Michelangelo
Effortlessly Query Everything

Tim Crandley
Program & Operations Manager
http://uwmichelangelo.com
History of Michelangelo

• Started in 2010
• UW Advancement Services
• Common IT Problem – Ad Hoc Reporting
  • Time intensive
  • People Intensive
  • Result – Slow execution
Ad hoc report process

How it was...
1. List request created
2. List Request Submitted to IT
3. List Request Reviewed by IT/Consultation with Requester
4. List Request Routed/Scheduled for Processing
5. List Request is Processed using Array of Database Tools
6. List is Audited for Accuracy by Internal IT
7. List Sent to Client for Audit
8. List Audited by Client
9. Put list to use

How we wanted it...
1. Log into tool
2. Create & export List
3. Put list to use
Michelangelo

- Multiple data sets
- Multiple Filter Types
  - Bar
  - Search
  - Composite
  - Map
  - Publication
- Checkout and Save/View
- Post Report Functions – Extend the report further
Demo
Extending the report

- **Combine**: Combine the results of 2 reports and remove duplicates (A & B, removing duplicates)
- **Subtract**: Remove the results from 1 report from another report (A – B, returning A without C)
- **Match**: Create a new report with only the values common in all selected reports (Evaluate A & B, and return only C)
Technology makes this work

- Patented data structure
  - Only the keys, please
- In-memory database
- Microsoft Azure
- Security
  - Silo’d & Encrypted Data
  - Access and Groups
In production

- At the UW
  - Advancement Services
  - Pilot – UW Research
  - Pilot – UW HR
  - Pilot – UW Nursing

- Beyond the UW
  - In use at 11 other schools and organizations
  - Many more about to come online
Find more info at
http://UWMichelangelo.com

Thank you!