in other peoples' lending strings
- Figure out who, in your lending strings, is actually filling your requests and at what point

Much more is possible…

- The more data we have, the better the data becomes
- Truly collaborative and easy collection development
- Fully automated annual reports, custom printing, and automatic email report subscriptions
- Identify unused queues easily as well as workflow bottlenecks
- Integration with OCLC APIs to verify our information
- Researching possibility of working with CCC to evaluate buy vs. borrow en masse
- Smart distance measurement and known lenders

IDS
Data
Services

Stay Tuned…