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Connecting Matlab to Postgres database

Posted by kode on March 15, 2013   Go to comments   Leave a comment (0)

Assumptions

My primary focus is not on Matlab, but I used it for a while in the Uni. I have to support connecting Matlab installed on Windows machine with Postgres 9.2 database. I used the Matlab command window, so this have to be straightforward to do on you environment, assuming the database driver do not differ much in other environments.

Connection configuration

Connecting Matlab to Postgres requires to have JDBC driver, which you can download from here. Select current version or choose one appropriate for you OS from the Supported versions table. Put the jar file somewhere in your drive. I put mine at "C:\Program Files\MATLAB\R2011b\java\jar\postgresql-9.2-1002.jdbc4.jar" (1). Open Matlab command window and type

```
edit classpath.txt
```

...d the full path (quoted above) at the end of the file. In my case I added "$matlabroot/java/jar/postgresql-...-1002.jdbc4.jar" (2). Then close and start Matlab and verify the driver is loaded with typing in command window

```
javaclasspath
```

You should see the added driver path (1) above. Matlab supports connecting with and without SSL. Here are example strings to use in either cases:

```
rg.postgresql.Driver
dbc:postgresql://localhost:5432/database_name

rg.postgresql.Driver
jdbc:postgresql:servername:database_name:ssl=true&sslfactory=org.postgresql.ssl.NonVal
```

Querying connection

Connection string should look like

```
conn = database(database_name, database_user, user_password, 'Vendor', 'PostGreSQL');
```

Here is example to query "database_table" and show the data for the first row:

```
conn = database('database_name', 'database_user', 'user_password', 'org.postgresql.Dr
curs = exec(conn, ['SELECT * FROM "database_table";']);
row = fetch(curs, 1);
row.Data
```

Used arguments are self explaining and should be straightforward to follow.

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Postgres   Matlab, Postgres

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