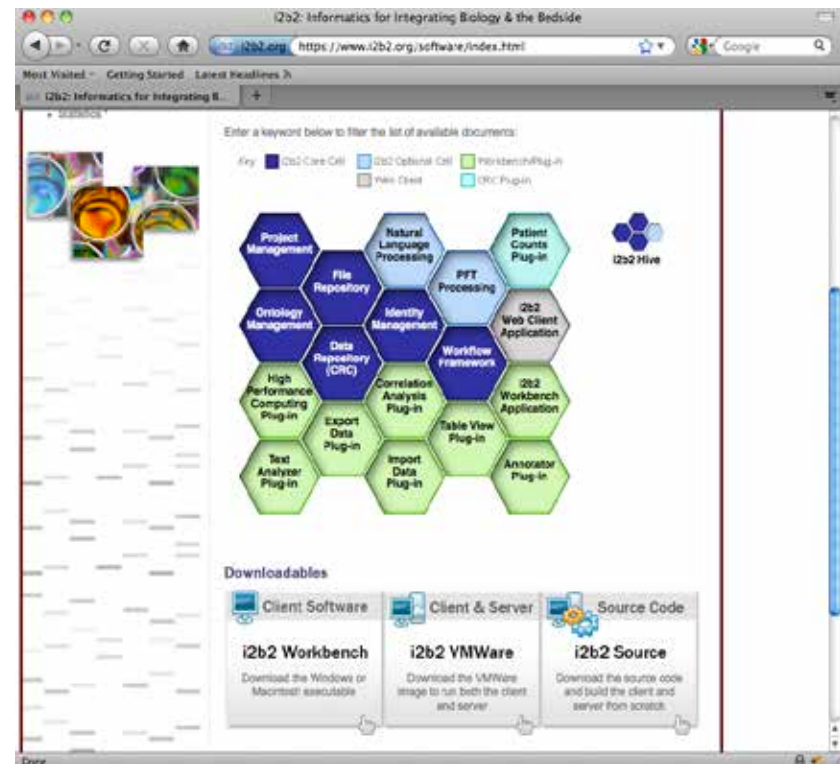


# I2b2 Software 1.6

Michael Mendis

# I2b2 Software 1.6 Released

- + Over a year in the making
- + 5 Release Candidates
- + Query Enhancements
- + Performance
- + Improved Support
- + Authentication



# 1.6 Key New Features

## + WHAT COMPONENTS WERE CHANGED IN 1.6

Server	Client
CRC	Workbench
Ontology	Webclient
Workplace	
Project Management	
File Repository	

Basically Everything....

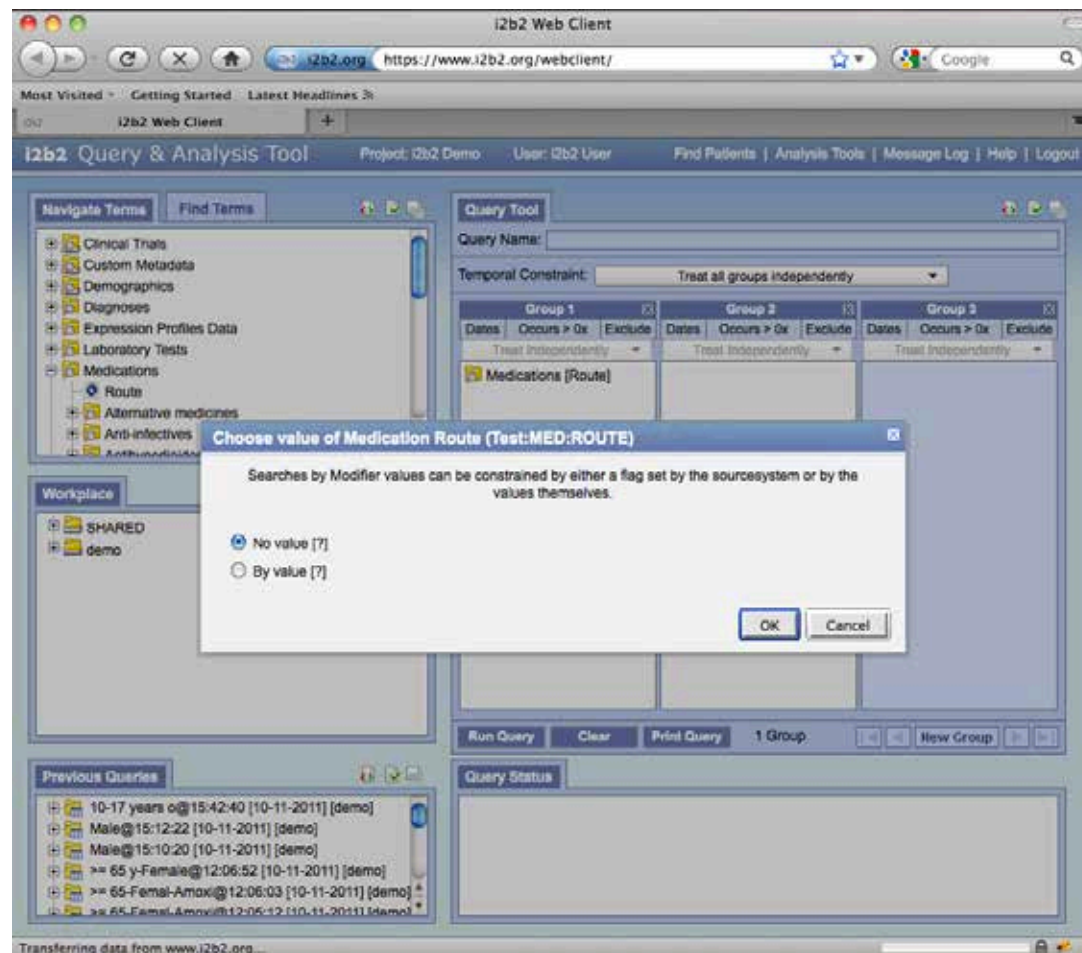
# Temporal (Query) and Panel Timing Constraints

In the 1.6 there is an option to query by visit.

The main difference between a temporal and a panel timing constraint is that

- + Temporal constraints are defined at the query level
- + panel timing constraints are defined at the panel level.

# Temporal (Query) and Panel Timing Constraints



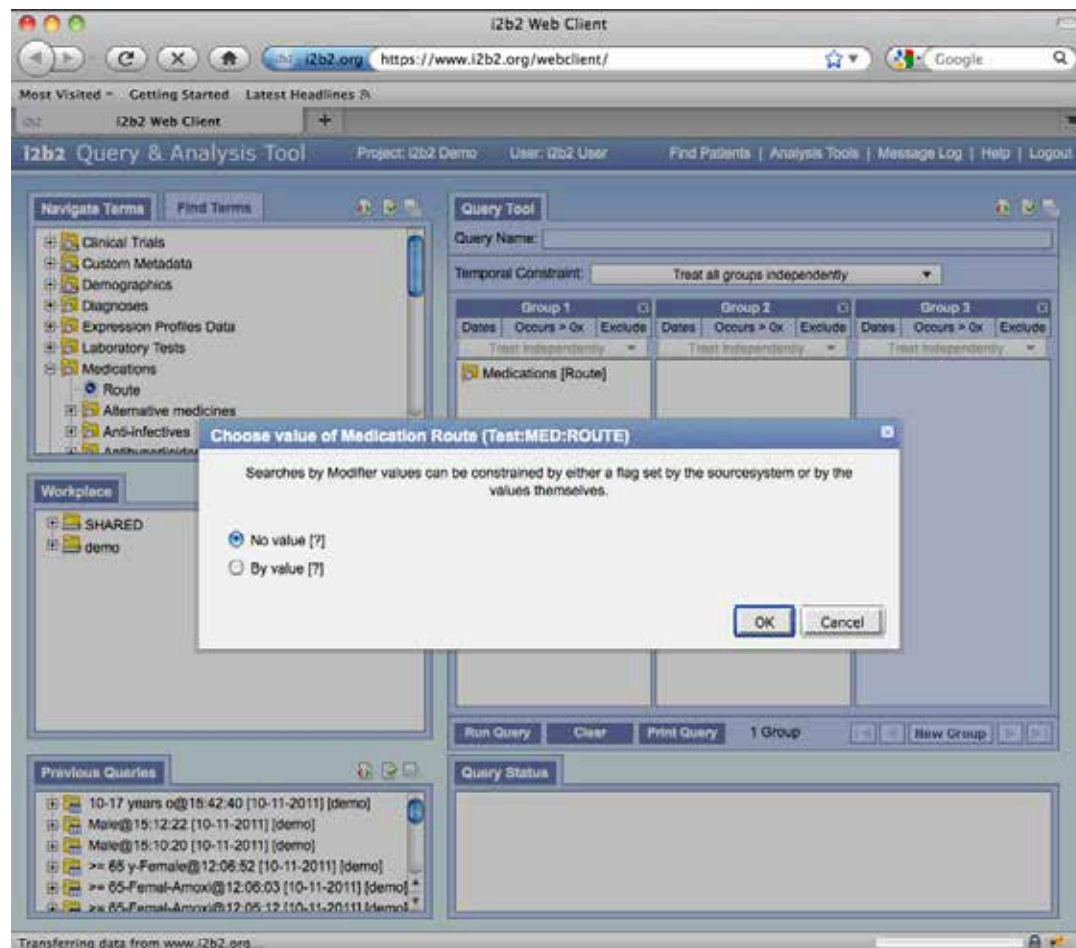
# Workbench Exporter

In workbench

The main difference between a temporal and a panel timing constraint is that

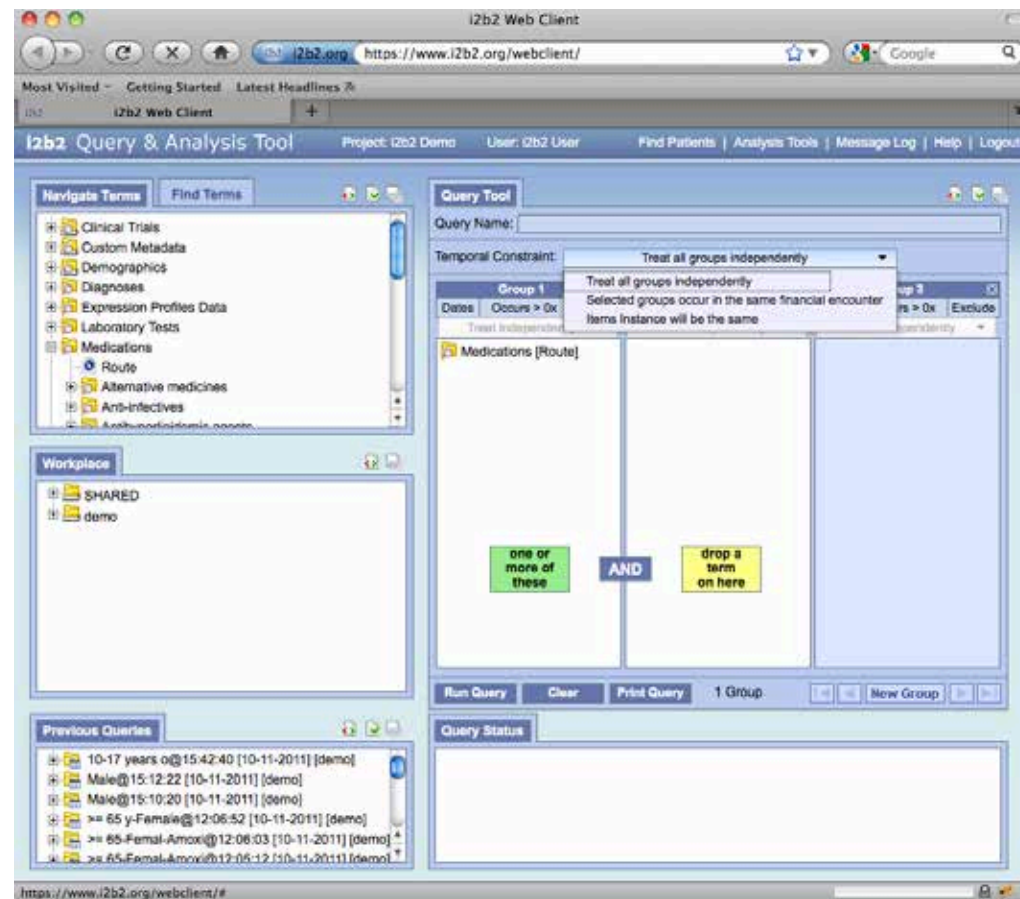
- + Temporal constraints are defined at the query level
- + panel timing constraints are defined at the panel level.

# Modifiers in UI





# Modifiers in UI





# Unit Conversion

In the 1.6 Release the ability to run queries using units other than the normal unit has been added.

The user can enable the unit conversion process by setting the following Project Parameter.

Parameter Name: CRC\_ENABLE\_UNITCD\_CONVERSION

Parameter Value: ON

# Demo Data

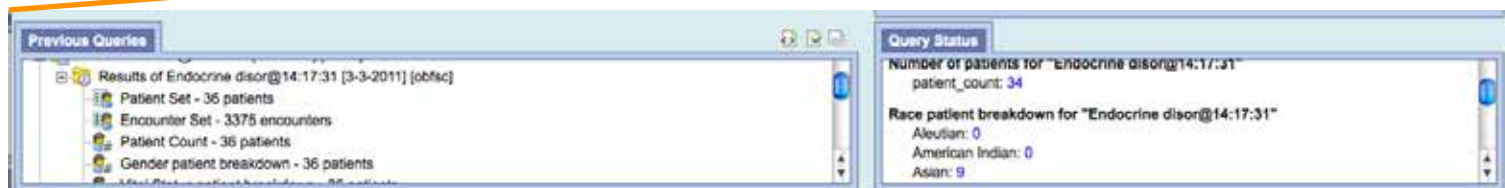
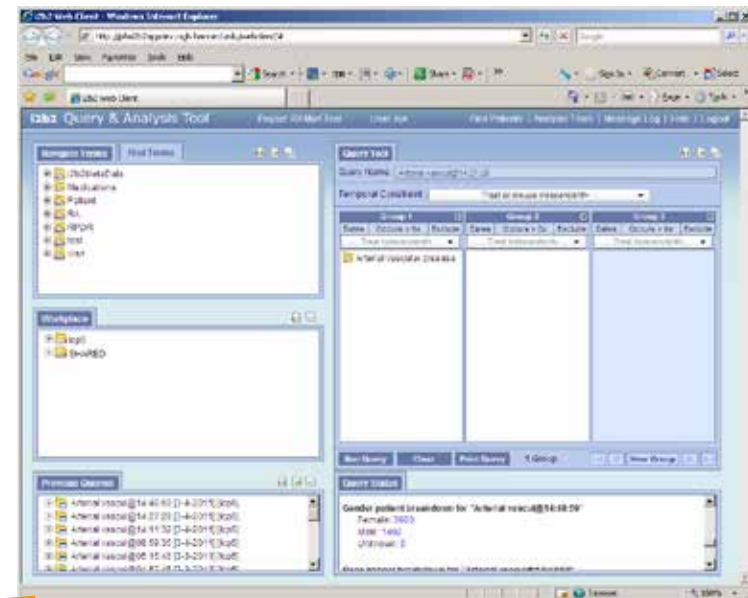
The demo data and metadata tables have been updated to support the new enhancements.

- + Populating the encounter\_mapping table
- + Synchronizing all tables that store the encounter\_num
- + Modifier codes and instance numbers were updated in the observation\_fact table
- + New modifier\_dimension table
- + New columns added to the metadata tables
- + New column added to both the patient\_dimension and visit\_dimension tables

# Analysis Breakdowns Added to Web Client

In the 1.6 Release the following Analysis breakdowns have been added to the web client.

- Gender patient breakdown
- Vital Status patient breakdown
- Race patient breakdown
- Age patient breakdown



# Query Enhancements

- + Performance Tracking

The ability to track and display performance metrics when running a query has been added to 1.6 Release.

**Parameter Name:** PM\_ENABLE\_PROCESS\_TIMING

**Parameter Value:** DEBUG

- + Optimized Query Runs

Patient Count query run under specific criteria will not create a temp table thus increasing performance.

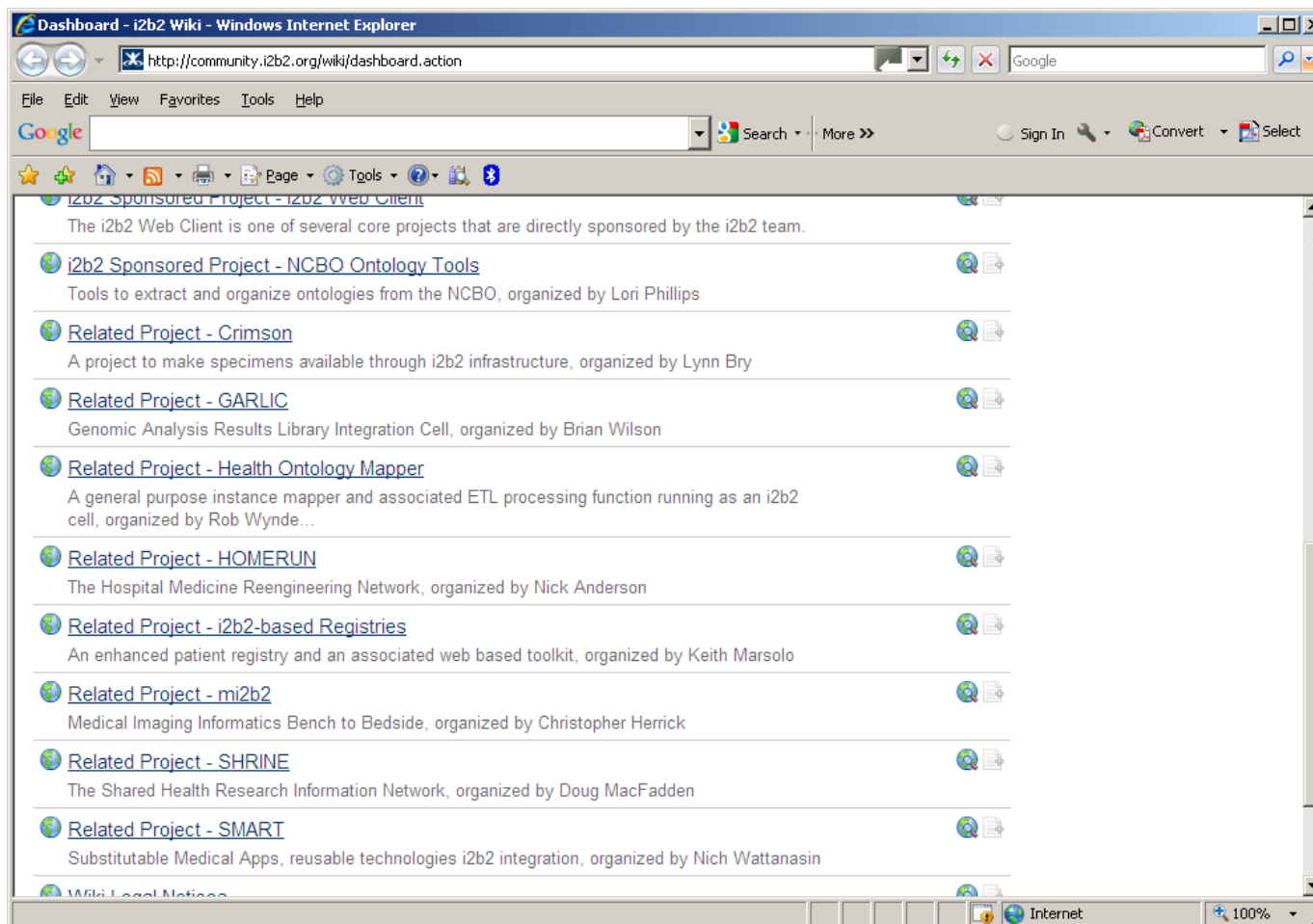
# Query Performance

- + Query Using Patient and/or Encounter Sets
- + Query-in-Query

# Project Management

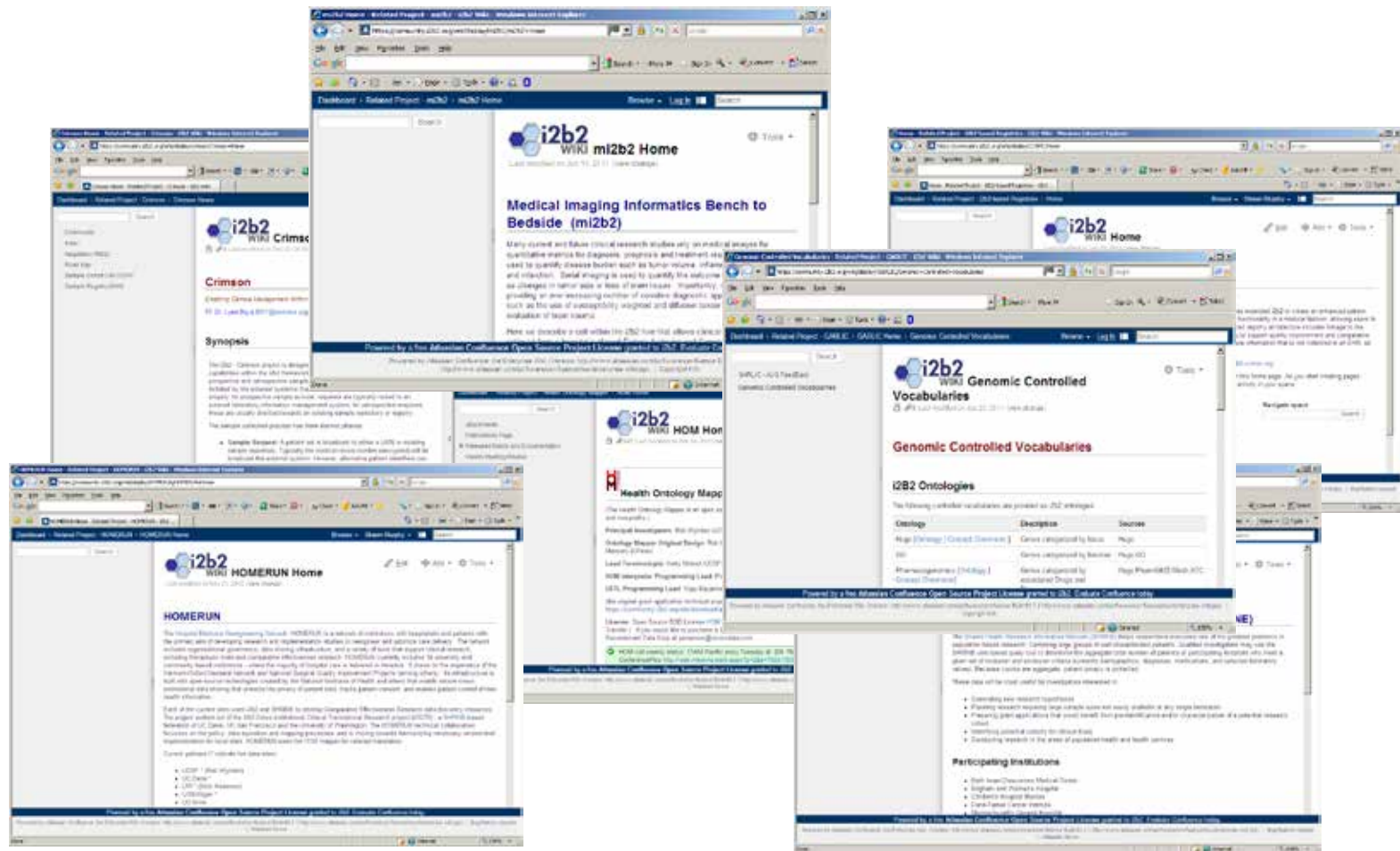
- + ADMIN is assigned to a user not as a role
- + Module Authentication methods.  
LDAP  
  
NTML

# Future through Related and Sponsored Projects





# Featured Projects



# Tools for Community

Shared Wiki Documentation

<http://community.i2b2.org/wiki>

JIRA Bug Tracking

<http://community.i2b2.org/jira>

Source Code Subversion Repository

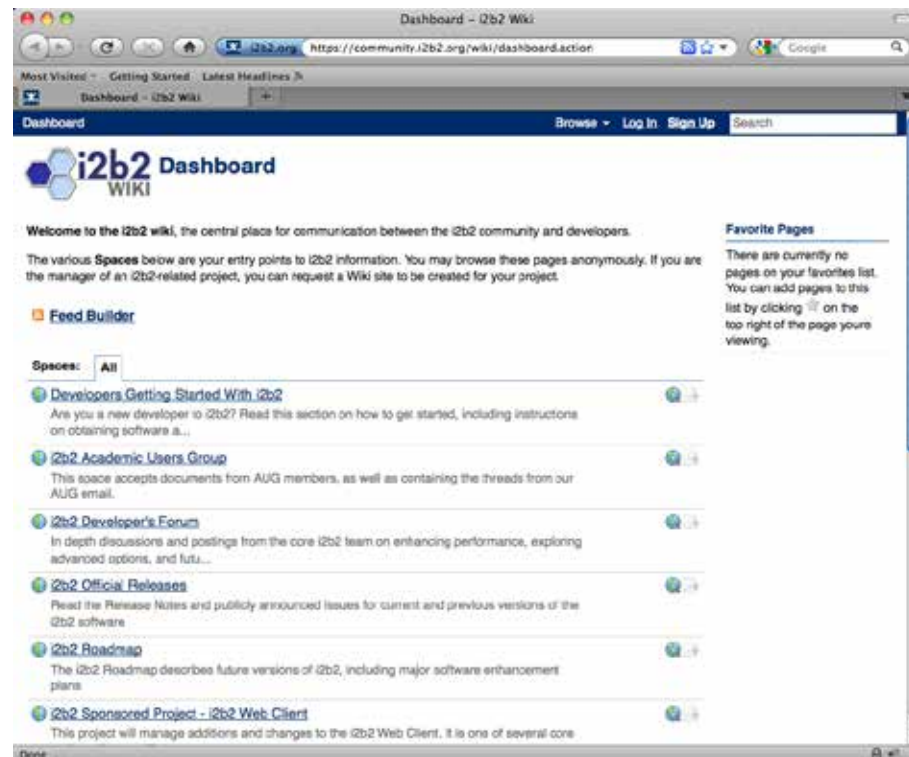
<http://svn.i2b2.org/svn/i2b2/trunk>

Web site for i2b2 distribution and documentation

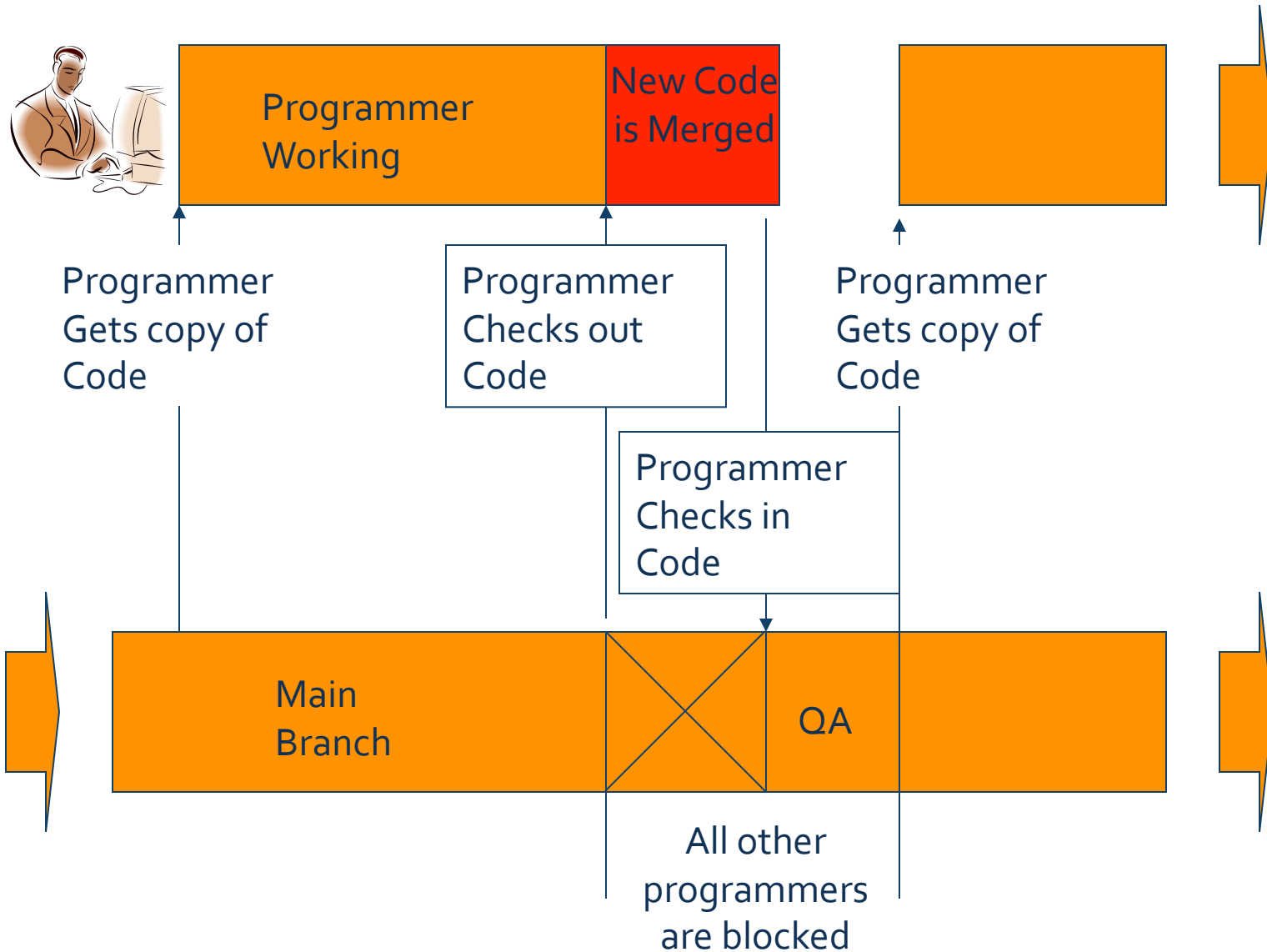
<https://www.i2b2.org/software>

# Wiki

- + Community News
- + Sponsored Projects
- + Related Projects
- + Upcoming Releases
- + Development Status



# Participating in i2b2 sponsored projects

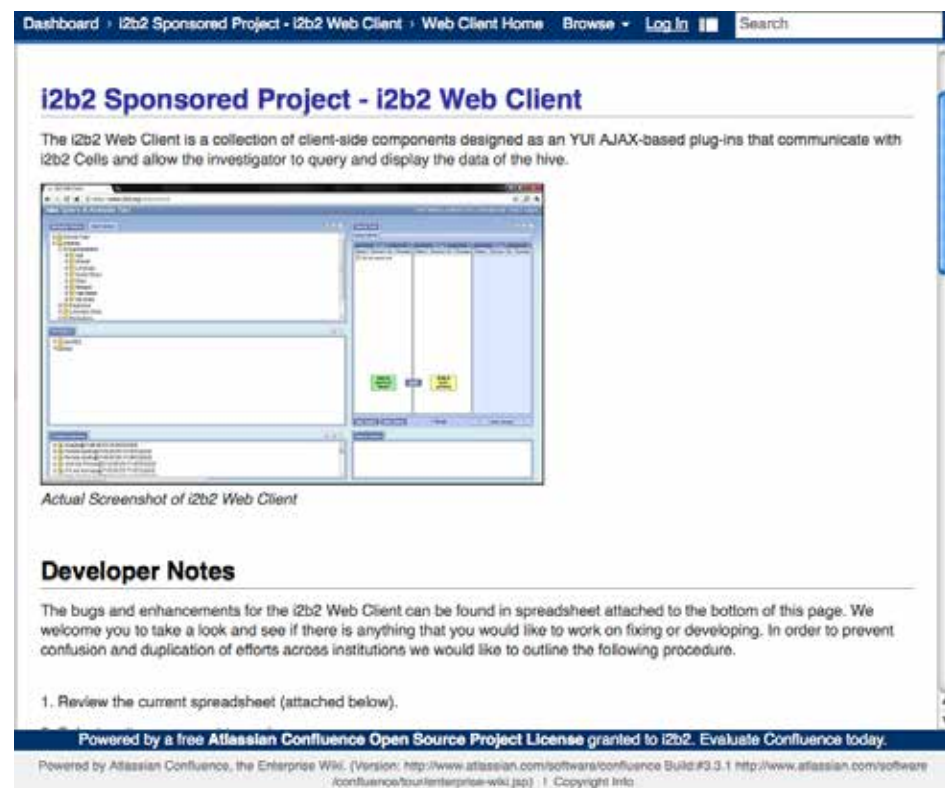


# Working on a sponsored project

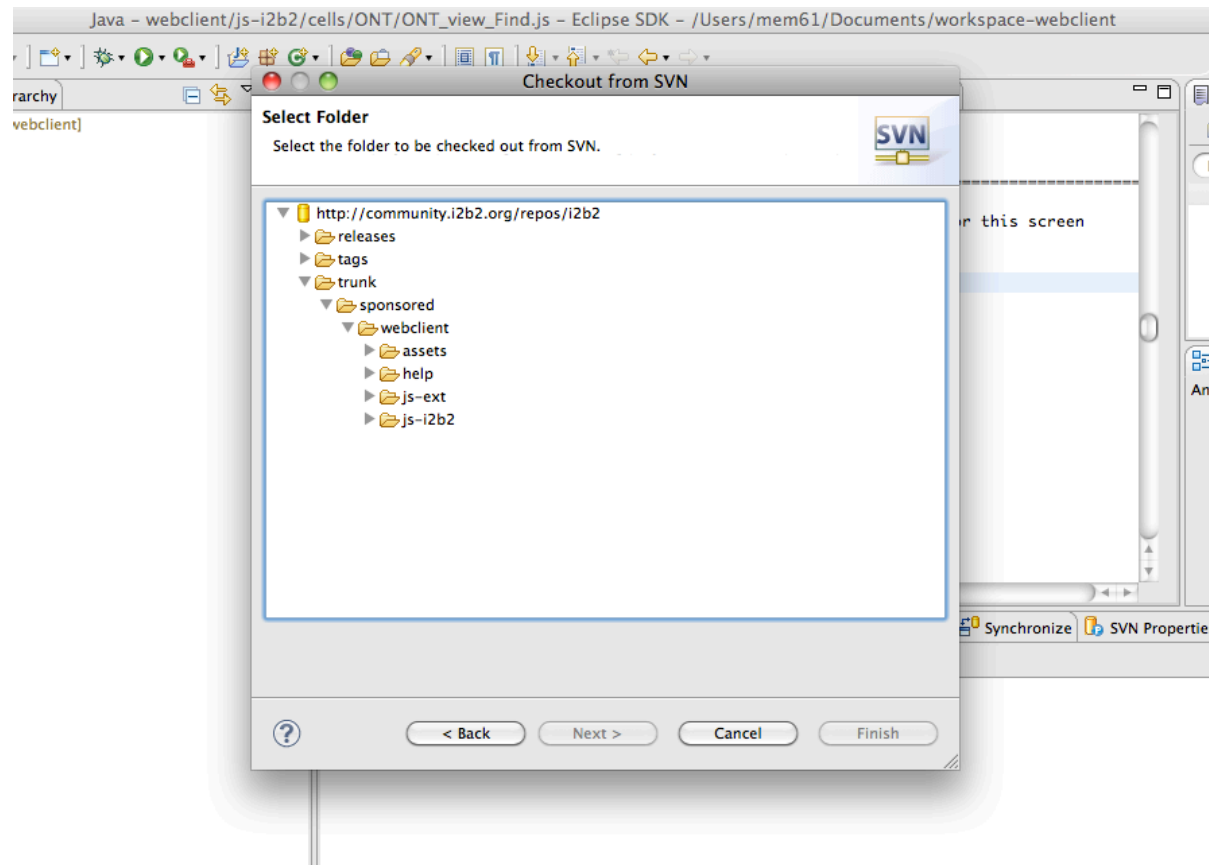
- + Review the current spreadsheet
- + Select an item you want to work on.
- + Log into JIRA which is <http://community.i2b2.org/jira>
- + Enter an issue for the bug you are going to fix.
- + Assign the issue to yourself.
- + Keep JIRA updated throughout the development process.
- + Once you are finished the final step is to update the issue in JIRA.

# Webclient Sponsored Project

- + The i2b2 Web Client is a collection of client-side components designed as an YUI AJAX-based plug-ins that communicate with i2b2 Cells and allow the investigator to query and display the data of the hive.



# Access sponsored code via SVN





# Jira Bug Tracker

The screenshot displays the i2b2 Issue & Bug Tracker Jira interface. The top navigation bar includes the site name, user profile, search bar, and navigation tabs. The main content area is divided into several sections: an introduction, a list of projects, favorite filters, and a table of issues assigned to the user.

**i2b2 Issue & Bug Tracker**  
Informatics for Integrating Biology & the Bedside

Mike Mendis | Quick Search

Dashboards | Projects | Issues | Administration | + Create Issue

+ Add Gadget | Edit Layout | Tools

### Introduction

**Welcome to the i2b2 Issue & Bug Tracker!**

Issues and bugs found in the i2b2 software and related projects are posted and tracked on this web site. You can report a bug or feature request by using the **Create Issue** link found at the top-right of the header bar.

**Developers:**  
If you are the developer of an i2b2-related project and would like to have a new Project created here to track your issues, please contact [Mike Mendis](#)

### Projects

Project	Lead
CTRgrid (Clinical Translational Research GRID) (CTRGID)	Rob Wynden
i2b2 (LEOPARD)	Mike Mendis
i2b2 Crimson (CRIMSON)	Brian Wilson
Ontology Mapper (ONTMAP)	Rob Wynden

### Favorite Filters

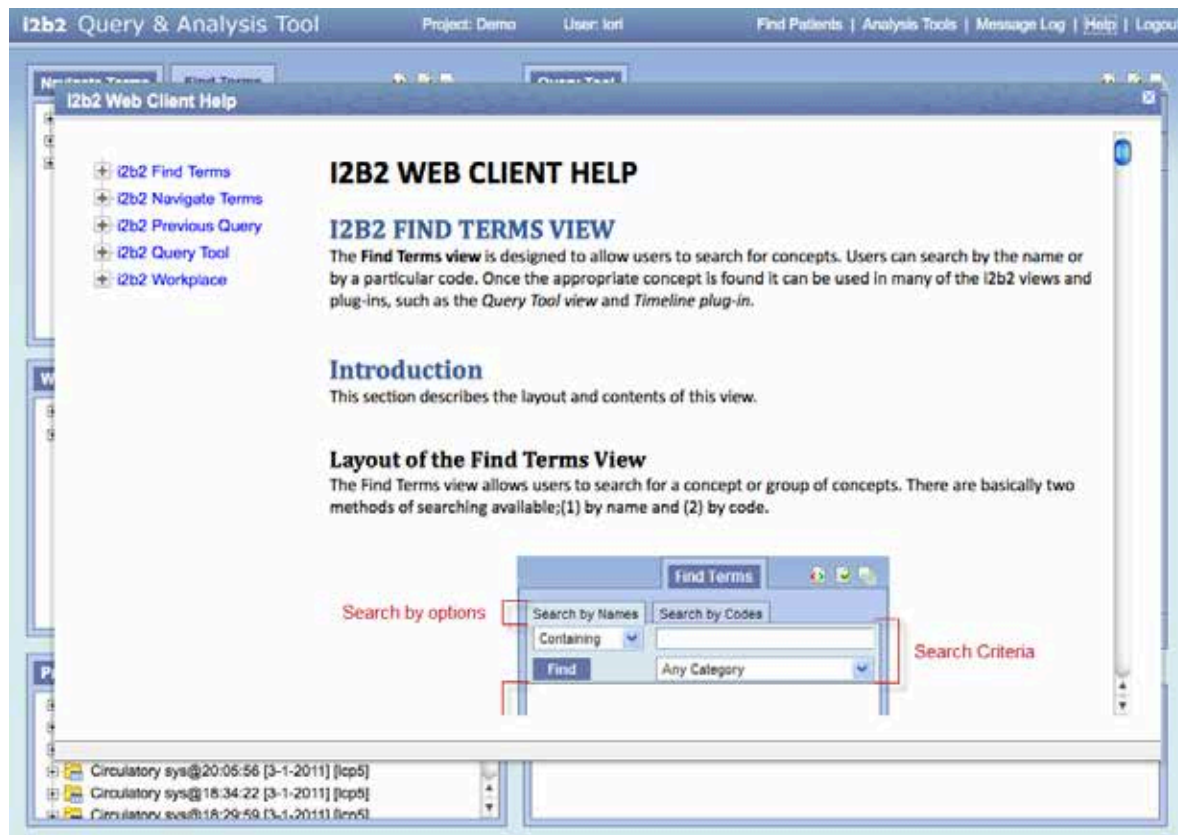
You have no favorite filters at the moment.

[Create Filter](#) | [Manage Filters](#)

### Assigned to Me

T	Key	Summary	Pr
	LEOPARD-85	New VM instal fails to connect under Solanis	
	LEOPARD-10	Suggestions for improvements to installation documents	
	LEOPARD-14	ontology terminal delimiter has unpredictable affects	
	LEOPARD-17	query by query definition: "total_item_occurrences" must always equal 1?	
	LEOPARD-19	query timing of SAME causes error in sql query generation.	
	LEOPARD-20	Implementation of Query Result Type PATIENT_ENCOUNTER_SET	
	LEOPARD-21	i2b2 thin client "Set value" search using == returns incorrect values	
	LEOPARD-22	weboient cannot handle & character in e_name column	
	LEOPARD-23	Cannot use the same concept in both group 1 and group 2 with a set value on both	
	LEOPARD-24	Set Value functionality does not reset itself until you force it by specifying "No Value" and pressing OK (even though "No Value" is already selected)	

# Online Help



# Other Changes

**i2b2 Query & Analysis Tool** Project: Demo User: lori Find Patients | Analysis Tools | Message Log | Help | Logout

**Navigate Terms** Find Terms

- Clinical Trials
- Custom Metadata
- Ontology
  - Demographics - 133
  - Diagnoses - 133
  - [Expression Profiles Data - 0]
  - Laboratory Tests - 133

**Workplace**

- lcp5
- SHARED

**Previous Queries**

- Circulatory sys@14:28:19 [3-4-2011] [lcp5]
- Circulatory sys@13:50:10 [3-4-2011] [lcp5]
- Circulatory sys@20:11:11 [3-1-2011] [lcp5]
- Circulatory sys@20:05:56 [3-1-2011] [lcp5]
- Circulatory sys@18:34:22 [3-1-2011] [lcp5]
- Circulatory sys@18:29:59 [3-1-2011] [lcp5]

**Query Tool**

Query Name: \_\_\_\_\_

Temporal Constraint: Treat all groups independently

Group 1			Group 2			Group 3		
Dates	Occurs > 0x	Exclude	Dates	Occurs > 0x	Exclude	Dates	Occurs > 0x	Exclude
Treat Independently			Treat Independently			Treat Independently		
drop a term on here								

**Run Query** Clear **Print Query** 0 Groups << < > >> New Group

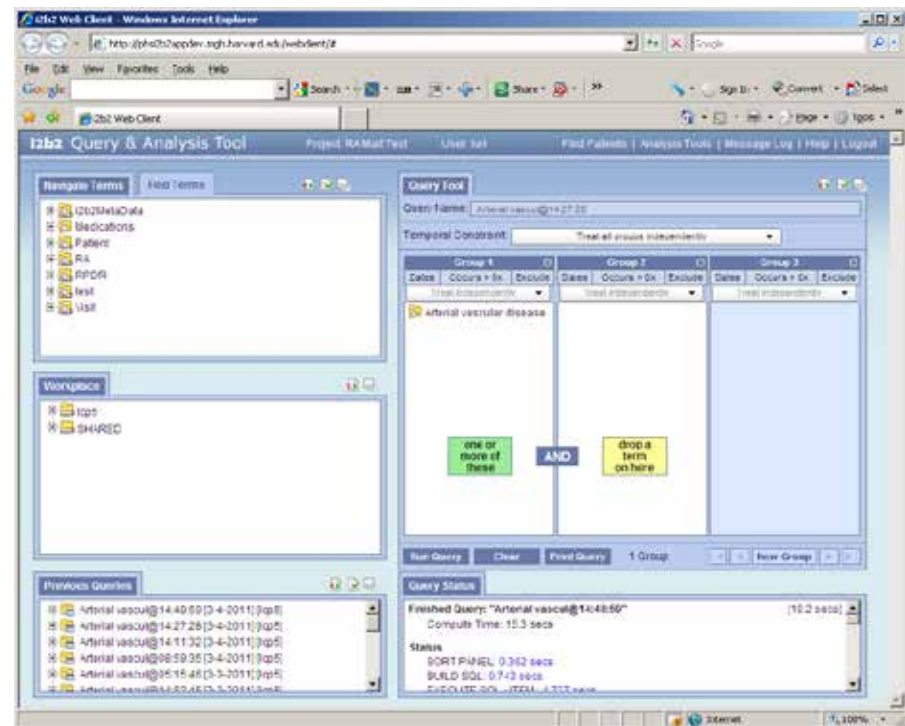
**Query Status**

\_\_\_\_\_

*Note: An orange arrow points from the 'Previous Queries' list to the 'Query Status' area.*

# Recent Additions to Webclient

- + Performance Report
- + Online Help
- + Patient Breakdown
- + Printing
- + Cancel Query
- + Query Status
- + Patient Count
- + And More...



[www.i2b2.org/software](http://www.i2b2.org/software)



Shawn Murphy MD, Ph.D.  
Michael Mendis  
Nich Wattanasin MS  
Lori Phillips MS  
Vivian Gainer MS  
Rajesh Kuttan  
Wensong Pan MS  
Janice Donahue  
Griffin Weber MD, Ph.D.  
Susanne Churchill Ph.D.  
Isaac Kohane MD, Ph.D.

