

MIT Data

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What we'll cover

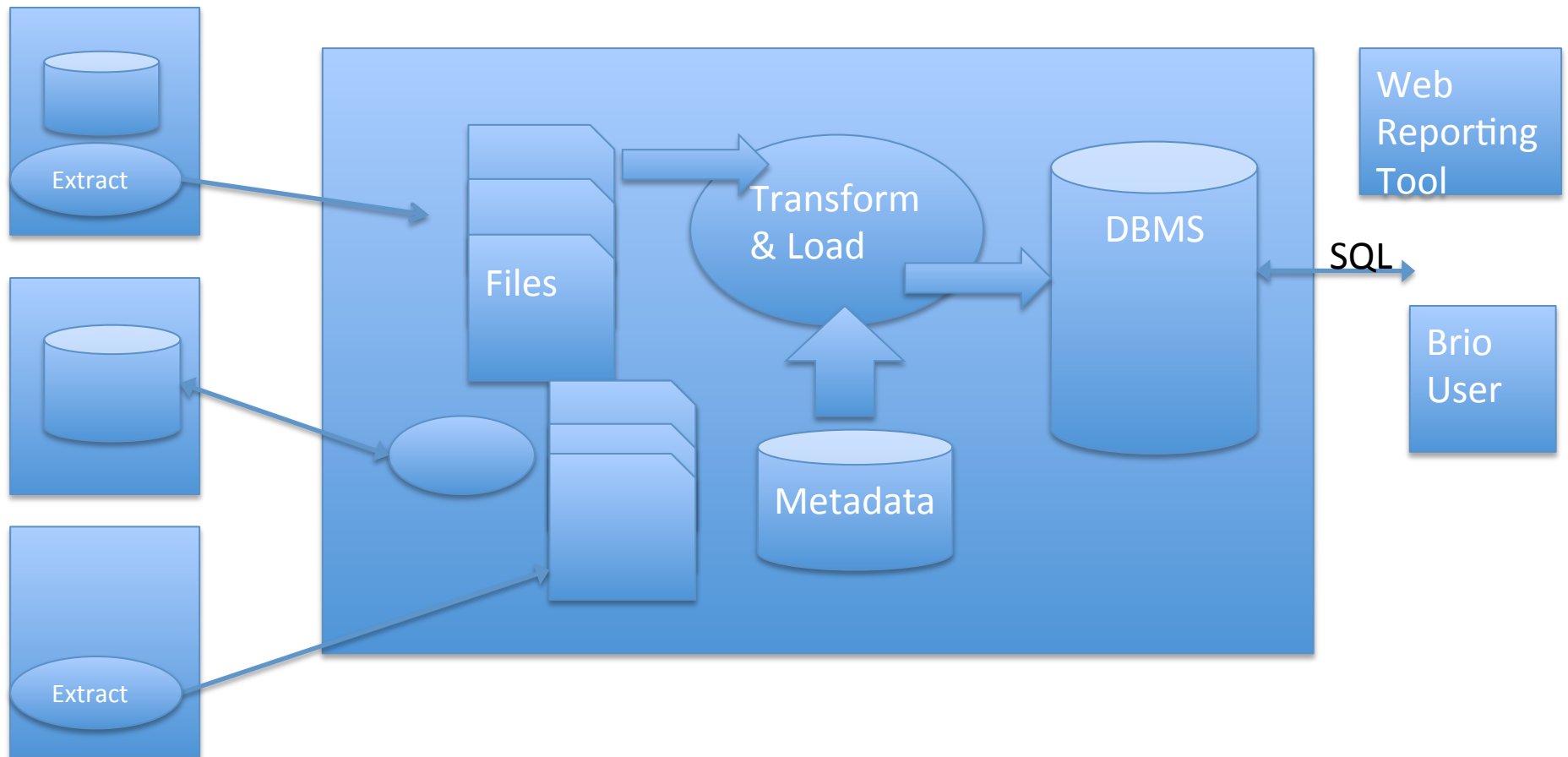
- Structured information only
 - No research data
 - not documents or web content
- What's the MIT Data Warehouse
- What information is available
- How you can access it
 - sql
- Structure of information
 - Quick tour
 - How to join

MIT Warehouse Goals

- Provide a common access mechanism for all Institute wide administrative data
- Provides a simpler view of Information
- Helps users make better decisions
- Improve data quality through usage
- Reduce load on Transactional System

Source Systems

Warehouse Environment



MIT Warehouse Design

- Accessed via SQL
 - Any tool
 - ODBC
 - Programming language
 - Encrypted transport
- Oracle DBMS
 - Access control at the database level
 - Views
- Optimized for reporting not transactions
 - Not “normalized”

Design continued

- Data has to be accurate
 - Stale data is better than inaccurate data
- Structures should make it easy to report
- Data is not corrected or modified in the Warehouse
- Data always comes from a System of Record (SOR)
- Access rules are shared by the Warehouse and transactional systems
 - Access managed by Business Owners

System Availability

- Approaches 24 x 7
 - Except Saturdays from 3:00 pm – 3:10 pm
 - Snapshot
 - Some tables are temporarily unavailable in the early morning as new day's data is loaded
- Most data is loaded every night

How to find out what's there

- Warehouse web site
 - See Data section
 - <http://web.mit.edu/warehouse>
- Metadata is in Database
 - Displayed on the web site
- What's “open”?
 - Where Sensitivity of
 - Public
 - MIT Only
- [http://scripts.mit.edu/~opendata/www/index.php?title=OpenData:Community Portal](http://scripts.mit.edu/~opendata/www/index.php?title=OpenData:Community_Portal)

Examples of Data

- Course Catalog
- Subjects offered per term
- IAP Sessions
- Textbooks
- Buildings & Rooms

Access Steps

- Request an Account
 - <http://ist.mit.edu/services/business/warehouse/access>
- Set password
- Install Oracle driver
 - <http://ist.mit.edu/services/business/warehouse/getting-started>
- Optionally Install Brio
- If you don't see a table that is listed as "Public" or "MIT Only" that you need
 - Send mail requesting access mentioning table by name
- If there any problems send mail
 - warehouse-help@mit.edu

Warehouse SQL Connection Parameters

- Oracle client install
 - Comes with MIT configuration -- tnsnames.ora
 - <https://ist.mit.edu/services/business/warehouse/ESSsetupMac-10>
- Host -- Warehouse.mit.edu
- Port – 1521
- SID -- DWRHS

Quick tour

Web Services

- Web Services
 - Read/Write services
 - <https://wikis.mit.edu/confluence/display/WSWG/Web+Service+Documentation>
- Authentication
 - <http://web.mit.edu/touchstone/www/>
- Authorization
 - <http://web.mit.edu/rolesdb/www/roleshome.html>
- List Management
 - Moira

Questions?

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warehouse-help@mit.edu

Metadata

Warehouse Meta Data

