Convert MySQL database to PostgreSQL

Step-1

To install mysql2psql (under ubuntu 11.10): No need to get from github, just:
gem install mysql pg mysql2psql

if there is no gem install it first,

apt-get update && apt-get -y upgrade && apt-get install -y apache2 php5 libapache2-mod-php5 php5-mysql libapache2-mod-perl2 libcurl4-openssl-dev libssl-dev apache2-prefork-dev libapr1-dev libaprutil1-dev libmysqlclient-dev libmagickcore-dev libmagickwand-dev curl git-core gitolite patch build-essential bison zlib1g-dev libssl-dev libxml2-dev libxml2-dev sqlite3 libsqlite3-dev autotools-dev libxslt1-dev libyaml-0-2 autoconf automake libreadline6-dev libyaml-dev libtool imagemagick apache2-utils ssh zip libicu-dev libssh2-1 libssh2-1-dev cmake libgpg-error-dev subversion libapache2-svn nano

apt-get -y install software-properties-common

add-apt-repository ppa:brightbox/ruby-ng

apt-get update

apt-get -y install ruby2.1 ruby-switch ruby2.1-dev ri2.1 libruby2.1 libssl-dev zlib1g-dev

ruby-switch --set ruby2.1
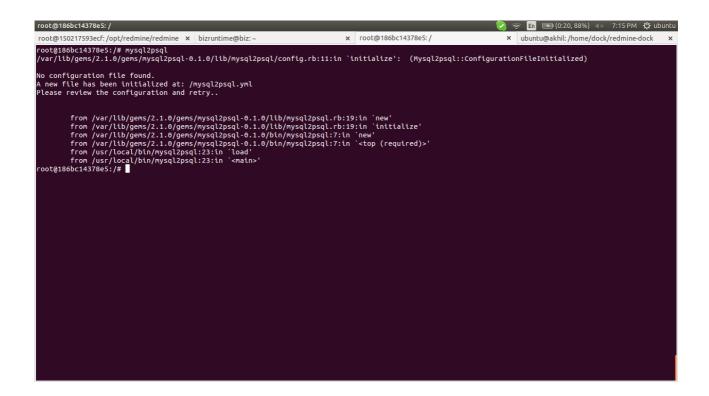
gem update

gem install mysql pg mysql2psql

Step-2
To get info about the mysql socket:(run this on mysql server)

netstat -l | grep mysql
or
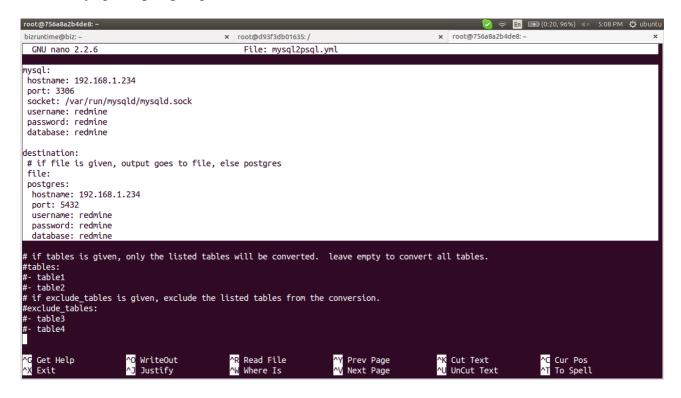# netstat -ln | grep -o -m 1 -E '\S*mysqld?\.sock'

Step-3
creates a .yml template
mysql2psql

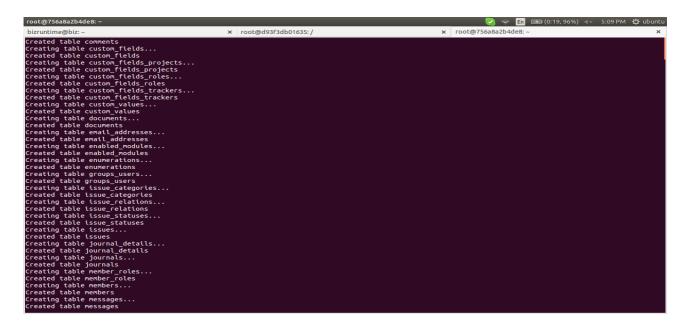now it shows some error and a "mysql2psql.yml" file for make our work more easy

```
root@186bc14378e5: /
root@150217593ecf: /opt/redmine/redmine    x    bizruntime@biz: ~                    x    root@186bc14378e5: /                    x    ubuntu@akhil: /home/dock/redmine-dock    x
root@186bc14378e5:/# mysql2psql
/var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql/config.rb:11:in `initialize': (Mysql2psql::ConfigurationFileInitialized)

No configuration file found.
A new file has been initialized at: /mysql2psql.yml
Please review the configuration and retry..

        from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql.rb:19:in `new'
        from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/lib/mysql2psql.rb:19:in `initialize'
        from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/bin/mysql2psql:7:in `new'
        from /var/lib/gems/2.1.0/gems/mysql2psql-0.1.0/bin/mysql2psql:7:in `<top (required)>'
        from /usr/local/bin/mysql2psql:23:in `load'
        from /usr/local/bin/mysql2psql:23:in `<main>'
root@186bc14378e5:/#
```

Step-4

edit the template
nano mysql2psql.yml
edit the mysql and postgresql section


```
root@756a8a2b4de8: ~
bizruntime@biz: ~                    x    root@d93f3db01635: /                    x    root@756a8a2b4de8: ~                    x
  GNU nano 2.2.6                      File: mysql2psql.yml

mysql:
 hostname: 192.168.1.234
 port: 3306
 socket: /var/run/mysqld/mysqld.sock
 username: redmine
 password: redmine
 database: redmine

destination:
 # if file is given, output goes to file, else postgres
 file:
 postgres:
  hostname: 192.168.1.234
  port: 5432
  username: redmine
  password: redmine
  database: redmine

# if tables is given, only the listed tables will be converted.  leave empty to convert all tables.
#tables:
#- table1
#- table2
# if exclude_tables is given, exclude the listed tables from the conversion.
#exclude_tables:
#- table3
#- table4


^G Get Help      ^O WriteOut      ^R Read File      ^Y Prev Page      ^K Cut Text       ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is       ^V Next Page      ^U UnCut Text     ^T To Spell
```

Step-5
connects to mysql database and write into postgres database
mysql2psql

links: http://nicolas-brousse.github.io/ubuntu-install-and-tips/pages/others/mysql-to-postgresql/

%%%

here is an example for converting mysql to psql database for redmine
after step 5 we need to reconfigure the redmine database.yml file

Step-6

{redmine home}/config/database.yml
mysql db configuration show below
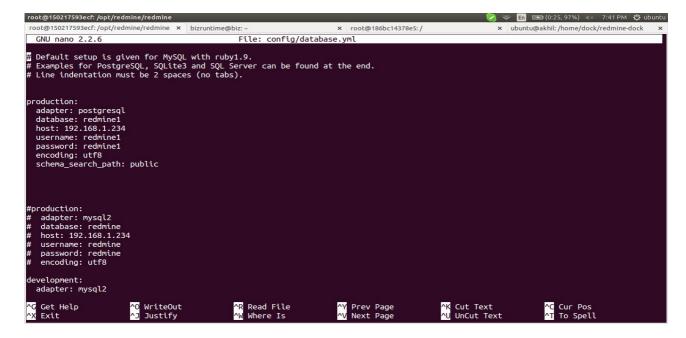
production:
  adapter: mysql2
  database: redmine
  host: 192.168.1.234
  username: redmine
  password: redmine
  encoding: utf8

change this to postgresql db configuration

production:
  adapter: postgresql
  database: redmine
  host: 192.168.1.234
  username: redmine
  password: redmine
  encoding: utf8
  schema_search_path: public

```
root@150217593ecf: /opt/redmine/redmine                     ☑ 🔆 En 📖(0:25, 97%) ◀× 7:41 PM ⚙ ubuntu
root@150217593ecf: /opt/redmine/redmine  ✕ │ bizruntime@biz: ~        ✕ │ root@186bc14378e5: /        ✕ │ ubuntu@akhil: /home/dock/redmine-dock  ✕

  GNU nano 2.2.6                      File: config/database.yml

# Default setup is given for MySQL with ruby1.9.
# Examples for PostgreSQL, SQLite3 and SQL Server can be found at the end.
# Line indentation must be 2 spaces (no tabs).

production:
  adapter: postgresql
  database: redmine1
  host: 192.168.1.234
  username: redmine1
  password: redmine1
  encoding: utf8
  schema_search_path: public



#production:
#  adapter: mysql2
#  database: redmine
#  host: 192.168.1.234
#  username: redmine
#  password: redmine
#  encoding: utf8

development:
  adapter: mysql2

^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text    ^T To Spell
```

Step-7

whenever made a changes in config files of redmine need to use this command for activate

 # bundle install --without development test postgresql sqlite

links : http://www.redmine.org/projects/redmine/wiki/redmineinstall

Step-8

after migration try to create a new tickets to check whether it is working properly or not