COMP9315 19T2 DBMS Implementation

Assignment 1

Testing Resources

Last updated: **Wednesday 26th June 1:42pm**
Most recent changes are shown in red;
older changes are shown in brown.

The following files contain material that might assist you in testing your email address data type. They involve a simple database with two tables:

```
Users(username, realname)
Sessions(id, username, loggedin)
```

There are actually two versions of the database: one implements the `username` fields as `EmailAddr` values, while the other does them simply as text strings. The second version is provided for you just to play around with the data.

To create the `username`-as-text version of the database, run the following commands:

```
$ createdb test0
$ psql test0 -f schema0.sql
... some messages about creating tables ...
$ psql test0 -f data0.sql > .errs  2>&1
```

Note that the second `psql` command writes its output into a file called `.errs`. You should check this to ensure that no errors occured during the data loading.

To create the `username`-as-`EmailAddr` version of the database, run the following commands (*after* you have implemented the `EmailAddr` data type):

```
$ createdb test
$ psql test -f schema.sql
... some messages about creating tables ...
$ psql test -f data1.sql > .errs  2>&1
```

The following files are available:

schema0.sql	Schema definition where `usernames` are implemented as simple text. Obviously doesn't require you to have implemented your `EmailAddr` data type.
data0.sql	Data to load into schema from `schema0.sql`. Contains around 1600 Users and 2000 Sessions. File size is around 300KB.
schema.sql	Schema definition where `usernames` are implemented as `EmailAddr` values.
data1.sql	Data to load into schema from `schema1.sql`. Contains around 1600 Users and 2000 Sessions. Has the same tuples as `data0.sql`. File size is around 350KB.
data2.sql	A larger set of tuples to load into `schema1.sql`. You should drop the database and re-create it before loading this data if you already have a database populated from `data1.sql`. The uncompressed file size is 2MB, so I have compressed it and not set it up as a link. If you want to use it, load it direct from the file e.g. `xzcat /web/cs9315/19T2/assignments/ass1/testing/data2.sql.xz | psql mydb`
data3.sql	An even larger set of tuples to load into `schema1.sql`. You should drop the database and re-create it before loading this data if you already have a database populated from `data1.sql`. The uncompressed file size is 18MB, so I have compressed it and not set it up as a link. If you want to use it, load it direct from the file e.g. `xzcat /web/cs9315/19T2/assignments/ass1/testing/data3.sql.xz | psql mydb`
queries.sql	Suggestions for some SQL statements to try on the database. Note that some of them are intended to cause errors.

Note that all of the email addresses in the data files are generated randomly. If any real email addresses appear, it is purely coincidental.

Right-mouse-click on the file name to download the file (in Chrome, at least).