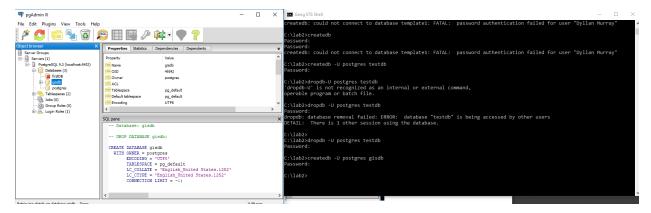
Question 1



Question 2:

The data is in the logical design phase and there has a logical schema.

Question 3:

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

Question 4:

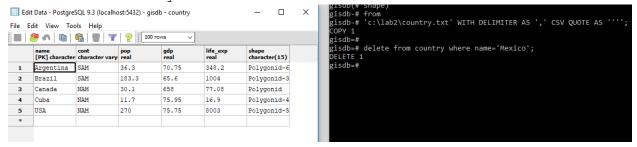
```
copy country(name,
cont,
pop,
life_exp,
gdp,
shape)
from
```

'c:\lab2\country.txt' WITH DELIMITER AS ',' CSV QUOTE AS '''';

```
gisdb-# from
gisdb-# c:\lab2\country.txt' WITH DELIMITER AS ',' CSV QUOTE AS ''';
ERROR: duplicate key value violates unique constraint "country_pkey"
DETAIL: Key (name)=(Canada) already exists.
CONTEXT: COPY country, line 1
gisdb=# copy country(name,
gisdb(# cont,
gisdb(# pop,
gisdb(# pop,
gisdb(# pdp,
gisdb(# pdp,
gisdb(# pdp,
Edit Data - PostgreSQL 9.3 (localhost:5432) - gisdb - country
File Edit View Tools Help
 ■ | 🥮 🦚 | 🛍 | 🖷 | 🕎 | 💡 🛙 100 rows
         name cont pop
                                                                       life_exp
real
                                                                                        shape
character(15)
   1 Argentina SAM
                                       36.3
                                                         70.75
                                                                        348.2
                                                                                        Polygonid-6
         Brazil
                         SAM
                                         183.3
                                                        65.6
                                                                        1004
                                                                                        Polygonid-3
                                                                                                                     isdb(# gdp,
isdb(# shape)
  3 Canada
                        NAM
                                         30.1
                                                        658
                                                                        77.08
                                                                                        Polygonid
         Cuba
                         NAM
                                        11.7
                                                        75.95
                                                                        16.9
                                                                                        Polygonid-4
                                                                                                                     isdb-# from
isdb-# 'c:\lab2\country.txt' WITH DELIMITER AS ',' CSV QUOTE AS ''';
         Mexico NAM
                                        107.5
                                                        69.36
                                                                        694.3
                                                                                        Polygonid-2
   6 USA
                         NAM
                                        270
                                                        75.75
                                                                        8003
                                                                                        Polygonid-5
```

Question 5

delete from country where name='Mexico';



Question 6

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

Question 7

select name, origin from river;

```
gisdb=# \i c:/lab2/load-river.sql
psql:c:/lab2/load-river.sql:1: ERROR: duplicate key value violates unique constraint "river_pkey"
DETAIL: Key (name)=(Rio Parana) already exists.
INSERT 0 1
INSERT 0 1
INSERT 0 1
gisdb=# select name, country from river;
ERROR: column "country" does not exist
LINE 1: select name, country from river;
gisdb=# select name, origin from river;
              origin
    name
 Rio Parana
               Brazil
 St. Lawrence
               USA
               USA
 Rio Grande
 Mississippi
               USA
 4 rows)
```

Question 8

PostgreSQL returns an error because there are duplicates of the primary key constraint, which was specified in the DDL. Because the value of the primary key attribute should be unique for

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each row, PostgreSQL returns an error when attempting to load in data with the same primary key.

Delete from country;

```
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
```