



i2b2 Data Upgrade Guide (Linux/Oracle/Sqlserver)

Release 1.4

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About this Guide

Informatics for Integrating Biology and the Bedside (i2b2) is one of the sponsored initiatives of the NIH Roadmap National Centers for Biomedical Computing (<http://www.bisti.nih.gov/ncbc/>). One of the goals of i2b2 is to provide clinical investigators broadly with the software tools necessary to collect and manage project-related clinical research data in the genomics age as a cohesive entity—a software suite to construct and manage the modern clinical research chart. This guide with the provided database scripts will help you to learn how to upgrade the i2b2 data package to Release 1.4.

Document Version History

Date	Revision	Description	Author(s)
09/17/08	1.0	Release 1.2 to Release 1.3 upgrade	Lori Phillips
10/18/08	1.1	Updates	Lori Phillips
01/21/10	1.2	Release 1.3 to Release 1.4 upgrade	Lori Phillips

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Prerequisites

Assumptions

a. PM setup

The data in this package upgrades data for a domain of i2b2demo and two projects: Demo and Demo2. The assumption is that the PM service has been configured as such in a prior release.

b. Database Installation

Upgrade scripts are provided for Oracle Database 10g Express Edition (Universal) and Sql Server Express Edition 2005 databases. It is assumed that one of these is in use and has been installed in a prior release.

c. Prior Data Installation

The assumption is that prior data has been installed during the original Core hive release version 1.3. Previously installed data assigned to project 'Demo' (schemas i2b2metadata and i2b2demodata) and project 'Demo2' (schemas i2b2metadata2 and i2b2demodata2) will be upgraded accordingly. The schema i2b2hive will be upgraded as well. A new schema, i2b2pm, will be created.

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Upgrade

Upgrading the i2b2 Data Package

1. Unzip the data package into a folder: (/opt/data)

You should see the project edu.harvard.i2b2.data.
'cd edu.harvard.i2b2.data /Release_1-4/Upgrade'

This is considered your data upgrade working directory. Under this directory are folders for Demodata, Metadata, and Hivedata. These map to previously installed schemas i2b2demodata and i2b2metadata for project Demo and schemas i2b2demodata2 and i2b2metadata2 for project Demo2. Folder Hivedata maps to the i2b2hive schema.

2. User accounts

This document assumes that users i2b2hive, i2b2metadata, i2b2demodata, i2b2metadata2 and i2b2demodata2 have been created during a previous installation

3. Upgrade i2b2metadata tables

a) 'cd Metadata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)

b) Edit db.properties

Set database properties; be sure to set user/pswd to 'i2b2metadata' and project to 'demo'

If running Oracle:

```
db.type=oracle
db.username=i2b2metadata
db.password=i2b2metadata_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
db.project=demo
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2metadata
db.password=i2b2metadata_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
db.project=demo
```

- c) To upgrade metadata tables and insert new, additional data for project 'Demo':
Run 'ant -f data_build.xml upgrade_metadata_tables_release_1-4'

4. Upgrade i2b2metadata2 tables

- a) 'cd Metadata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)
- b) Edit db.properties
Set database properties; be sure to set user/pswd to i2b2metadata2 and project to 'demo2'

If running Oracle:

```
db.type=oracle
db.username=i2b2metadata2
db.password=i2b2metadata2_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
db.project=demo2
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2metadata2
db.password=i2b2metadata2_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
db.project=demo2
```

- c) To upgrade metadata tables and insert new, additional data for project 'Demo2':
Run 'ant -f data_build.xml upgrade_metadata_tables_release_1-4'

5. Upgrade i2b2demodata tables:

- a) 'cd Demodata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)
- b) Open db.properties
Set database properties; be sure to set user/pswd to 'i2b2demodata'

If running Oracle:

```
db.type=oracle
db.username=i2b2demodata
db.password=i2b2demodata_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2demodata
db.password=i2b2demodata_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
```

- c) To upgrade demo data tables, create new tables and insert new, additional data:
Run 'ant -f data_build.xml db_data_upgrade_1-4'

6. Upgrade i2b2demodata2 tables:

- a) 'cd Demodata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)
- b) Open db.properties
Set database properties; be sure to set user/pswd to i2b2demodata2

If running Oracle:

```
db.type=oracle
db.username=i2b2demodata2
db.password=i2b2demodata2_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2demodata2
db.password=i2b2demodata2_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
```

- c) To upgrade demo data tables, create new tables and insert new, additional data:
Run 'ant -f data_build.xml db_data_upgrade_1-4'

7. Upgrade i2b2hive tables:

- a) 'cd Hivedata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)
- b) Open db.properties
Set database properties; be sure to set user/pswd to i2b2hive

If running Oracle:

```
db.type=oracle
db.username=i2b2hive
db.password=i2b2hive_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2hive
db.password=i2b2hive_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
```

- c) To upgrade demo data tables, create new tables and insert new, additional data:
Run 'ant -f data_build.xml hive_data_upgrade_1-4'

8. Create i2b2pm tables:

The 1.4 PM now uses a relational database such as Oracle or SqlServer, so you will need to create all the associated tables.

- a) 'cd Pmdata' of your working directory.
(edu.harvard.i2b2.data /Release_1-4/Upgrade)
- b) Open db.properties
Set database properties; be sure to set user/pswd to i2b2pm

If running Oracle:

```
db.type=oracle
db.username=i2b2pm
db.password=i2b2pm_pswd
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
```

or

If running Sql Server:

```
db.type=sqlserver
db.username=i2b2pm
db.password=i2b2pm_pswd
db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
db.url=jdbc:sqlserver://localhost:1433;databasename=demo
```

- c) To create pm tables, indexes and sequences :
Run 'ant -f data_build.xml create_pmdata_tables_release_1-4'
- d) To create pm triggers :
Run 'ant -f data_build.xml create_triggers_release_1-4'
- e) To load data:
Data will be extracted from the 1.3 gridsphere-based PM database and loaded during the PM cell installation.

9. You are now ready to install the hive cells.

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License

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