



i2b2 Data
Installation Guide (Linux)

Version 1.0

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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/nbc/>). 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 install i2b2 demo data.

Document Version History

Date	Revision	Description	Author(s)
10/26/07	1.0	Version 1.0	Lori Phillips

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Prerequisites

Required Software

a. Oracle Express Edition

a) Download Oracle Database 10g Express Edition (Universal) 'oracle 10g EE' 'oracle-xe-univ-10.2.0.1-1.0.i386.rpm' from <http://www.oracle.com/technology/software/products/database/xe/htdocs/102xeinsoft.html>

b) Run 'rpm -i oracle-xe-univ-10.2.0.1-1.0.i386.rpm' as root

Run '/etc/init.d/oracle-xe configure' as root to configure the database

Select HTTP and listener ports (use defaults 8080/1521 if they are available)

Select 'Y'es to start on boot when asked

c) To verify that Oracle was properly installed, open a browser and enter <http://yourDbHost:yourPort/apex>. You should see an Oracle Database Express Edition login screen.

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Install

Installing the i2b2 Demo Data

1. Unzip demo data file into a folder: (/opt/data)

You should see:

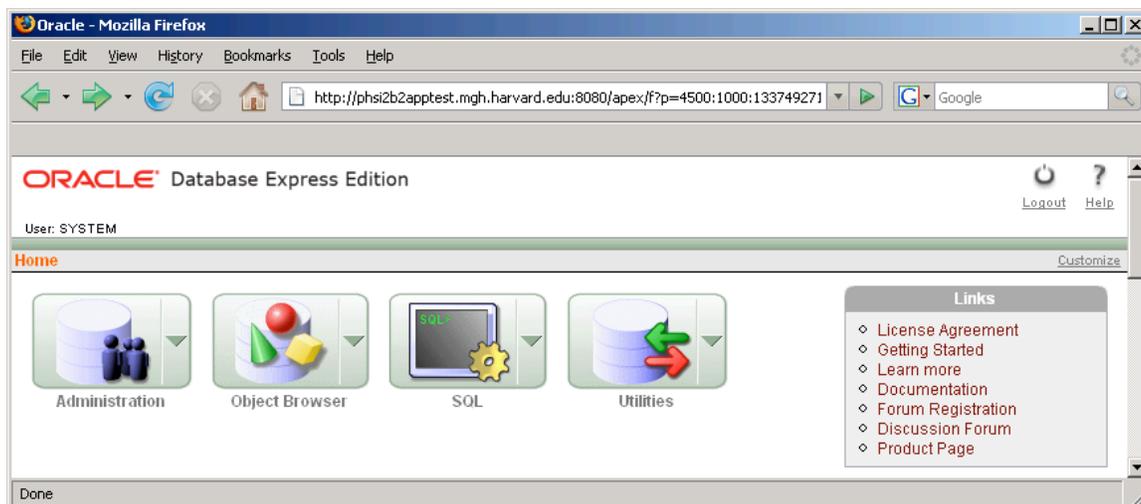
- a) i2b2demodata_create.sql
- b) i2b2demodata_data.sql
- c) i2b2metadata_create.sql
- d) i2b2metadata_data.sql
- e) db.oracle.properties
- f) build scripts

2. Create i2b2demodata and i2b2metadata user accounts in Oracle :

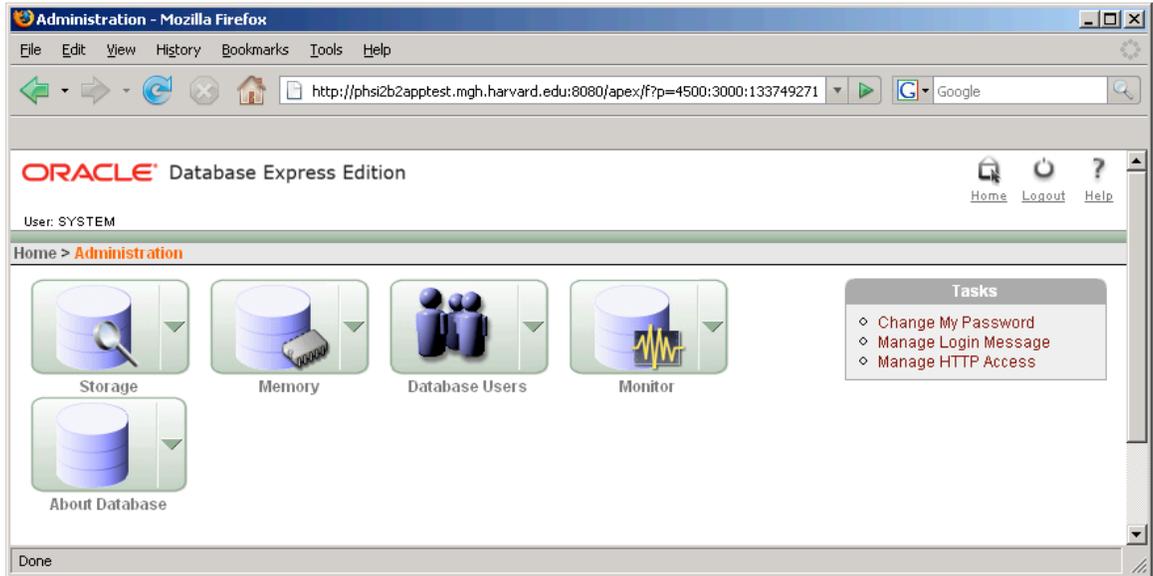
In browser, open <http://yourDbHost:8080/apex>.

Log in as system user

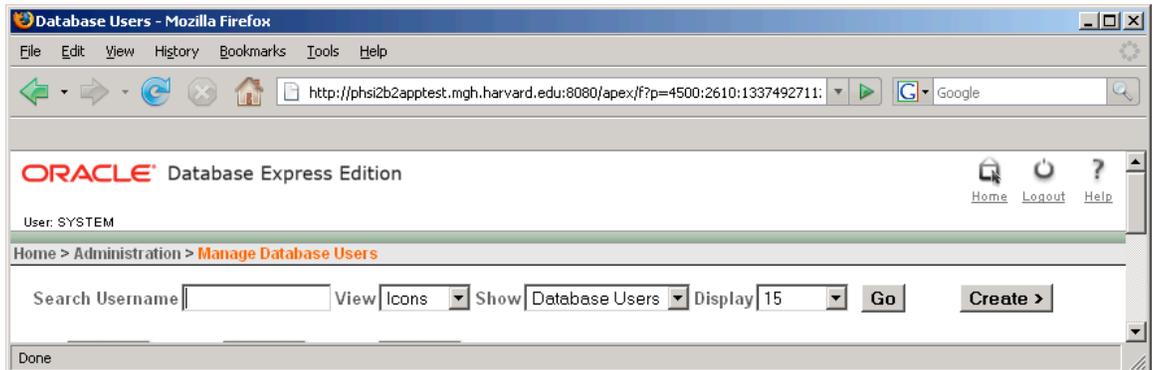
Select Administration



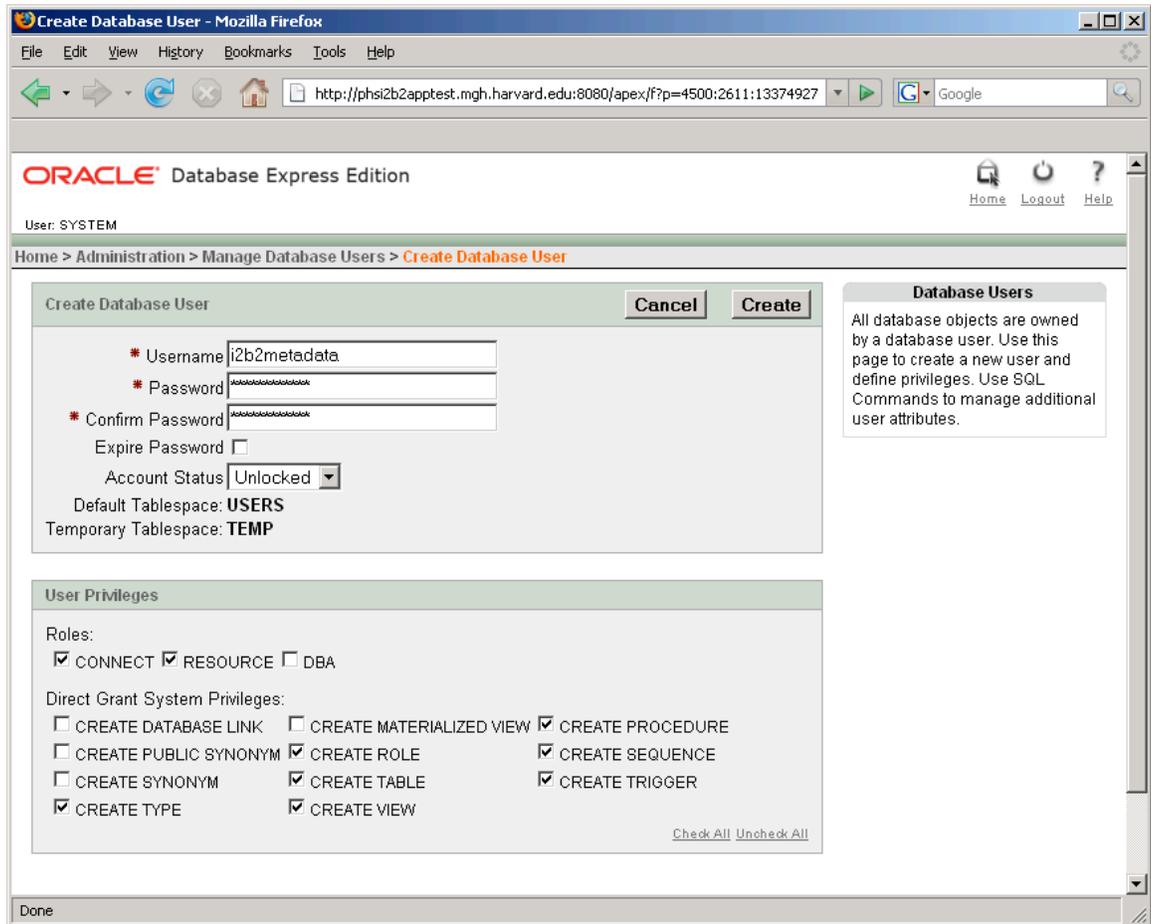
Select Database Users



Select Create



Enter i2b2metadata user name and password. Check off Direct grant system privileges as shown below. Repeat for i2b2demodata user name and password.



3. Create Metadata tables and data:

a) Open db.oracle.properties

Set database properties; be sure to set user to i2b2metadata

db.script.dir is the directory you unzipped the data file into in step 1.

```
db.type=oracle
db.username=i2b2metadata
db.password=i2b2metadata
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
db.script.dir=/opt/data
```

b) To create metadata tables, indexes and sequences :

Run 'ant db_metadata_create_table'

c) To load data:

Run 'ant db_metadata_load_data'

Alternatively, you may execute the i2b2metadata_data.sql script inside the Oracle's SQLPlus tool for a quicker data install process.

d) Grant certain permissions to user i2b2demodata

Run 'ant db_grant_metadata'

4. Create Demodata tables and data:

a) Open db.oracle.properties

Set database properties; be sure to set user to i2b2demodata

db.script.dir is the directory you unzipped the data file into in step 1.

```
db.type=oracle
db.username=i2b2demodata
db.password=i2b2demodata
db.server=localhost:1521:xe
db.driver=oracle.jdbc.driver.OracleDriver
db.url=jdbc:oracle:thin:@localhost:1521:xe
db.script.dir=/opt/data
```

b) To create demodata tables, indexes and sequences :

Run 'ant db_demodata_create_table'

c) To load data:

Run 'ant db_demodata_load_data'

Alternatively, you may execute the i2b2demodata_data.sql script inside the Oracle's SQLPlus tool for a quicker data install process.

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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.