

# i2b2 Usage Community FAQ

## The webclient keeps saying "The PM Cell or the address in the properties file is incorrect."

Try these possible fixes:

1. Check that the URL for the PM cell that is specified in `i2b2_config_data.js` in the root directory of the webclient is set correctly.
2. SELinux might be on and causing access problems. (If this is the problem, `/var/log/audit/audit.log` will have DENY messages.)
  - a. Option 1 (not recommended): turn off SELinux - Run `sudo setenforce 0`. (Only works until reboot.)
  - b. Option 2 (preferred): turn off the SELinux network connect protection - `setsebool -P httpd_can_network_connect 1` (Persists across reboots.)

## A user is locked out and I want to restore their access

User lockout information is stored in `pm_project_user_params`. To unlock, just execute this:

```
DELETE FROM pm_project_user_params WHERE user_id=[your user] AND param_name_cd='LOCKEDOUT'
```

Obfuscated users are automatically locked out if they ever perform the same query more than a certain number of times. This defaults to 7 and can be configured by the `edu.harvard.i2b2.crc.lockout.setfinderquery.count` parameter in the `hive_cell_params` table. To allow a user to repeat the same query after the lockout number of attempts, you must delete the previous queries from the `qt_query_master` table.

## Encounter set breakdowns fail but other breakdowns work fine

Check that your `QT_Patient_enc_collection` has less than two billion rows. If it grows too large over time, generating new encounter sets will fail. Delete unneeded encounter sets.

```
Example query: SELECT max(PATIENT_ENC_COLL_ID) FROM [dbo].[QT_PATIENT_ENC_COLLECTION]
```

## I want to use https on the Wildfly side (to communicate with the i2b2 cells)

You will want to enable Inter-cell SSL. See the [1.7.11 Release Notes](#).

## I want to use Active Directory in SQLServer

If you are using SQL Server, it is possible to use Active Directory accounts for the database users (i.e., Integrated Login) in the `db.properties` files. To enable this, replace

```
<connection-url>jdbc:sqlserver://localhost:1433</connection-url>
```

with

```
<connection-url>jdbc:sqlserver://localhost:1433;IntegratedSecurity=true;Trusted_Connection=Yes</connection-url>
```

Then the password field in the `<security>` section will be ignored and the SQLServer integrated security will be used.

## How do I contribute to the i2b2 code?

1. Create a [JIRA issue](#)
2. Make a [GitHub](#) pull request and reference the JIRA issue in the commit comment (e.g., "CORE-589: Fixed hyperspeed drive rotor").
3. Attest to the [DCO](#) (can be done by including text like 'I attest to <https://developercertificate.org/>' in the Pull Request)
4. E-mail someone on the i2b2 core development team (Mike Mendis or Jeff Klann at the time of writing).

Additionally, your contribution:

1. Must be tested
2. Must include unit tests (for new features)
3. Must include documentation (can be part of the pull request)

## Tips for Optimizing i2b2 query speed

## Postgres

1. Do not use '%' in any concept code. In Postgres, this is known to prevent the database from using indexes.
2. In Postgres, consider using table partitioning

## MSSQL

1. Use clustered columnstore indexes for the fact table.

## All platforms

1. If your fact table is extremely large, consider splitting it into multiple fact tables.
2. ... *more to come...*