

# 1.7.03 Release Notes

## i2b2 Release 1.7.03

**Release Date:** August 20, 2014

### Installation Notes

- This release note applies to you if you are **upgrading to 1.7.03** from an earlier version of i2b2.
- If you are installing 1.7.03 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

### Upgrade Notes

i2b2 Release 1.7.03 contains changes to the following software components:

- i2b2 Server
- i2b2 Web Client

### Third Party Software Changes

No changes to third party software are included in release 1.7.03

### Change Summary - i2b2 Core Software - Version 1.7.03

#### Bug Fixes

- [\[CORE-143\]](#) - Do not require M\_APPLIED\_PATH when retrieving modifier information from the Ontology Cell

#### Improvements

- [\[CORE-135\]](#) - Edit tool to file C\_PATH and C\_SYMBOL when adding new item
- [\[CORE-141\]](#) - Remove carriage returns / line feeds from metadata.xml when filing a term in Edit Terms view

### Change Summary - i2b2 Web Client Software - Release 1.7.03

## Bug Fixes

- [\[WEBCLIENT-63\]](#) - Temporal Queries: Wrong description is displaying in the list of constraints for "On or After"
- [\[WEBCLIENT-66\]](#) - Wrong operator sent for some temporal relationships

## Improvement / New Feature Details

### Edit tool to file C\_PATH and C\_SYMBOL when adding new item

JIRA ISSUES: [\[CORE-135\]](#)

In the i2b2 metadata table there are two columns (C\_PATH and C\_SYMBOL) that are used exclusively by the Ontology Mapping tool. Prior to release 1.7.03 these columns were not populated when you added a new term via the Edit Terms view. This situation has been rectified in that these columns will now be populated with the appropriate data when creating a new container, folder, term, or modifier from within the Edit Terms view.

### Edit Tool view: Line feeds removed from Metadatatxml

JIRA ISSUES: [\[CORE-141\]](#)

In the Edit Terms view users can create terms that have values associated to them. These values are stored in the C\_METADATAXML column in the custom metadata table. Prior to release 1.7.03 when you created or edited a term with values in the Edit Tool view, the metadata was stored in the table with carriage returns / line feeds. This change improves the way the metadatatxml is filed into the table by removing all line feeds from the data before filing it into the C\_METADATAXML column

## i2b2 Release 1.7.02

**Release Date:** July 1, 2014

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.02** from an earlier version of i2b2.
- If you are installing 1.7.02 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.02 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client

- [i2b2 Workbench](#)

## Third Party Software Changes

No changes to third party software are included in release 1.7.02

## Change Summary - i2b2 Core Software - Version 1.7.02

### Improvements

- [\[CORE-95\]](#) - Password Management Enhancement
- [\[CORE-123\]](#) - Update demo patient MRNs and sites

### Bug Fixes

- [\[CORE-26\]](#) - "Your account does not have access to any i2b2 projects" in admin webclient
- [\[CORE-36\]](#) - Attempt to add a new CEL via the admin webclient fails
- [\[CORE-80\]](#) - Date restrict on non obs\_fact values not added to generated SQL
- [\[CORE-86\]](#) - Ontology contains bad XML
- [\[CORE-91\]](#) - PostgreSQL: Error executing CRC stored procedure CREATE\_TEMP\_PROVIDER\_TABLE
- [\[CORE-92\]](#) - Wrong user name entered in PM's datasource file for PostgreSQL and SQL Server examples
- [\[CORE-93\]](#) - compare integer with varchar
- [\[CORE-94\]](#) - Wrong built SQL statement causing SQLSyntaxErrorException at GetPDOFromInputList request
- [\[CORE-97\]](#) - User and cell configuration (data) in the Admin module does not display in some browsers
- [\[CORE-98\]](#) - Patient breakdown result types are not working when querying a PostgreSQL database
- [\[CORE-99\]](#) - Cell data changes made in i2b2 Admin are not saved
- [\[CORE-100\]](#) - Error executing CRC stored procedure CREATE\_TEMP\_PROVIDER\_TABLE (PostgreSQL)
- [\[CORE-101\]](#) - Error occurs when expanding an Encounter set in Previous Queries
- [\[CORE-102\]](#) - PM datasource file has the wrong username listed in the example
- [\[CORE-103\]](#) - Error returned from the CRC when running a query with result type of Encounter set
- [\[CORE-116\]](#) - On Amazon Demo site, the Visit Detail AGE does not work
- [\[CORE-120\]](#) - Change Password displaying in Managers Tool View
- [\[CORE-125\]](#) - Query using concepts from the clinical trials folder always returns zero patients

## Change Summary - i2b2 Web Client Software - Release 1.7.02

### Improvements

- [\[WEBCLIENT-56\]](#) - Password Management Enhancement

## Bug Fixes

- [\[WEBCLIENT-27\]](#) - Wrong icon appears when dragging folder to Workplace View
- [\[WEBCLIENT-43\]](#) - ontology cell concept navigation "Show Synonymous Terms" checkbox inconsistency
- [\[WEBCLIENT-46\]](#) - Renaming shared folders doesn't work in the webclient
- [\[WEBCLIENT-47\]](#) - "Delete Concept" in I2B2 web app deletes the first occurrence of the concept, not the one selected
- [\[WEBCLIENT-51\]](#) - Only 1 temporal relationship sent in xml even though multiple are defined
- [\[WEBCLIENT-52\]](#) - Modifier folders/containers don't work with i2b2 v1.7 and PostgreSQL
- [\[WEBCLIENT-54\]](#) - When an item in the Term Navigator has more than a certain number of elements underneath, the arithmetic in the 'Need more items' dialog box is incorrect
- [\[WEBCLIENT-55\]](#) - With error in data source the client runs on forever
- [\[WEBCLIENT-58\]](#) - Operators do not default correctly when adding a temporal relationship
- [\[WEBCLIENT-59\]](#) - Print Query not working in Chrome browser

## Tasks

- [\[WEBCLIENT-61\]](#) - Disable changing passwords on the demo site

## Improvement / New Feature Details

### Password Management

JIRA ISSUES: [\[CORE-95\]](#) and [\[WEBCLIENT-56\]](#)

In release 1.7.02, i2b2 users are now able to change their password from within the i2b2 Web Client and Workbench. Previously to this release, users did not have the ability to change their own password. They would have to notify their administrator who would have to change it for them in the i2b2 administration module. This new feature adds a layer of security in that the user can manage their own password and not have the added risk of other users (i.e. the admin) knowing their password.

#### Important

If a user is setup to log into the i2b2 using either Active Directory or LDAP authentication methods then they will **not** be able to change their password from within the i2b2 Web Client or Workbench. If they need to change their password they will need to contact their site administrator and follow the protocols established at their institution.

*This feature is only available for those users that log in with the standard i2b2 Authentication method.*

In the i2b2 Web Client, a new option called **Change Password** now appears in the Web Client's toolbar.

Clicking on **Change Password** will open the **i2b2 Change Password window**.

In the i2b2 Workbench, a new button labeled **Password** has been added to the i2b2 desktop title bar.

Clicking on **Password** will open the **Set Password window**.

The functionality to change your password is the same regardless of whether you access the change password window from within the i2b2 Web Client or the workbench. There are basically three steps:

1. Enter your **current password**.
2. Enter a **new password** for your user.
3. **Retype** your password.

Once you do the above three steps and click on **OK** the system will verify you entered your "current" password correctly and the password you entered at the *New Password* and *Retype Password* fields match. Provided everything is correct your new password will be saved.

**Note**

Once you change your password you will need to log out of the Web Client or Workbench and log back in using your new password.

# i2b2 Release 1.7.01

**Release Date:** February 4, 2014

## Installation Notes

- This release note applies to you if you are **upgrading to 1.7.01** from an earlier version of i2b2.
- If you are installing 1.7.01 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

## Upgrade Notes

i2b2 Release 1.7.01 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client

## Third Party Software Changes

No changes to third party software are included in release 1.7.01

## Change Summary - i2b2 Core Software - Version 1.7.01

### Improvements

- [\[CORE-88\]](#) - Confusing error message logged for non-Oracle users

### Bug Fixes

- [\[CORE-83\]](#) - Trying to build and compile i2b2 Server on Fedora Core 20 with Wildfly 8.0.0
- [\[CORE-85\]](#) - Fresh install fails on PM Module and admin screen
- [\[CORE-87\]](#) - Installation process needs to put database drivers in i2b2.war/WEB-INF/lib
- Data Install: The stored procedures for PostgreSQL for the CRC Loader was enhanced and optimized.
- Server Install: JDBC Drivers not copied correctly. When installing i2b2 server-common, the JDBC drivers were not copied into the i2b2.war /WEB-INF/lib directory.

- CRC-Loader: Importing Visit Dimension Data. When using the CRC Loader, some primary key data such as inout\_cd, location\_cd, length\_of\_visit, etc, was not being imported correctly.

## Documentation

- [\[CORE-58\]](#) - Workbench 1.6 and default install
- [\[CORE-77\]](#) - I2B2 installation Guide fixes
- [\[CORE-90\]](#) - Install Documentation: Wrong schema configurations documented for a PostgreSQL database

## Change Summary - i2b2 Web Client Software - Release 1.7.01

### Bug Fixes

- [\[WEBCLIENT-48\]](#) - Web client gets into non-functional state
- Clicking on the Clear button does not return the Query Tool to the default settings. When a temporal query is created, and a user clicks on the clear button to start a new query, the Temporal Constraint is changed to "Define sequence of events" and it should default to "Treat all groups independently."
- Date constraints not being stored with the previous query. When a date constraint was defined on a query the previous query would not maintain the constraint when you would use it to run another query.

## i2b2 Release 1.7

**Release Date:** December 20, 2013

### Installation Notes

- This release note applies to you if you are **upgrading to 1.7** from an earlier version of i2b2.
- If you are installing 1.7 from a computer running the i2b2 Workbench, ensure that the workbench and all eclipse applications are closed prior to installing this release.
- If you are installing a new instance of i2b2 we recommend you refer to the installation documentation found on the i2b2 community wiki. This documentation will guide you through the entire installation process.

### Upgrade Notes

i2b2 Release 1.7 contains changes to the following software components:

- Database Scripts
- i2b2 Server
- i2b2 Web Client
- i2b2 Workbench

## Third Party Software Changes

In release 1.7 the **i2b2 Server** has been updated to use the following versions of third party software.

1. JBoss has been upgraded to 7.1.1
2. Apache Ant has been upgraded to 1.8.2
3. Apache Axis2 has been upgraded to 1.6.2

**Warning**

Only the i2b2 Server was upgraded to use the above versions of JBoss, Ant, and Axis2. The i2b2 Workbench will continue to use the previous versions. As a result, the source codes for the server and the workbench client have different plug-ins for the commons.

Server edu.harvard.i2b2.server-common

Client edu.harvard.i2b2.common

## Change Summary - i2b2 Core Software - Release 1.7

### Improvements

- Find Terms: New feature called "Jump to Term in Tree"
- Previous Query: Filter list by user
- Previous Query: Search Previous Queries View
- Previous Query: Page through previous queries by date
- Database: PROJECT\_ID Column added to PATIENT\_MAPPING and ENCOUNTER\_MAPPING tables (support for new IM cell)
- Demo Data: Updated PATIENT\_MAPPING table to support the new IM cell.

### New Features

- Temporal Queries (New Temporal Query Tool View)
- Identity Management Cell (IM)
- Identity Management Tables
- Managers Tool View
- OpenEMPI Support
- Patient Mapping View
- Patient Sets View
- PostgreSQL Database Support

- Workplace Find View

## Bug Fixes

- [\[CORE-5\]](#) - CRC build from source deposits i2b2Common-core.jar in wrong directory
- [\[CORE-70\]](#) - I2b2 compilation of CRC Cell fails
- [\[CORE-74\]](#) - Typo in i2b2\_config\_data.js of admin interface
- [\[CORE-81\]](#) - No PATIENT\_NUM in OBSERVATION\_FACT\_PK (conflict with documentation)

## Documentation

- Architecture, design and messaging documents for the new Identity Management (IM) Cell.
- Design documentation for the new Temporal Query Tool plug-in.
- User guide for the new Temporal Query view.
- Documentation for the new views (Patient Set, Patient Mapping, Managers Tool, and Find in Workplace).
- [\[CORE-8\]](#) - Suggestions for improvements to installation documents
- [\[CORE-75\]](#) - CRC\_Design.pdf page numbers are broken, all page numbers are set to 1 of 1, 2 of 2, etc. instead of 1 of xx
- [\[CORE-78\]](#) - Errors in I2B2 Hive Installation Guide v 1.7.0

## Tasks

- [\[CORE-45\]](#) - Establish CRCLoader project (eclipse) from exiting ant build file failed

## Change Summary - i2b2 Web Client Software - Release 1.7

### New Features

- Temporal Queries (Modification made to existing Query Tool)

### Documentation

- [\[WEBCLIENT-40\]](#) - Webclient: documentation should state that php and curl are prerequisites for the webclient

## Improvement / New Feature Details

### Temporal Queries

The *temporal query* is a new type of query introduced in release 1.7. There are two components to these queries that make them a little more complex than the type of queries available prior to 1.7 (classic i2b2 queries).

The first component to these queries is the list of events defined by the user.

The second component is the relationship between the events. This relationship is referred to a Temporal Relationship, which is best described as how the different events relate in regards to the time in which the event(s) occurred.

Users can also define a patient or event population in which they wish to run the temporal query against. This step is optional and is not required in order to run the temporal query.

The process in which temporal queries are defined is slightly different in the i2b2 Web Client and the i2b2 Workbench. In the i2b2 Web Client the existing Query Tool view has been modified to accommodate Temporal Queries while a new view called Temporal Query Tool view has been created for the i2b2 Workbench.

The new Temporal Query Tool view and the modifications to the existing Query Tool view extend the query functionalities provided by the classic Query Tool view.

It is important to note that while the manner in which users setup a temporal query is different in each of the clients the overall functionality is the same.

The following two sections will describe how to run Temporal Queries in the i2b2 Web Client and the i2b2 Workbench.

## i2b2 Web Client: Temporal Queries

In the i2b2 Web Client there are five basic steps in defining a *temporal query* in the **Query Tool view**.

1. Change *Temporal Constraint* to **Define sequence of Events**.
2. Define *Population in which events occur* (optional step).
3. Define Events
4. *Define order of events* (temporal relationships)
5. Run the query

### Note

For detailed information about creating Temporal Queries please see the Temporal Query help file located on-line from within the i2b2 Web Client.

### Step 1: Change Temporal Constraint

The first step is to change the Temporal Constraint to *Define sequence of Events*.

## Step 2: Define Population in which events occur

Once you have changed the Temporal constraint to be *Define sequence of Events* a new **Page selection box** will appear below the Temporal Constraint section. The default page will be **Population in which events occur**. It is on this page you will define your population requirements.

## Step 3: Define Events

The events are the first component of a temporal query. There are no restrictions on the number of events you wish to define. The only requirement is that you have to define at least two events.

To define the events simply click on the *Page selection box* and select **Event 1** from the drop-down list.

The groups and constraints for the events work in the same manner as they did for a traditional i2b2 query. Simply drag the items you want to include in Event 1 to the appropriate groups.

Once you have added your items to the groups you can click on the *Page selection box* and select **Event 2** from the drop-down list. This will change the page to display the groups for Event 2.

If you need to add a third event you can click on the **New Event button** located next to the *Page selection box*.

## Step 4: Define Order of Events (Temporal Relationship)

As stated earlier the second component of a temporal query is the relationship between the events (temporal relationship). In the i2b2 Web Client this is done on the **Define order of events page**, which is accessed by clicking on the *Page selection box* and selecting **Define order of events** from the drop-down list.

The page will display as follows:

## Step 5: Run Query

In the Web Client running a query works the same regardless of whether or not it is a Temporal Query or a traditional i2b2 query. By clicking on the **Run Query button**, the i2b2 client will send the request to the i2b2 server which will run the query as defined.

## i2b2 Workbench: New Temporal Query Tool View

In the i2b2 Workbench there are three pages or steps in defining and running a *temporal query* in the new **Temporal Query Tool view**.

1. Page 1: Define Population
2. Page 2: Define Temporal Relationships
3. Page 3: Review and Submit Query

## i2b2 Workbench: New Temporal Query Tool View

### Define Date Constraints and Exclusions in Temporal Query Tool View

#### Defining the Date Constraints

#### Exclude Panel

Each page as well as defining constraints is further defined in the next few sections.

#### Note

For detailed information about using the Temporal Query Tool view, please see the help file for this view which is available on-line from within the i2b2 Workbench.

#### Page 1: Define Population

On this page you will define your population requirements.

#### Page 2: Define Temporal Relationships

As stated earlier there are two components to a *temporal query*; (1) List of events and (2) the relationship between the events.

The second page is where you will define both the events and their relationship.

On this page the name of the query will default and if you wish to rename it you can do so at this point. Whatever is entered here will be the name given to the query when it is run. In addition you can select the Analysis Types that you want when running the query.

## Defining Date Constraints and Exclusions in Temporal Query Tool View

There are some minor differences in terminology or layout that needs to be noted in this release note.

### Defining the Date Constraints

In the classic Query Tool view you can only define date constraints on the group / panel level. In the new Temporal Query Tool view you can now define a date constraint on either the query or group levels. If you define it on the query level it will default the same date constraint for all the groups and the date constraint on the panel level will not be available for selection.

If you want to define it on the panel level select **Group-Specific**. Go to the group you wish to define the constraint and click on the column that displays *No Date Constraints*.

### Exclude Panel

The ability to exclude all items in a group does exist in the new Temporal Query Tool view. However, the method in which it is defined differs between the classic Query Tool view and the Temporal Query Tool view.

In the existing **Query Tool view ("Classic")** the exclusion constraint was defined by clicking on the button labeled *Exclude*.

In the **Temporal Query Tool view (New)** the exclusion constraint was rolled into the window for defining the Occurrence constraint.

The *Specify Occurrence Constraints* windows will open when you click on the box that displays the occurrence constraint. To set the exclusion constraint you need to select "= 0 (No Occurrences)" from the drop-down list.

The above option is equivalent to the *Exclude* feature in the classic Query Tool view.

## Previous Query: Filter list by user

New in release 1.7 is the ability to filter the list of previous queries by the user who created the query. In the options dialog ( ) window there is a new field called **Get previous queries for user**. The default is *all users* and can be changed to a specific user by clicking on the down arrow to display the drop-down list. Once you select the user and click on **OK**, the Previous Queries view will refresh and display only those previous queries created by the selected user.

### Important

In i2b2 only managers are allowed to view queries for another user, therefore this feature is only available to those users who have the role of **MANAGER** defined for the project. If a user does not have the manager role then this field will be inactive and unavailable for selection.

## Previous Query: Search Previous Queries View

In release 1.7 the ability to search the Previous Queries view has been added. The functionality is very similar to *Find Terms* view except it will search the *Previous Queries* view instead of *Navigate Terms* view. Users can search any of the three levels;

1. Previous Query (name)
2. Previous Query Result
3. Patient

## Previous Query: Page through previous queries by date

Users can now retrieve the next or previous grouping of previous queries by the date in which the query was created.

The *Previous button* ( ) will retrieve the group of previous queries that occur **prior** to the date displayed in the date / time field.

The *Next button* ( ) will retrieve the group of previous queries that occur **after** the date displayed in the date / time field.

## Identity Management Cell (IM)

A new cell called the Identity Management (IM) Cell was developed in release 1.7. This new cell contains Protected Health Information (PHI), which can be used to identify patients. The IM cell is used to manage this PHI in a manner consistent with the HIPAA privacy rule. The patient data will be available only as a HIPAA defined "Limited Data Set" to most of the hive.

The full functionality of the IM cell will be developed in stages. The initial framework and key services are released as part of the 1.7 release. Some of the key features being released in 1.7 are:

1. New tables to store identifiers from different sites, and patients that are included in a project.
2. Audit controls are implemented that are in compliance with the HIPAA privacy rules.
3. Services developed to set and validated an AES key for encrypting and decrypting patient MRNs in the IM cell.
4. Unencrypted patient identifiers sent in the PDO can be processed through the IM cell to retrieve all site IDs for the patient and project.

In addition to the above features, the i2b2 Workbench (eclipse client) has two new views that were created to support the new IM cell. These new views, called **Patient Mapping** and **Admin Tool** are further defined in the following two sections called *Patient Mapping View* and *Admin Tool View*.

## Managers Tool View

The **Managers Tool** view was developed in release 1.7 and works in conjunction with the IM Cell. It currently has two main functions.

1. Set and / or validate that the project key is defined in the IM Cell.
  - The project key is used by the IM cell to decrypte the patient id"s that are encrypted.
  - The Set Key is used to define the key in the IM cell.
  - The Validate Key is used to verify the key is set.

Important

If you are using the IM cell and your patient identifiers are encrytped the you need to set the Project key in the IM cell. It is important to note that if you restart your i2b2 server or in the case of the VM image restarting the virtual machine then you will need to re-enter the project key.

The project key for the i2b2 demo project is: **i2b2demodatakey1**

In the VM image you need to log into the i2b2 Workbench as the i2b2 Admin user.

User ID: i2b2

Password: demouser

2. View the audit information.
  - As part of the IM cell an audit table was created to track when a patient in the IM cell was accessed. This new view allows Project Managers or Administrators to run a report to see that audit information. The report can be run for a particular user, patient, or all audit information for the project you are logged into.

## Patient Sets View

In release 1.7 a new view called **Patient Sets** was created. This new view will display a list of *Patient sets* that were created when a query was run. It is similar to the Previous Queries view except it only displays the patient sets and not the previous query or other result sets (i.e. Encounter sets, Number of patients, etc).

The patient sets can be expanded to display a list of patients.

Users can drag an entire patient set or a single patient to other views in the i2b2 Workbench.

Users can also perform a search in which they can search by the name of the patient set or for a list of patient sets that contain a specific patient.

## Workplace Find View

A new view called **Find in Workplace** was created in release 1.7. This view is very similar to the *Find Terms* view except it will search the *Workplace* view instead of the *Navigate Terms* view.

## Find Terms: New feature called "Jump to Term in Tree"

A new feature called **Jump to Term in Tree** has been added to the *Find Terms* view. Users can now easily jump directly to a term in the *Navigate Terms* view from the *Find Terms* view.

Once a term is found in the *Find Terms* view the user can click on the term using the *right mouse button* to display the pop-up menu. Selecting "Jump to Term in Tree" from the pop-up menu will bring the *Navigate Terms* view into focus and the hierarchical tree will automatically open to the location of the term selected in the *Find Terms* view.

## OpenEMPISupport

OpenEMPI is an open source Enterprise Master Patient Index (EMPI) which is developed and supported by another community. The i2b2 IM cell has been developed to allow communication with OpenEMPI for those sites that choose to use it as their patient repository.

For additional information on OpenEMPI please see their website by going to the following location: <https://openempi.kenai.com/>

## PostgreSQL Database Support

The ability to use a PostgreSQL database as an i2b2 database has been added to release 1.7. Both the create and insert data database scripts for PostgreSQL are included in this release.

## Data: New Tables created for the IM Cell

The following new tables were created as part of the new IM cell.

| Table Name              | Description                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IM_MPI_DEMOGRAP<br>HICS | Contains General demographic information for the patients.                                                                                                                   |
| IM_MPI_MAPPING          | Maps the patient's <i>i2b2 number</i> and the <i>local MRN</i> .                                                                                                             |
| IM_PROJECT_SITES        | Contains information about the different sites (Source Systems).                                                                                                             |
| IM_PROJECT_PATIE<br>NTS | Stores the patients that are part of a project(s).                                                                                                                           |
| IM_AUDIT                | Stores the audit details of patients accessed in the IM cell. This includes; the user, site, and project requesting the access as well as the date in which it was accessed. |

## Data: New Columns added to support IM cell

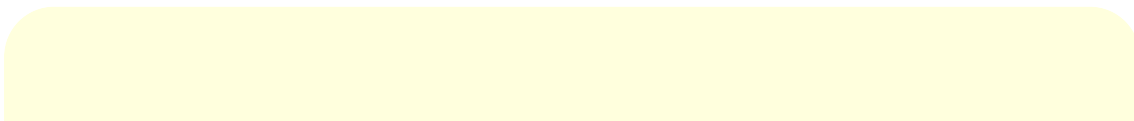
A new column called **Project\_ID** has been added to both the **PATIENT\_MAPPING** and **ENCOUNTER\_MAPPING** tables in the crc. The PROJECT\_ID was added to support the IM cell. It will allow sites to track which project a patient is part of.

## Data: Improved Patient Mapping Data

The **PATIENT\_MAPPING** table in the CRC has been updated to include the following:

- Mappings of existing patients to multiple site MRNs.
- Project IDs added to patients.

Demo data has been added to all of the new IM tables except the AUDIT table. This IM data was added to provide examples for using the new IM cell.



**Important**

The mapping information added to the CRC and IM tables is strictly for demonstration purposes and does NOT contain real patient information.

## New PostgreSQL Database Scripts

The i2b2 database scripts have been updated to include the table creation and data insert scripts for a PostgreSQL database.

## Licensing

The i2b2 source code is licensed under the i2b2 Software License 2.1. This includes but is not limited to all code in the edu.harvard.i2b2.\* package namespace.

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