GEOG 574 - Lab 2: PostgreSQL Tutorial II: Command Line

1.

```
For more information, type "\?" (for internal commands) or "\help" (for SQL commands) from within psql, or consult the psql section in the PostgreSQL documentation.

Report bugs to <pgsql-bugs@postgresql.org>.

c:\lab2>createdb -U postgres testdb

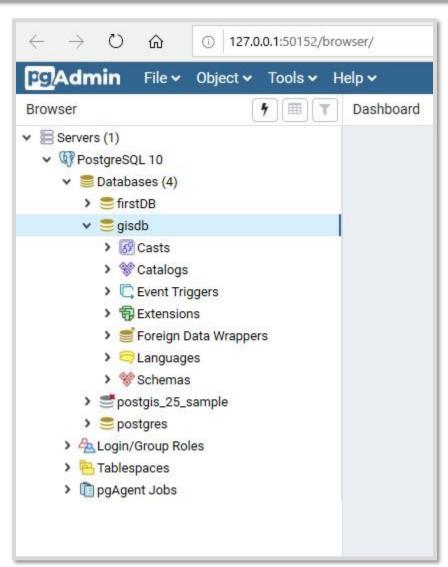
c:\lab2>dropdb -U postgres testdb
dropdb: database removal failed: ERROR: database "testdb" is being accessed by other users DETAIL: There is 1 other session using the database.

c:\lab2>dropdb -U postgres testdb

c:\lab2>creatdb -U postgres gisdb
'creatdb' is not recognized as an internal or external command, operable program or batch file.

c:\lab2>createdb -U postgres gisdb

c:\lab2>createdb -U postgres gisdb
```

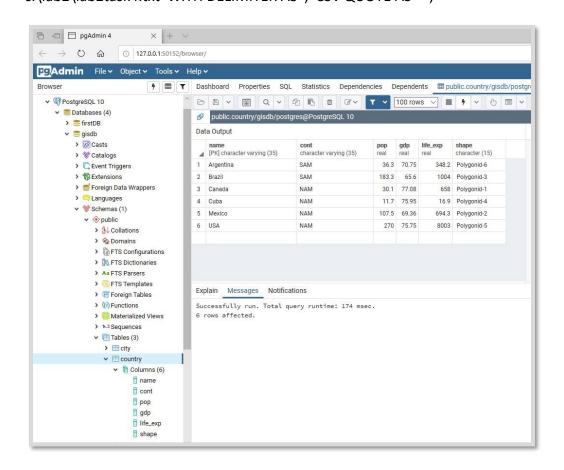


2. The type of schema that is represented is conceptual. This schema is considered conceptual because it defines or describes the data types attributes (name, country, pop..), related data types (integer, real, char..), constraints, and relationship.

```
3. CREATE TABLE city(
name varchar(35),
country varchar(35),
pop real,
capital char(1),
shape char(15),
primary key (name)
);
```

```
gisdb=# CREATE TABLE city(
gisdb(#
             name
                               varchar(35),
gisdb(#
                               varchar(35),
              country
gisdb(#
                               real,
             pop
                               char(1),
gisdb(#
              capital
gisdb(#
                               char(15),
             shape
gisdb(#
             primary key (name)
gisdb(# );
CREATE TABLE
gisdb=# \dt
          List of relations
 Schema
           Name
                   Type
                               Owner
 public
          city
                     table
                              postgres
 public
          country
                     table
                              postgres
 public |
          river
                     table
                              postgres
 3 rows)
```

 Copy command: gisdb=# copy country (name, cont, pop, life_exp, gdp, shape) from 'c:\lab2\lab2task4.txt' WITH DELIMITER AS ',' CSV QUOTE AS ''';



Delete command: delete from country where name= 'Mexico';

```
gisdb=# copy country (name, cont, pop, life_exp, gdp, shape) from 'c:\lab2\lab2task4.txt' WITH DELIMITER
AS ',' CSV QUOTE AS '''';
COPY 6
gisdb=# delete from country where name= 'Mexico';
DELETE 1
gisdb=#
```

SQL command statement: select name, country from city;

```
gisdb=# select name, country from city;
                country
Havana
                  Cuba
                  USA
Washington D.C.
                  Mexico
Monterrey
                  Canada
 Toronto
Brasilia
                  Brazil
Rosario
                  Argentina
Ottawa
                  Canada
Mexico City
                   Mexico
 Buenos Aires
                  Argentina
(9 rows)
```

7. SQL command statements:

\i c:/lab2/load-river.sql select name, origin from river;

```
gisdb=# \i c:/lab2/load-river.sql
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
gisdb=# select name, origin from river;
              origin
     name
 Rio Parana
                Brazil
 St. Lawrence
                USA
 Rio Grande
                USA
                USA
 Mississippi
 4 rows)
```

8. PostgreSQL returns errors due to duplicate features found in the table. The duplicate features need to be removed prior to running the load command.

SQL command statements:

delete from country;

\q

psql -U postgres -f load-country.sql gisdb

```
c:\lab2>psql -U postgres gisdb
Password for user postgres:
psql (10.10)
WARNING: Console code page (437) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.
gisdb=# delete from country;
DELETE 6
gisdb=# \q
c:\lab2>psql -U postgres -f load-country.sql gisdb
Password for user postgres:
INSERT 0 1
```

