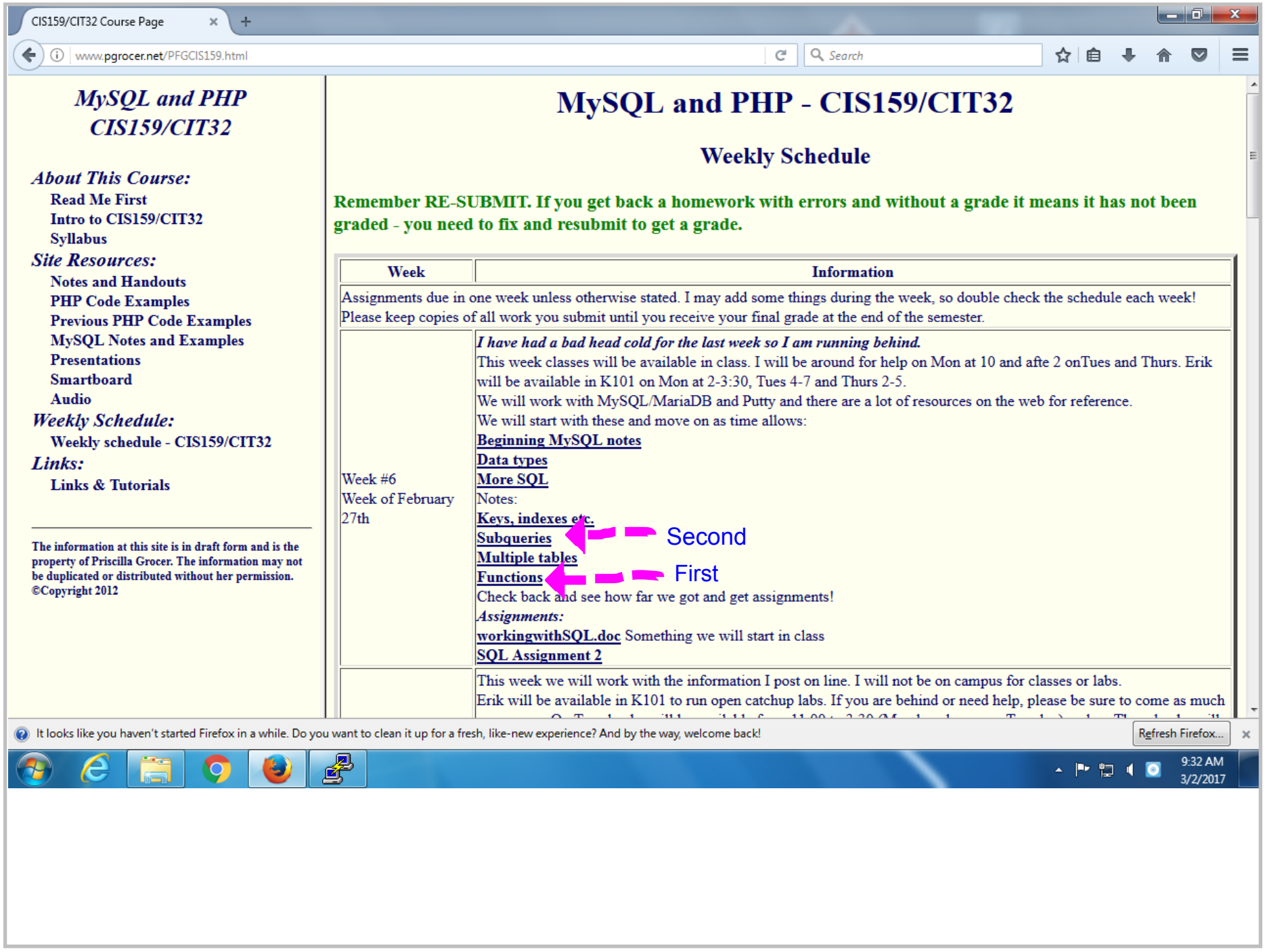
CIS159/CIT32 Course Page
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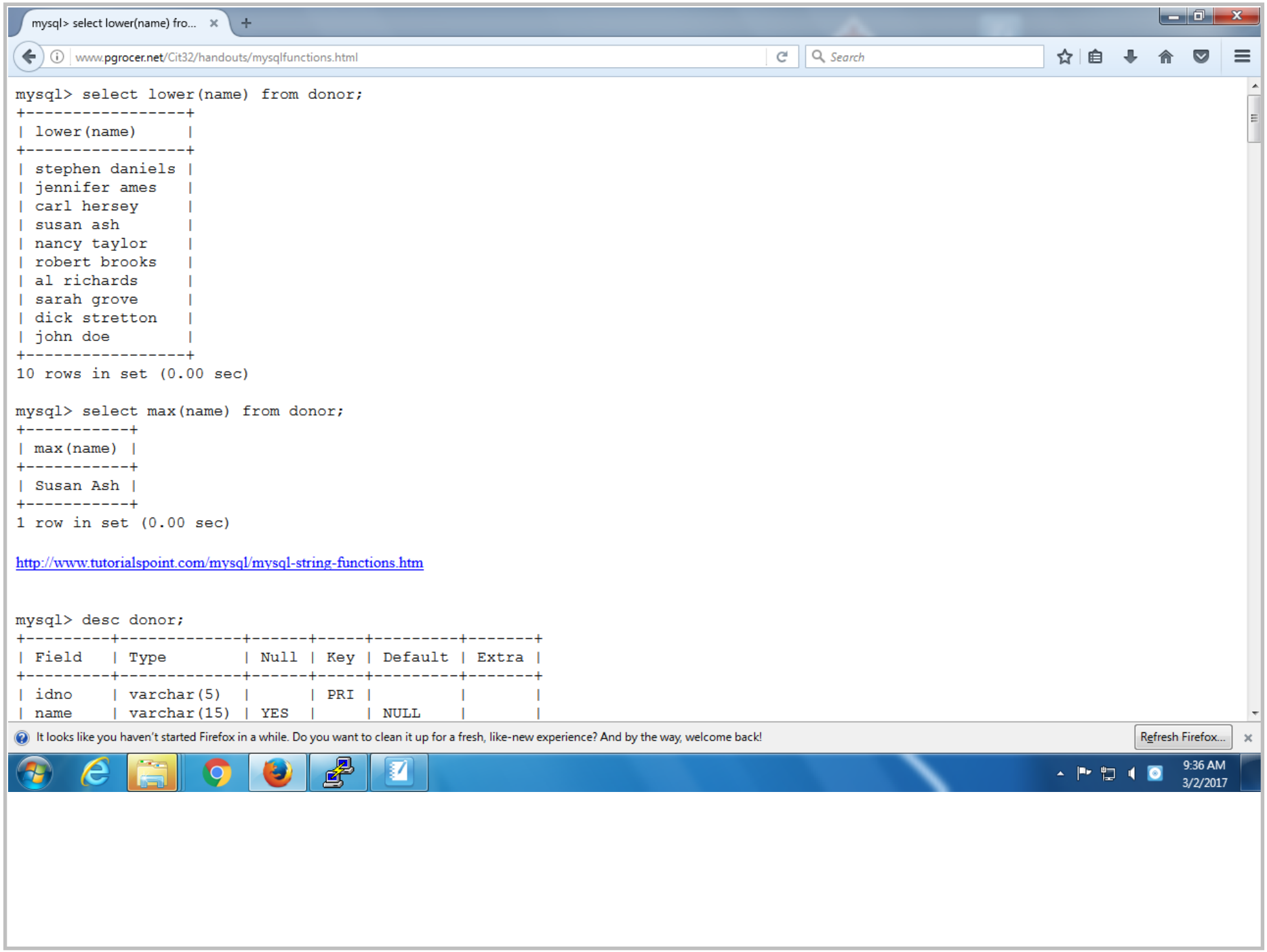
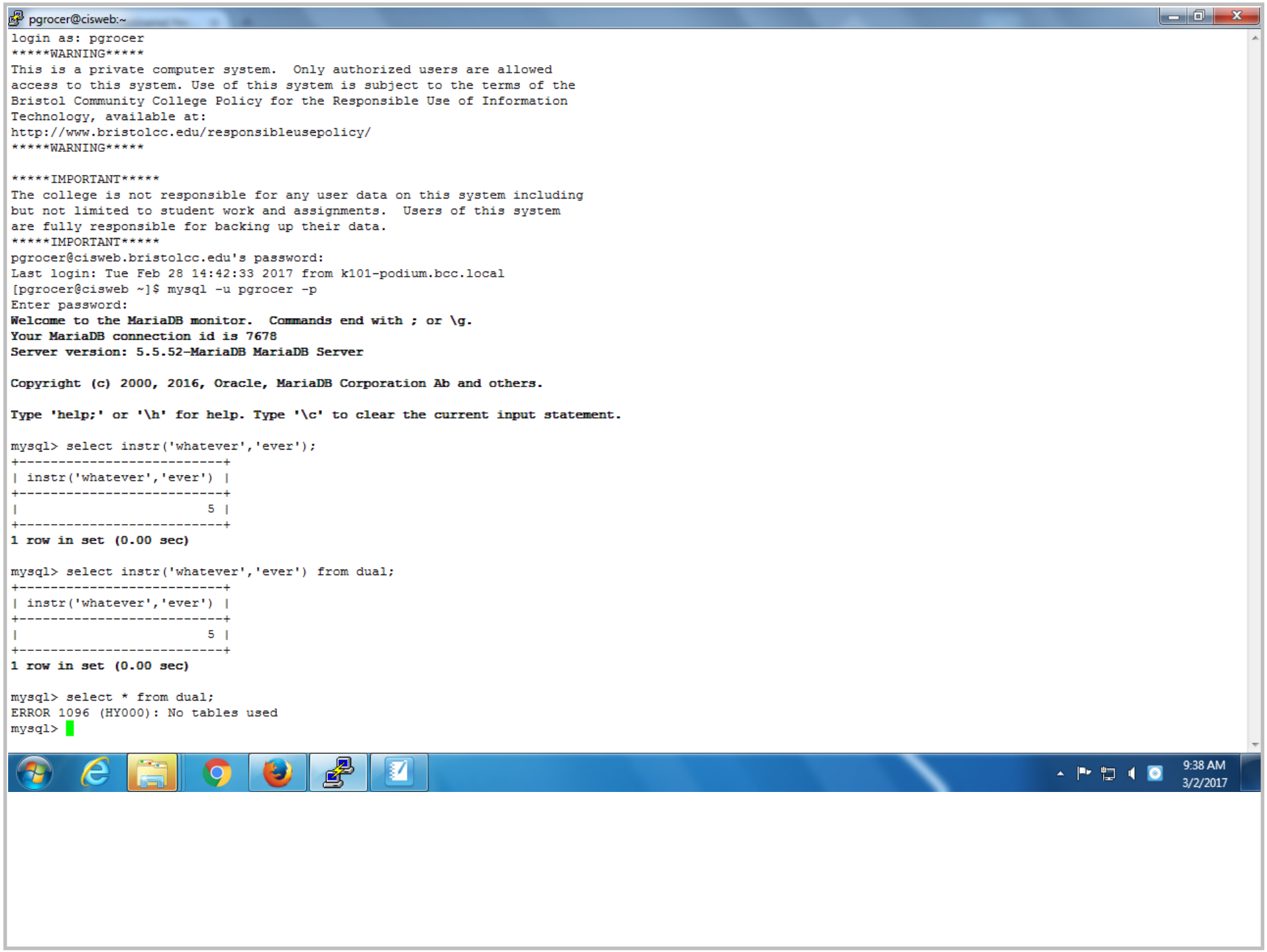
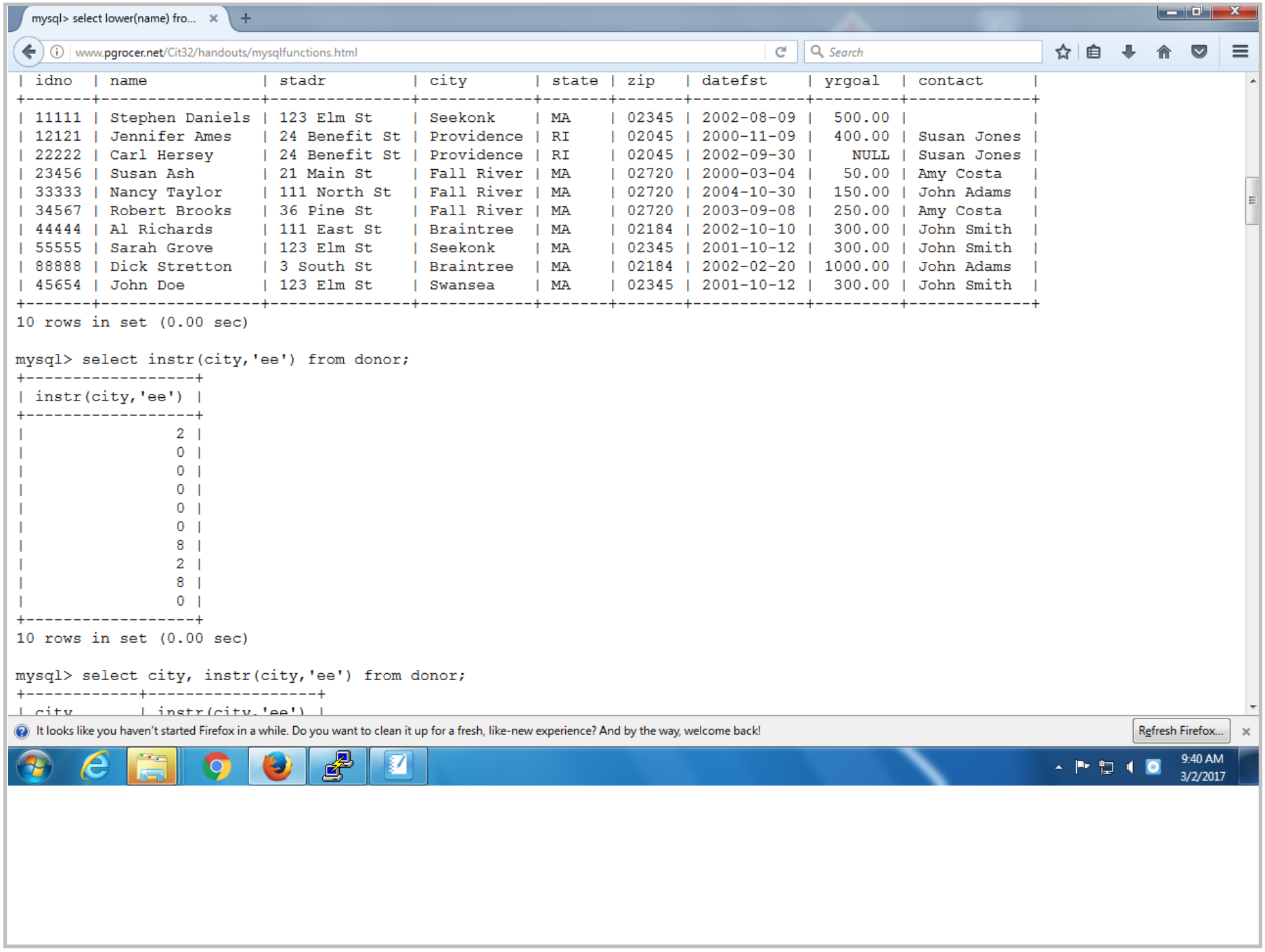
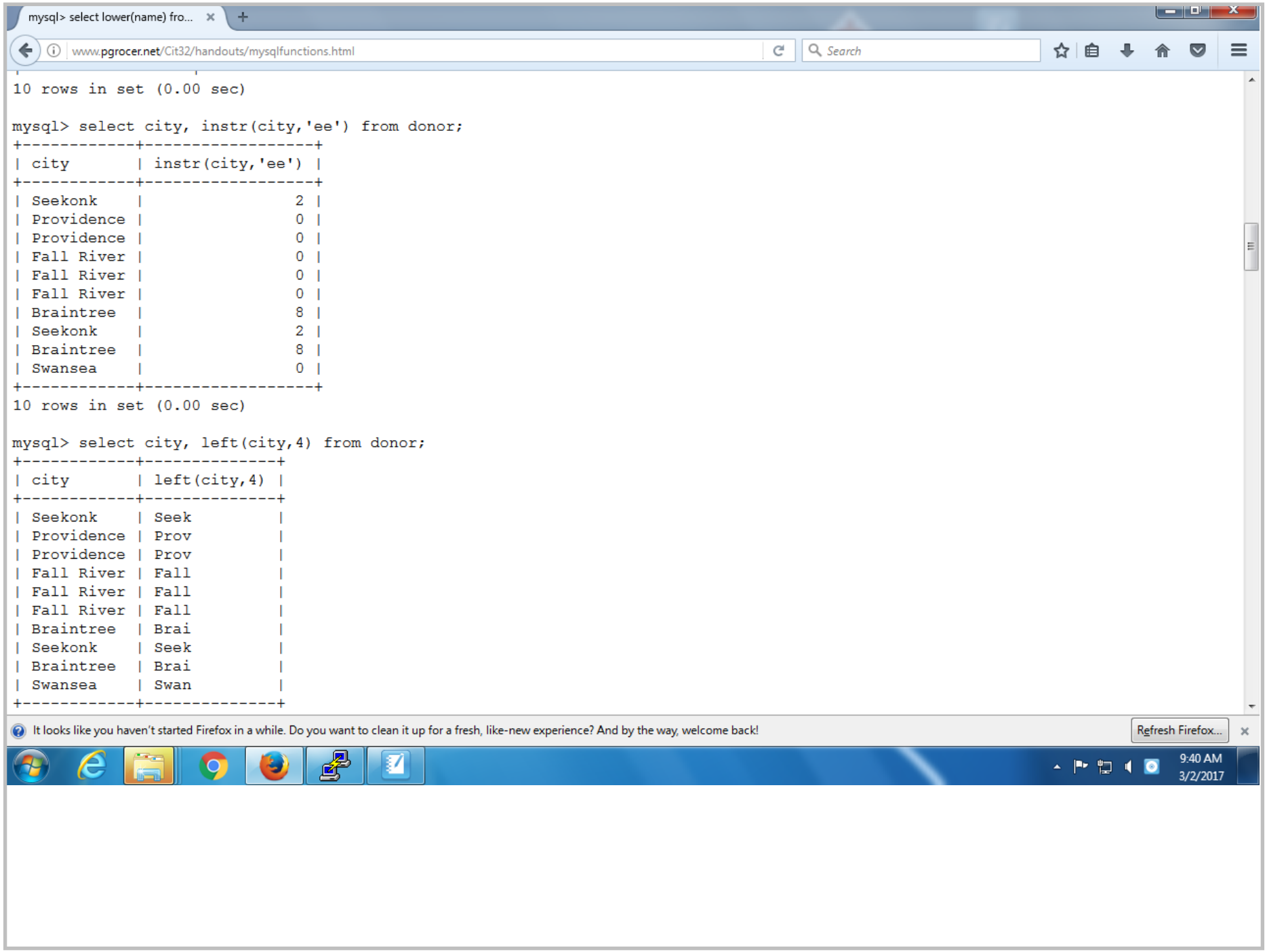
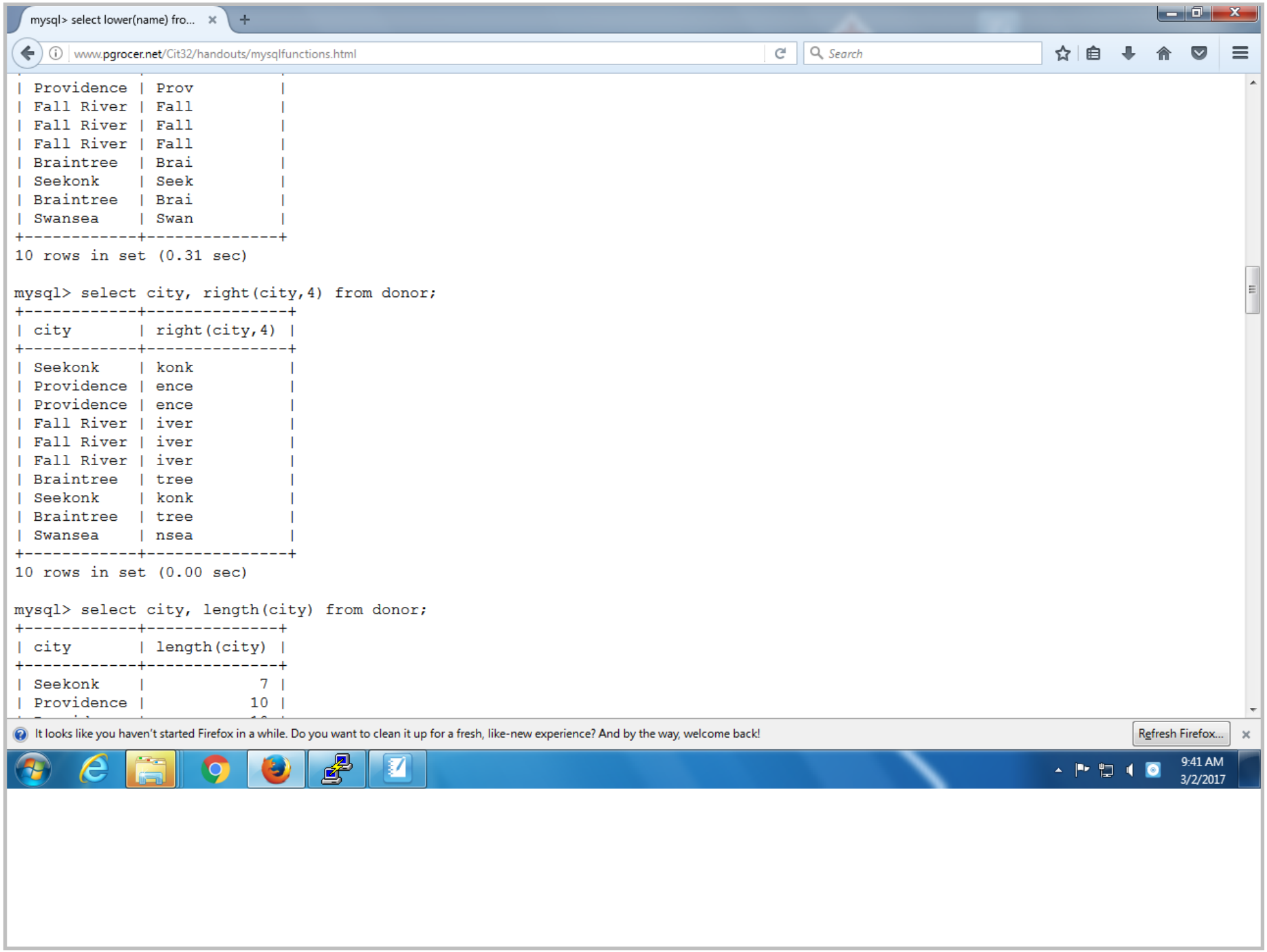
MySQL and PHP - CIS159/CIT32
Weekly Schedule
Remember RE-SUBMIT. If you get back a homework with errors and without a grade it means it has not been graded - you need to fix and resubmit to get a grade.
Week
Information
Assignments due in one week unless otherwise stated. I may add some things during the week, so double check the schedule each week!
Please keep copies of all work you submit until you receive your final grade at the end of the semester.
Week #6
Week of February 27th
I have had a bad head cold for the last week so I am running behind.
This week classes will be available in class. I will be around for help on Mon at 10 and afte 2 onTues and Thurs. Erik will be available in K101 on Mon at 2-3:30, Tues 4-7 and Thurs 2-5.
We will work with MySQL/MariaDB and Putty and there are a lot of resources on the web for reference.
We will start with these and move on as time allows:
Beginning MySQL notes
Data types
More SQL
Notes:
Keys, indexes etc.
Subqueries
Multiple tables
Functions
Second
First
Check back and see how far we got and get assignments!
Assignments:
workingwithSQL.doc Something we will start in class
SQL Assignment 2
This week we will work with the information I post on line. I will not be on campus for classes or labs.
Erik will be available in K101 to run open catchup labs. If you are behind or need help, please be sure to come as much
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:32 AM
3/2/2017

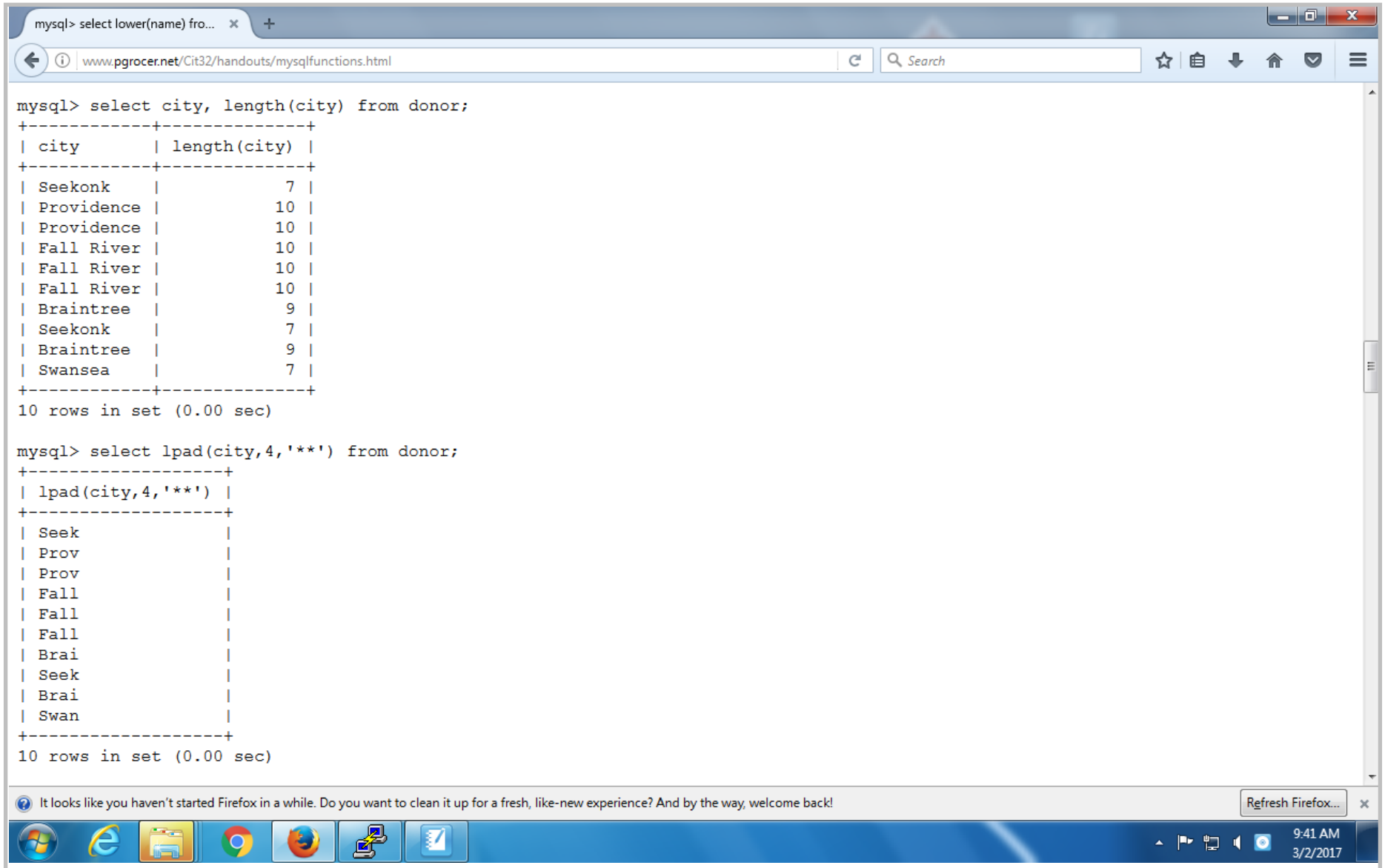

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
mysql> select lower(name) from donor;
+-----------------+
| lower(name) |
+-----------------+
| stephen daniels |
| jennifer ames |
| carl hersey |
| susan ash |
| nancy taylor |
| robert brooks |
| al richards |
| sarah grove |
| dick stretton |
| john doe |
+-----------------+
10 rows in set (0.00 sec)
mysql> select max(name) from donor;
+-----------+
| max(name) |
+-----------+
| Susan Ash |
+-----------+
1 row in set (0.00 sec)
http://www.tutorialspoint.com/mysql/mysql-string-functions.htm
mysql> desc donor;
+---------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| idno | varchar(5) | | PRI | | |
| name | varchar(15) | YES | | NULL | |
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:36 AM
3/2/2017

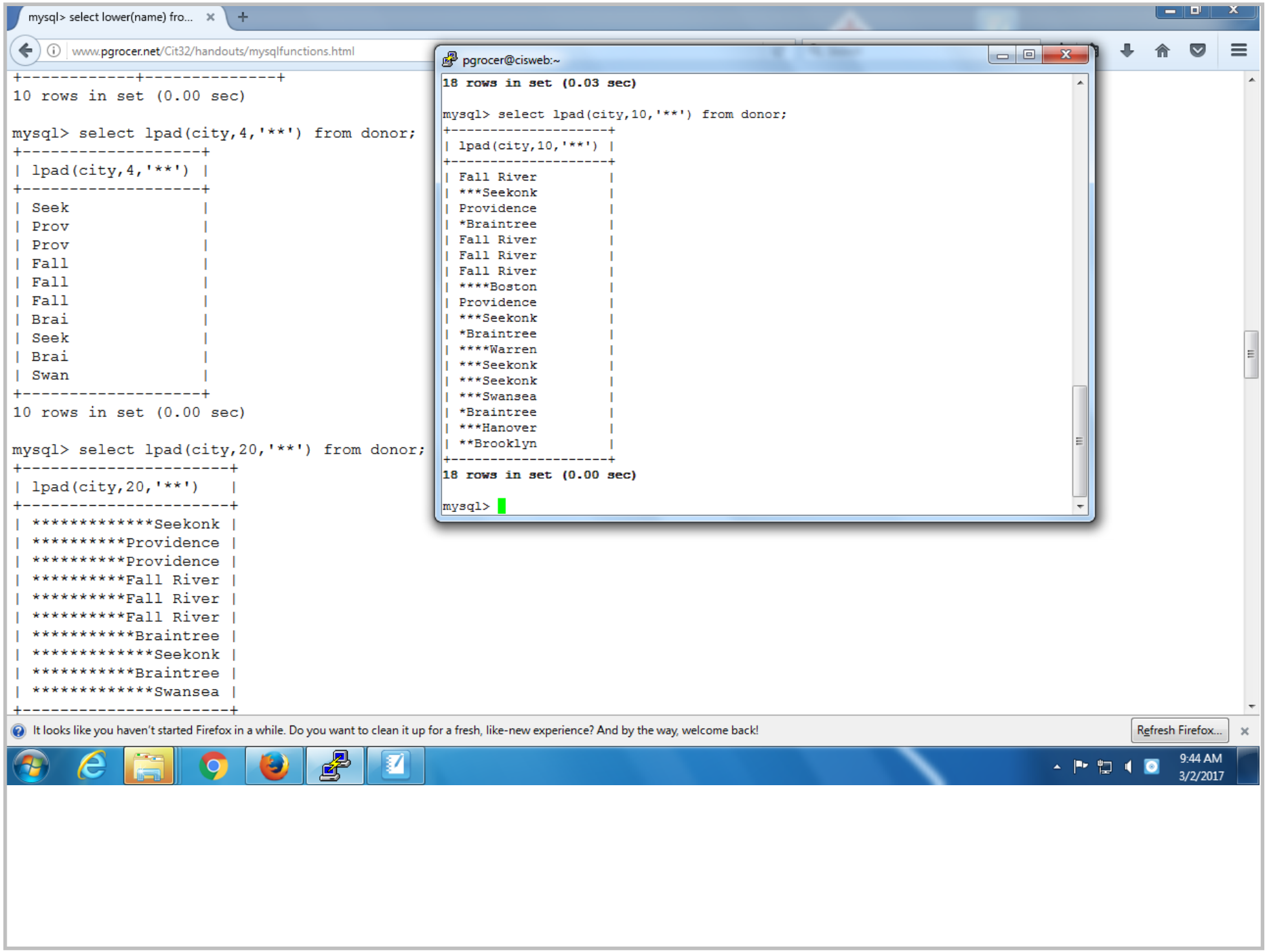

pgrocer@cisweb:~
login as: pgrocer
*****WARNING*****
This is a private computer system. Only authorized users are allowed
access to this system. Use of this system is subject to the terms of the
Bristol Community College Policy for the Responsible Use of Information
Technology, available at:
http://www.bristolcc.edu/responsibleusepolicy/
*****WARNING*****
*****IMPORTANT*****
The college is not responsible for any user data on this system including
but not limited to student work and assignments. Users of this system
are fully responsible for backing up their data.
*****IMPORTANT*****
pgrocer@cisweb.bristolcc.edu's password:
Last login: Tue Feb 28 14:42:33 2017 from k101-podium.bcc.local
[pgrocer@cisweb ~]$ mysql -u pgrocer -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 7678
Server version: 5.5.52-MariaDB MariaDB Server
Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> select instr('whatever','ever');
+--------------------------+
| instr('whatever','ever') |
+--------------------------+
| 5 |
+--------------------------+
1 row in set (0.00 sec)
mysql> select instr('whatever','ever') from dual;
+--------------------------+
| instr('whatever','ever') |
+--------------------------+
| 5 |
+--------------------------+
1 row in set (0.00 sec)
mysql> select * from dual;
ERROR 1096 (HY000): No tables used
mysql>
9:38 AM
3/2/2017

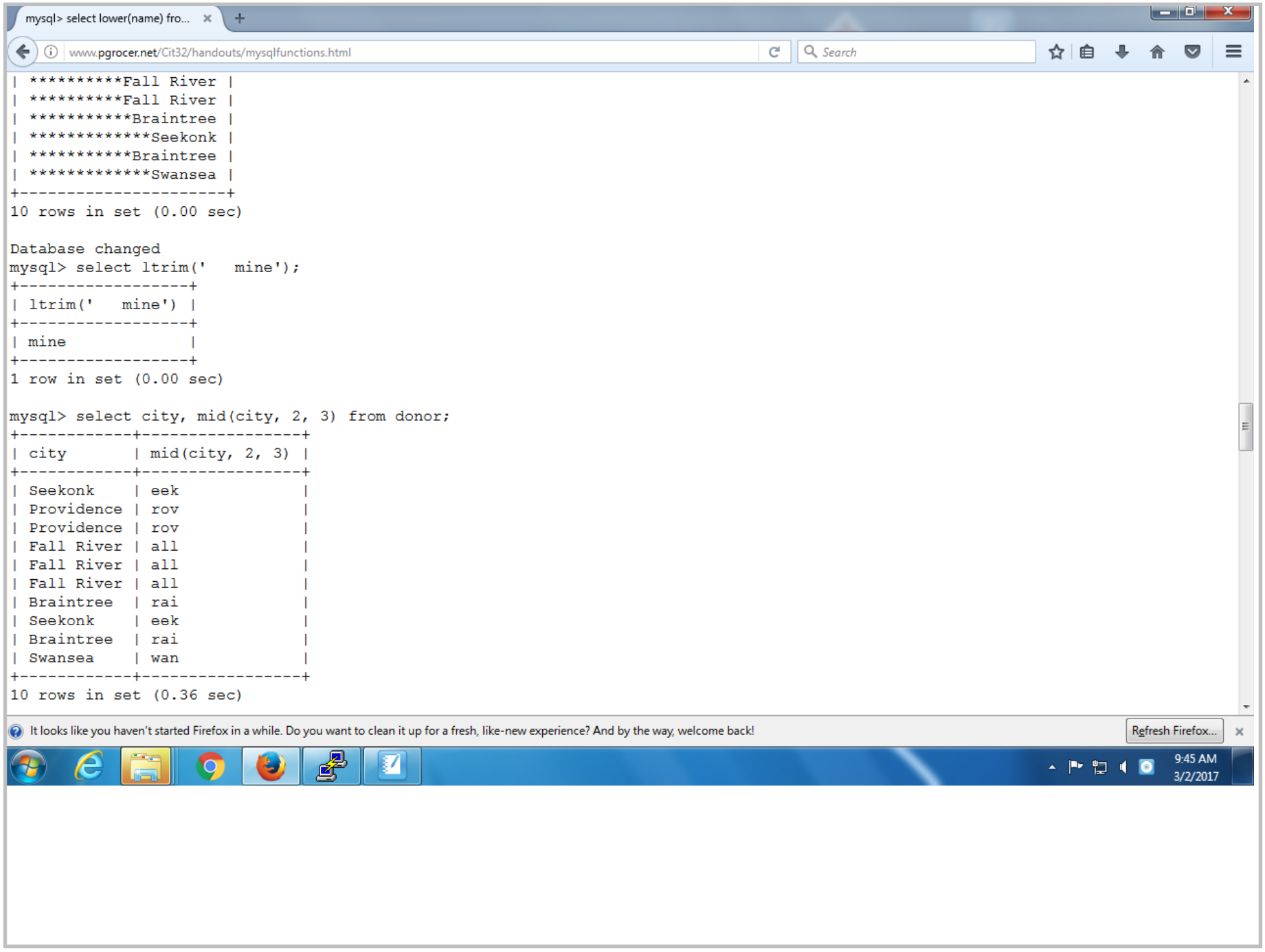

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
idno	name	stadr	city	state	zip	datefst	yrgoal	contact
11111	Stephen Daniels	123 Elm St	Seekonk	MA	02345	2002-08-09	500.00	
12121	Jennifer Ames	24 Benefit St	Providence	RI	02045	2000-11-09	400.00	Susan Jones
22222	Carl Hersey	24 Benefit St	Providence	RI	02045	2002-09-30	NULL	Susan Jones
23456	Susan Ash	21 Main St	Fall River	MA	02720	2000-03-04	50.00	Amy Costa
33333	Nancy Taylor	111 North St	Fall River	MA	02720	2004-10-30	150.00	John Adams
34567	Robert Brooks	36 Pine St	Fall River	MA	02720	2003-09-08	250.00	Amy Costa
44444	Al Richards	111 East St	Braintree	MA	02184	2002-10-10	300.00	John Smith
55555	Sarah Grove	123 Elm St	Seekonk	MA	02345	2001-10-12	300.00	John Smith
88888	Dick Stretton	3 South St	Braintree	MA	02184	2002-02-20	1000.00	John Adams
45654	John Doe	123 Elm St	Swansea	MA	02345	2001-10-12	300.00	John Smith
10 rows in set (0.00 sec)
mysql> select instr(city,'ee') from donor;
instr(city,'ee')
2
0
0
0
0
0
8
2
8
0
10 rows in set (0.00 sec)
mysql> select city, instr(city,'ee') from donor;
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:40 AM
3/2/2017

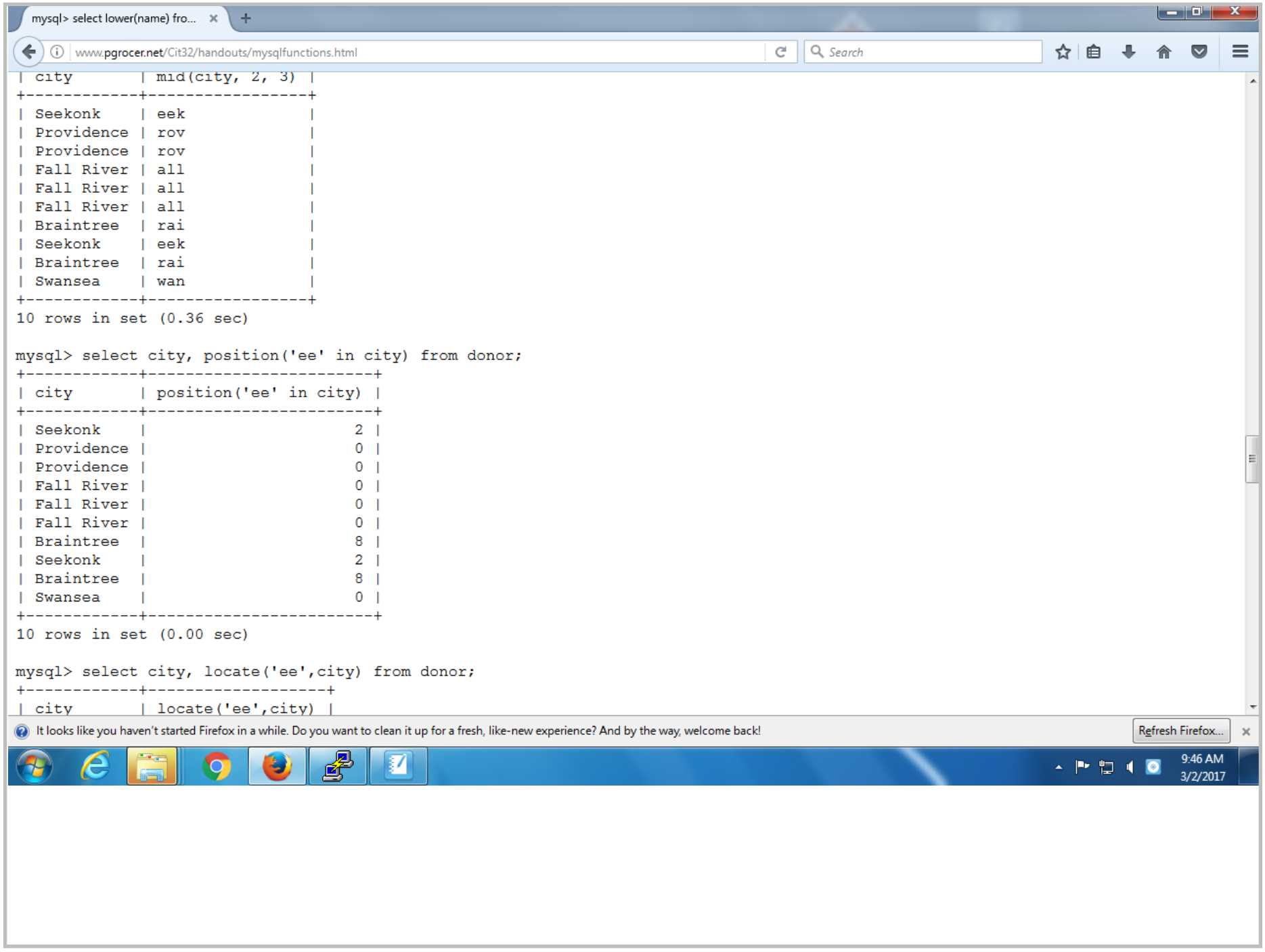

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
10 rows in set (0.00 sec)
mysql> select city, instr(city,'ee') from donor;
+------------+-------------------+
| city | instr(city,'ee') |
+------------+-------------------+
Seekonk	2
Providence	0
Providence	0
Fall River	0
Fall River	0
Fall River	0
Braintree	8
Seekonk	2
Braintree	8
Swansea	0
+------------+-------------------+
10 rows in set (0.00 sec)
mysql> select city, left(city,4) from donor;
+------------+--------------+
| city | left(city,4) |
+------------+--------------+
Seekonk	Seek
Providence	Prov
Providence	Prov
Fall River	Fall
Fall River	Fall
Fall River	Fall
Braintree	Brai
Seekonk	Seek
Braintree	Brai
Swansea	Swan
+------------+--------------+
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:40 AM
3/2/2017

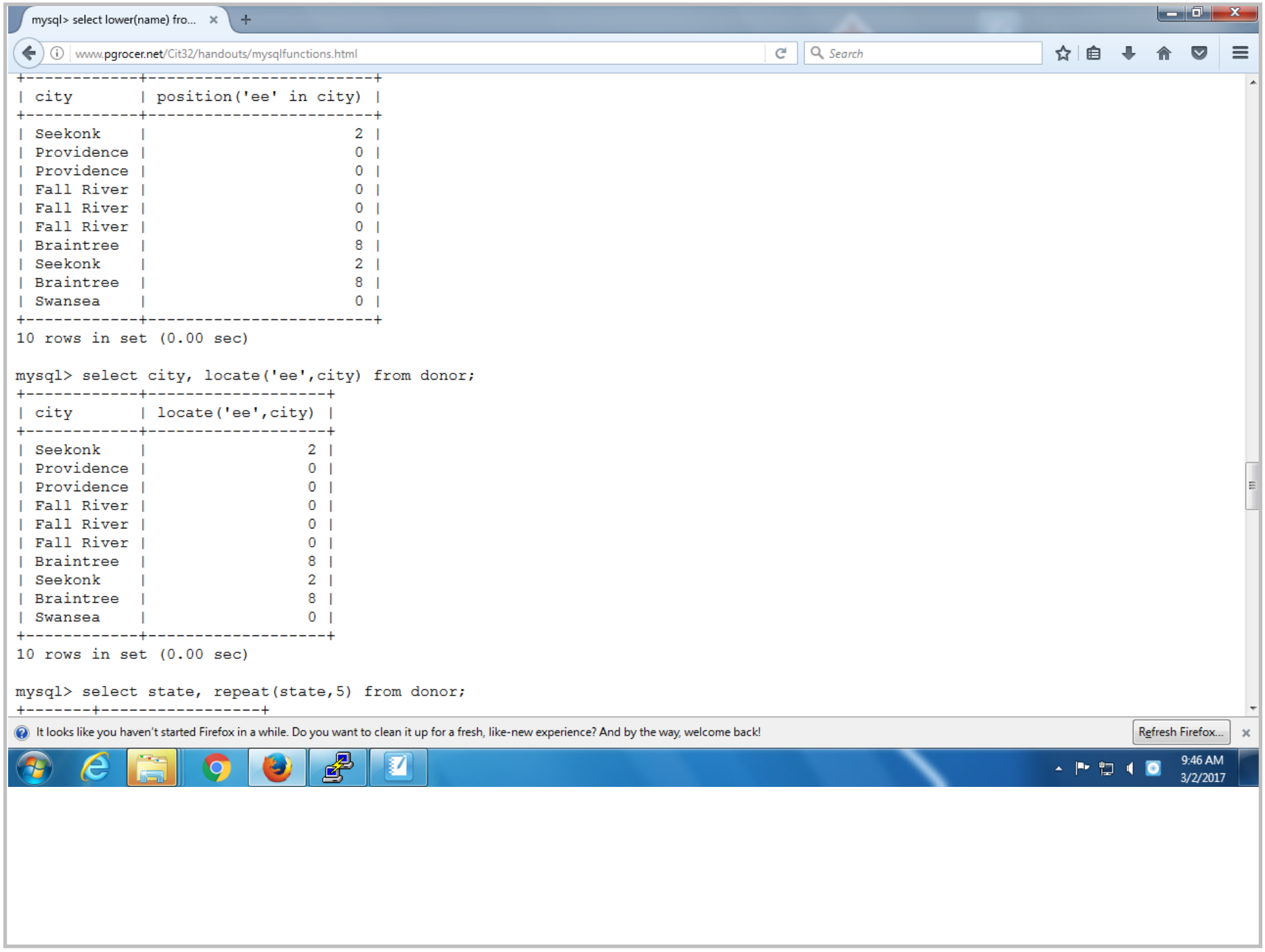

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
Providence	Prov
Fall River	Fall
Fall River	Fall
Fall River	Fall
Braintree	Brai
Seekonk	Seek
Braintree	Brai
Swansea	Swan
10 rows in set (0.31 sec)
mysql> select city, right(city,4) from donor;
city	right(city,4)
Seekonk	konk
Providence	ence
Providence	ence
Fall River	iver
Fall River	iver
Fall River	iver
Braintree	tree
Seekonk	konk
Braintree	tree
Swansea	nsea
10 rows in set (0.00 sec)
mysql> select city, length(city) from donor;
city	length(city)
Seekonk	7
Providence	10
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:41 AM
3/2/2017

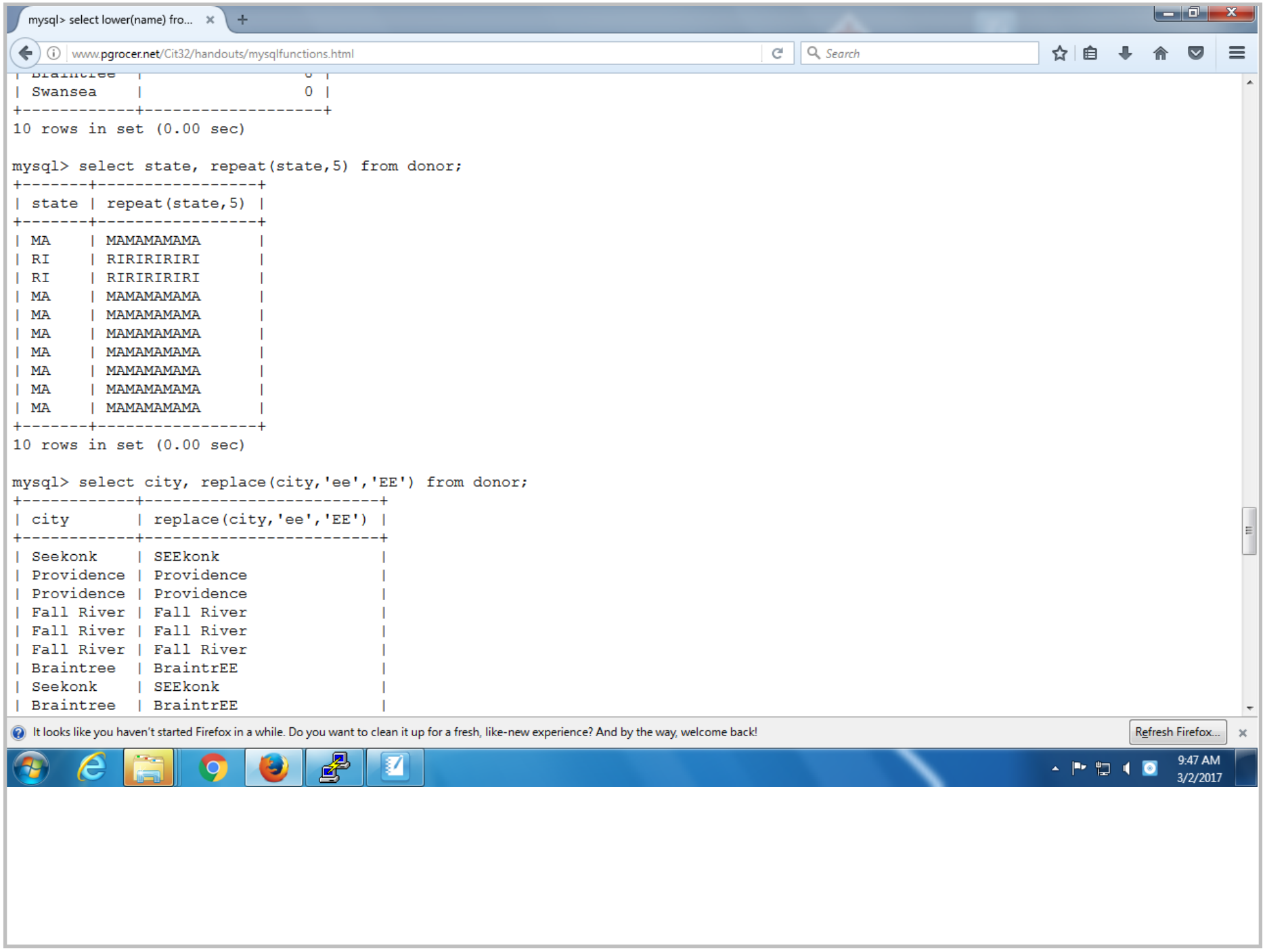

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
mysql> select city, length(city) from donor;
+------------+--------------+
| city | length(city) |
+------------+--------------+
Seekonk	7
Providence	10
Providence	10
Fall River	10
Fall River	10
Fall River	10
Braintree	9
Seekonk	7
Braintree	9
Swansea	7
+------------+--------------+
10 rows in set (0.00 sec)
mysql> select lpad(city,4,'**') from donor;
+-------------------+
| lpad(city,4,'**') |
+-------------------+
| Seek |
| Prov |
| Prov |
| Fall |
| Fall |
| Fall |
| Brai |
| Seek |
| Brai |
| Swan |
+-------------------+
10 rows in set (0.00 sec)
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:41 AM
3/2/2017

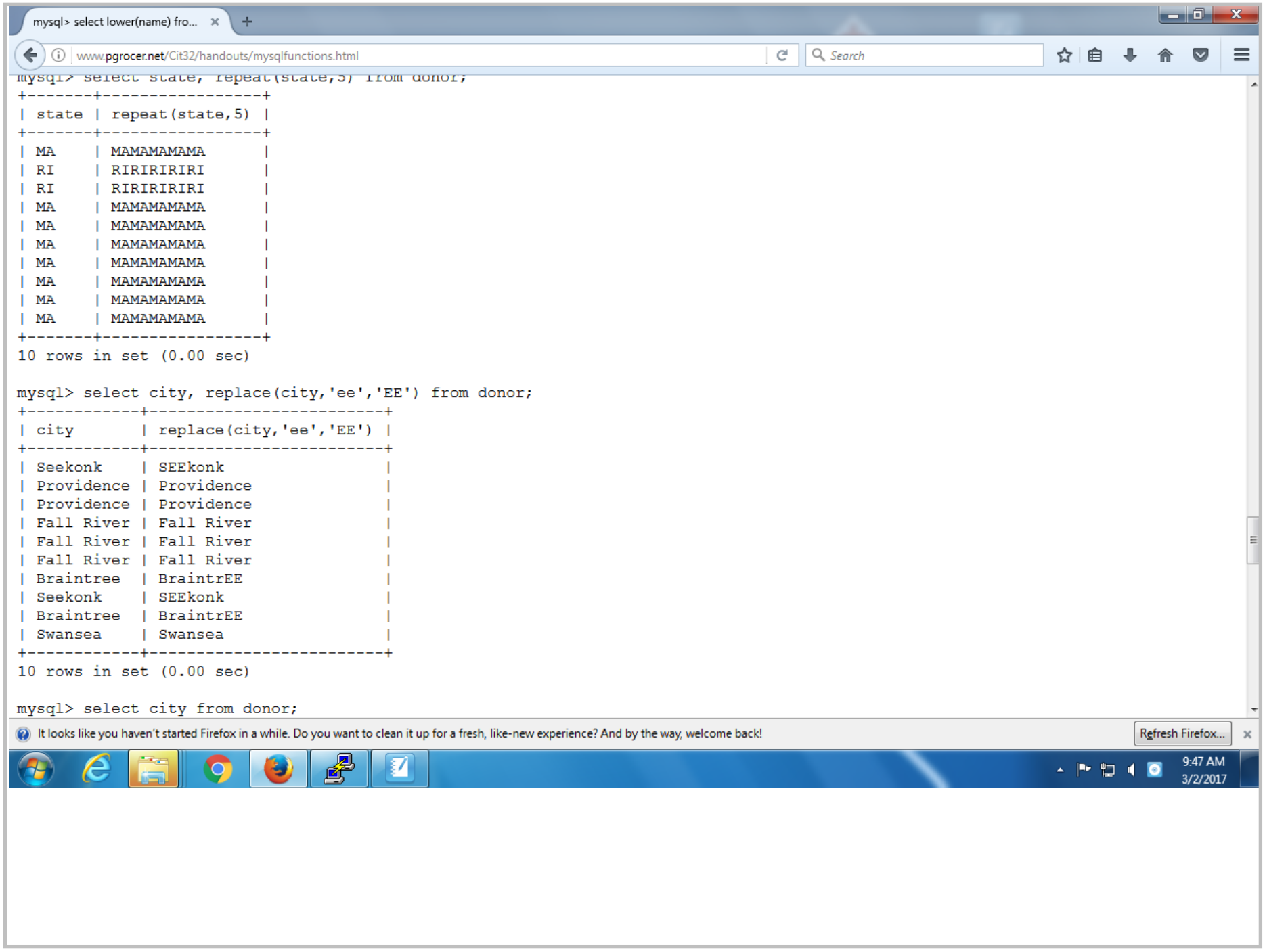

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
+-----------+--------------+
10 rows in set (0.00 sec)
mysql> select lpad(city,4,'**') from donor;
+--------------------+
| lpad(city,4,'**') |
+--------------------+
| Seek |
| Prov |
| Prov |
| Fall |
| Fall |
| Fall |
| Brai |
| Seek |
| Brai |
| Swan |
+--------------------+
10 rows in set (0.00 sec)
mysql> select lpad(city,20,'**') from donor;
+----------------------+
| lpad(city,20,'**') |
+----------------------+
| **********Seekonk |
| **********Providence |
| **********Providence |
| **********Fall River |
| **********Fall River |
| **********Fall River |
| ***********Braintree |
| ***********Seekonk |
| ***********Braintree |
| ***********Swansea |
+----------------------+
pgrocer@cisweb:~
18 rows in set (0.03 sec)
mysql> select lpad(city,10,'**') from donor;
+--------------------+
| lpad(city,10,'**') |
+--------------------+
| Fall River |
| ***Seekonk |
| Providence |
| *Braintree |
| Fall River |
| Fall River |
| Fall River |
| ****Boston |
| Providence |
| ***Seekonk |
| *Braintree |
| ****Warren |
| ***Seekonk |
| ***Seekonk |
| ***Swansea |
| *Braintree |
| ***Hanover |
| **Brooklyn |
+--------------------+
18 rows in set (0.00 sec)
mysql>
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:44 AM
3/2/2017

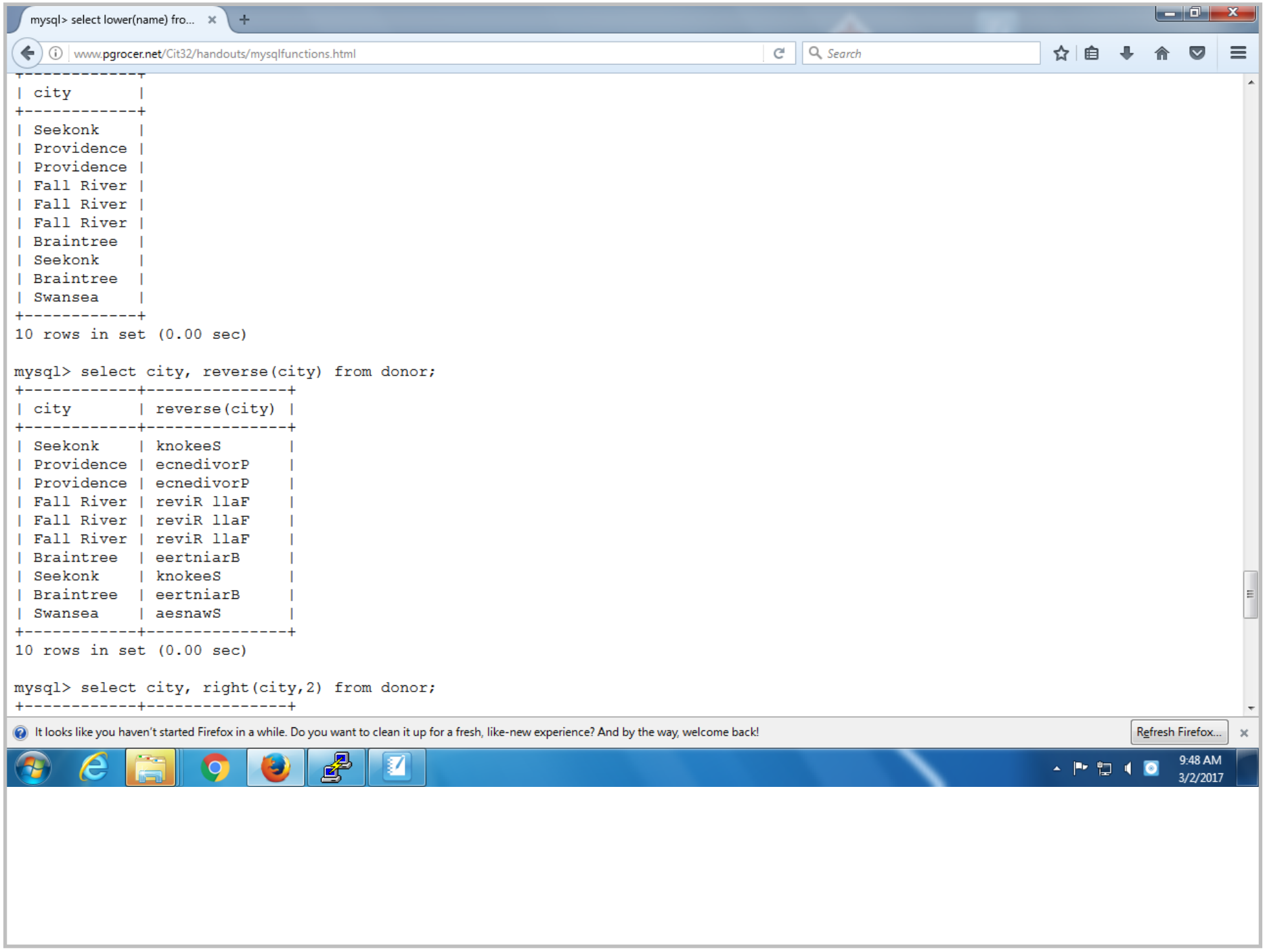

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
| **********Fall River |
| **********Fall River |
| ***********Braintree |
| ************Seekonk |
| ***********Braintree |
| ************Swansea |
+----------------------+
10 rows in set (0.00 sec)
Database changed
mysql> select ltrim('   mine');
+------------------+
| ltrim('   mine') |
+------------------+
| mine |
+------------------+
1 row in set (0.00 sec)
mysql> select city, mid(city, 2, 3) from donor;
+------------+-----------------+
| city | mid(city, 2, 3) |
+------------+-----------------+
Seekonk	eek
Providence	rov
Providence	rov
Fall River	all
Fall River	all
Fall River	all
Braintree	rai
Seekonk	eek
Braintree	rai
Swansea	wan
+------------+-----------------+
10 rows in set (0.36 sec)
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:45 AM
3/2/2017

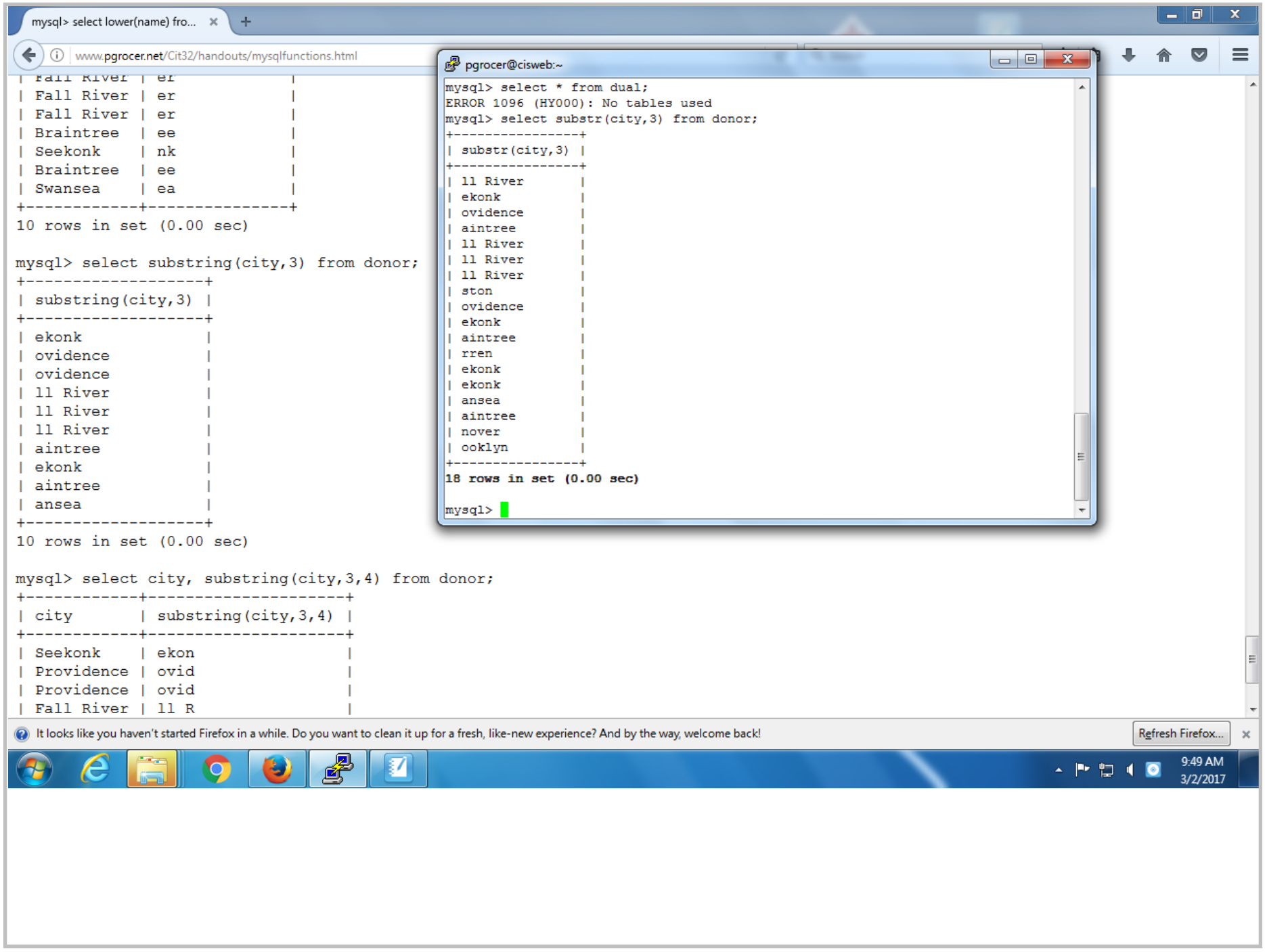

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
city	mid(city, 2, 3)
Seekonk	eek
Providence	rov
Providence	rov
Fall River	all
Fall River	all
Fall River	all
Braintree	rai
Seekonk	eek
Braintree	rai
Swansea	wan
10 rows in set (0.36 sec)
mysql> select city, position('ee' in city) from donor;
city	position('ee' in city)
Seekonk	2
Providence	0
Providence	0
Fall River	0
Fall River	0
Fall River	0
Braintree	8
Seekonk	2
Braintree	8
Swansea	0
10 rows in set (0.00 sec)
mysql> select city, locate('ee',city) from donor;
city	locate('ee',city)
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:46 AM
3/2/2017

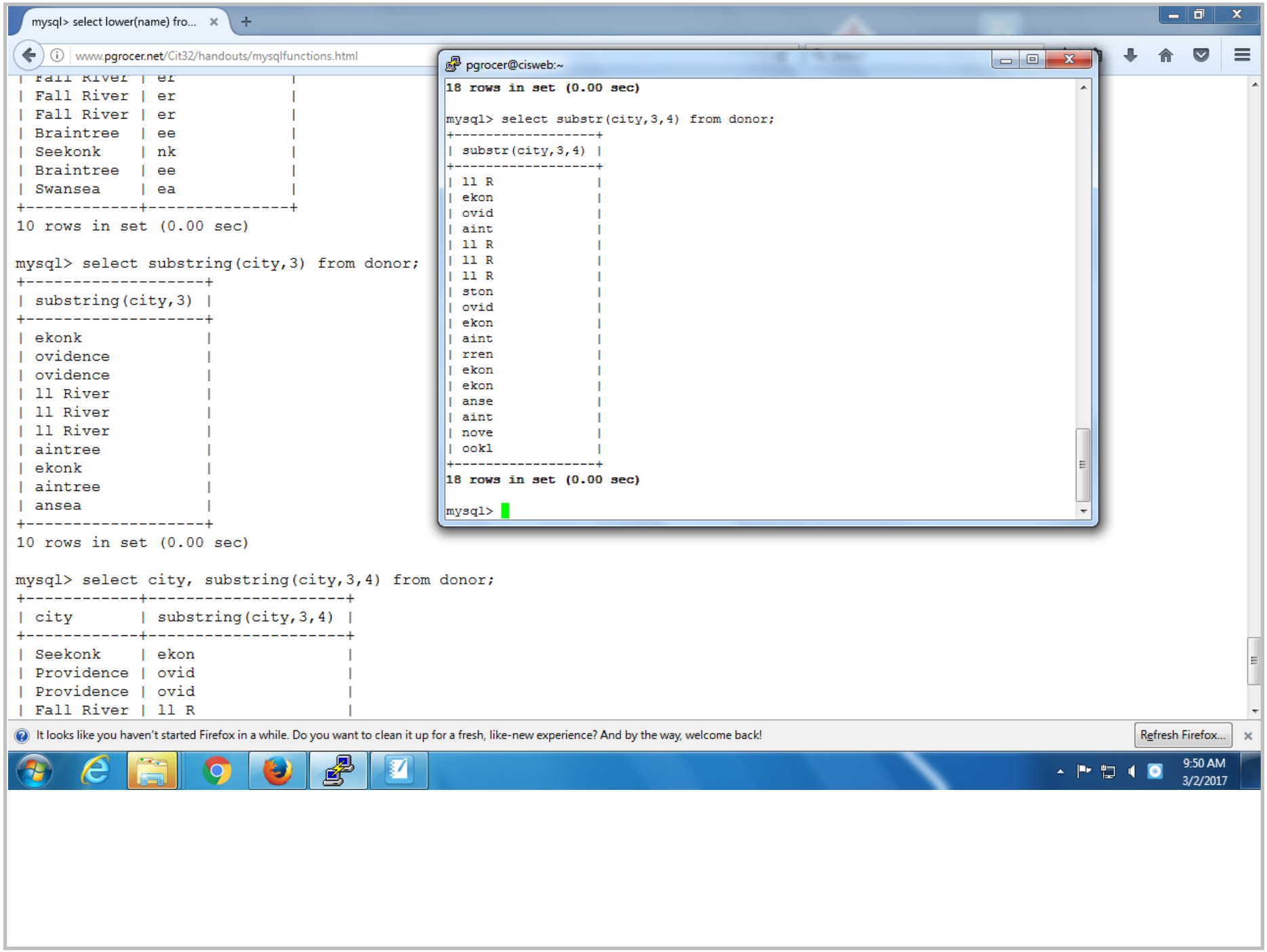

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
+------------+-------------------------+
| city | position('ee' in city) |
+------------+-------------------------+
Seekonk	2
Providence	0
Providence	0
Fall River	0
Fall River	0
Fall River	0
Braintree	8
Seekonk	2
Braintree	8
Swansea	0
+------------+-------------------------+
10 rows in set (0.00 sec)
mysql> select city, locate('ee',city) from donor;
+------------+--------------------+
| city | locate('ee',city) |
+------------+--------------------+
Seekonk	2
Providence	0
Providence	0
Fall River	0
Fall River	0
Fall River	0
Braintree	8
Seekonk	2
Braintree	8
Swansea	0
+------------+--------------------+
10 rows in set (0.00 sec)
mysql> select state, repeat(state,5) from donor;
+-------+-----------------+
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:46 AM
3/2/2017

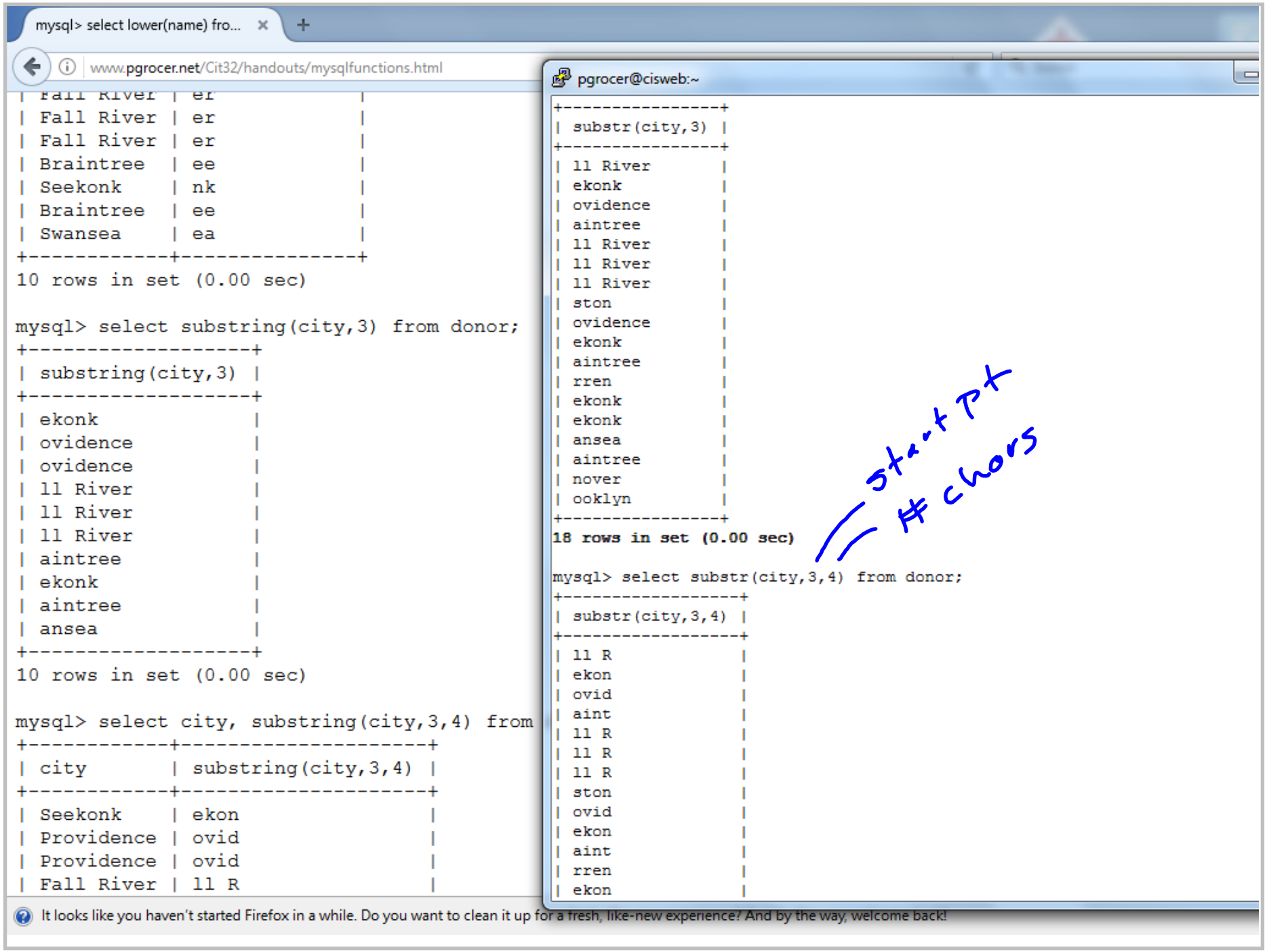

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
| Swansea | 0 |
10 rows in set (0.00 sec)
mysql> select state, repeat(state,5) from donor;
state	repeat(state,5)
MA	MAMAMAMAMA
RI	RIRIRIRIRI
RI	RIRIRIRIRI
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
10 rows in set (0.00 sec)
mysql> select city, replace(city,'ee','EE') from donor;
city	replace(city,'ee','EE')
Seekonk	SEEkonk
Providence	Providence
Providence	Providence
Fall River	Fall River
Fall River	Fall River
Fall River	Fall River
Braintree	BraintrEE
Seekonk	SEEkonk
Braintree	BraintrEE
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:47 AM
3/2/2017

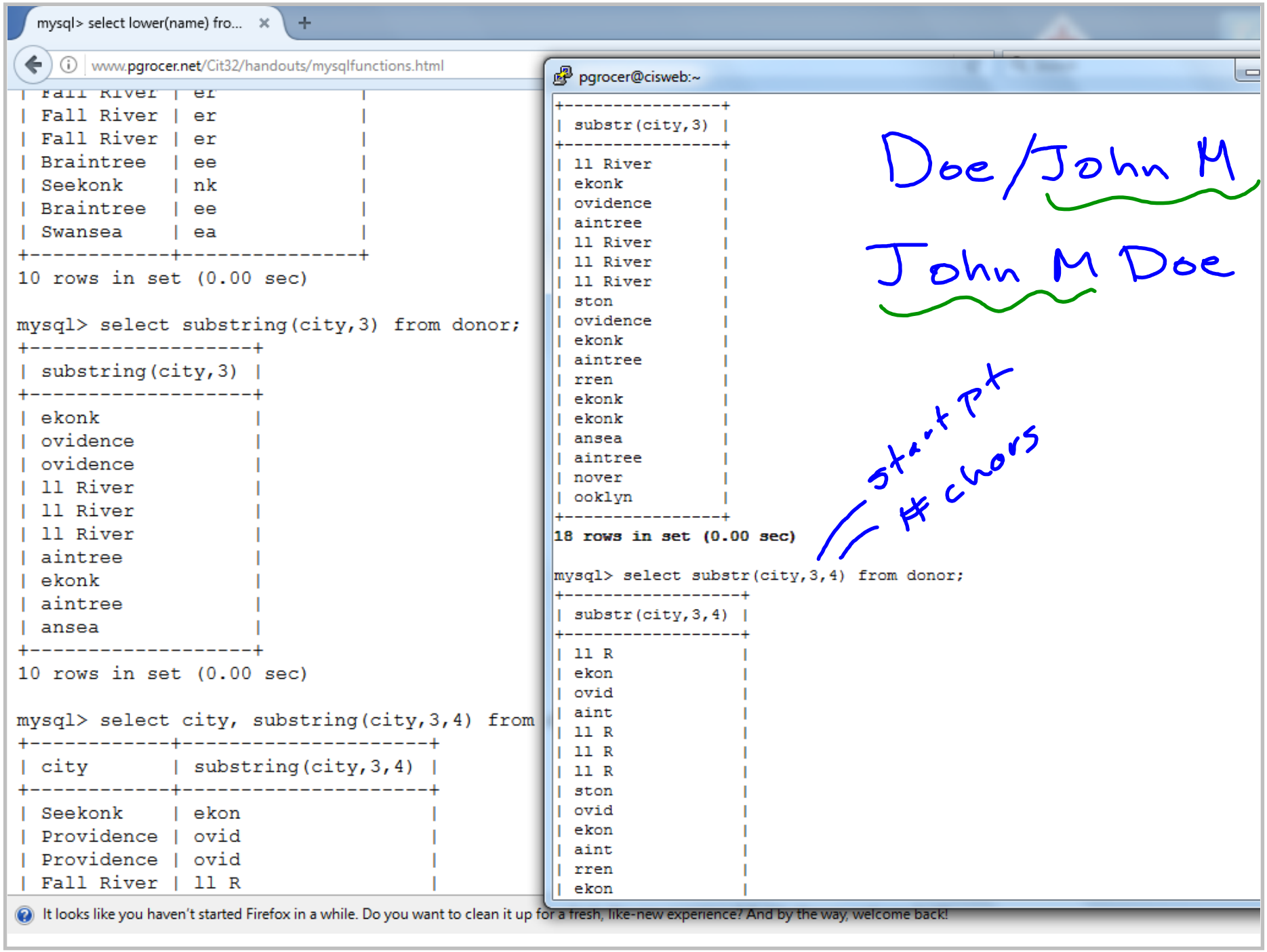

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
mysql> select state, repeat(state,5) from donor;
+-------+-----------------+
| state | repeat(state,5) |
+-------+-----------------+
MA	MAMAMAMAMA
RI	RIRIRIRIRI
RI	RIRIRIRIRI
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
MA	MAMAMAMAMA
+-------+-----------------+
10 rows in set (0.00 sec)
mysql> select city, replace(city,'ee','EE') from donor;
+------------+--------------------------+
| city | replace(city,'ee','EE') |
+------------+--------------------------+
Seekonk	SEEkonk
Providence	Providence
Providence	Providence
Fall River	Fall River
Fall River	Fall River
Fall River	Fall River
Braintree	BraintrEE
Seekonk	SEEkonk
Braintree	BraintrEE
Swansea	Swansea
+------------+--------------------------+
10 rows in set (0.00 sec)
mysql> select city from donor;
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:47 AM
3/2/2017

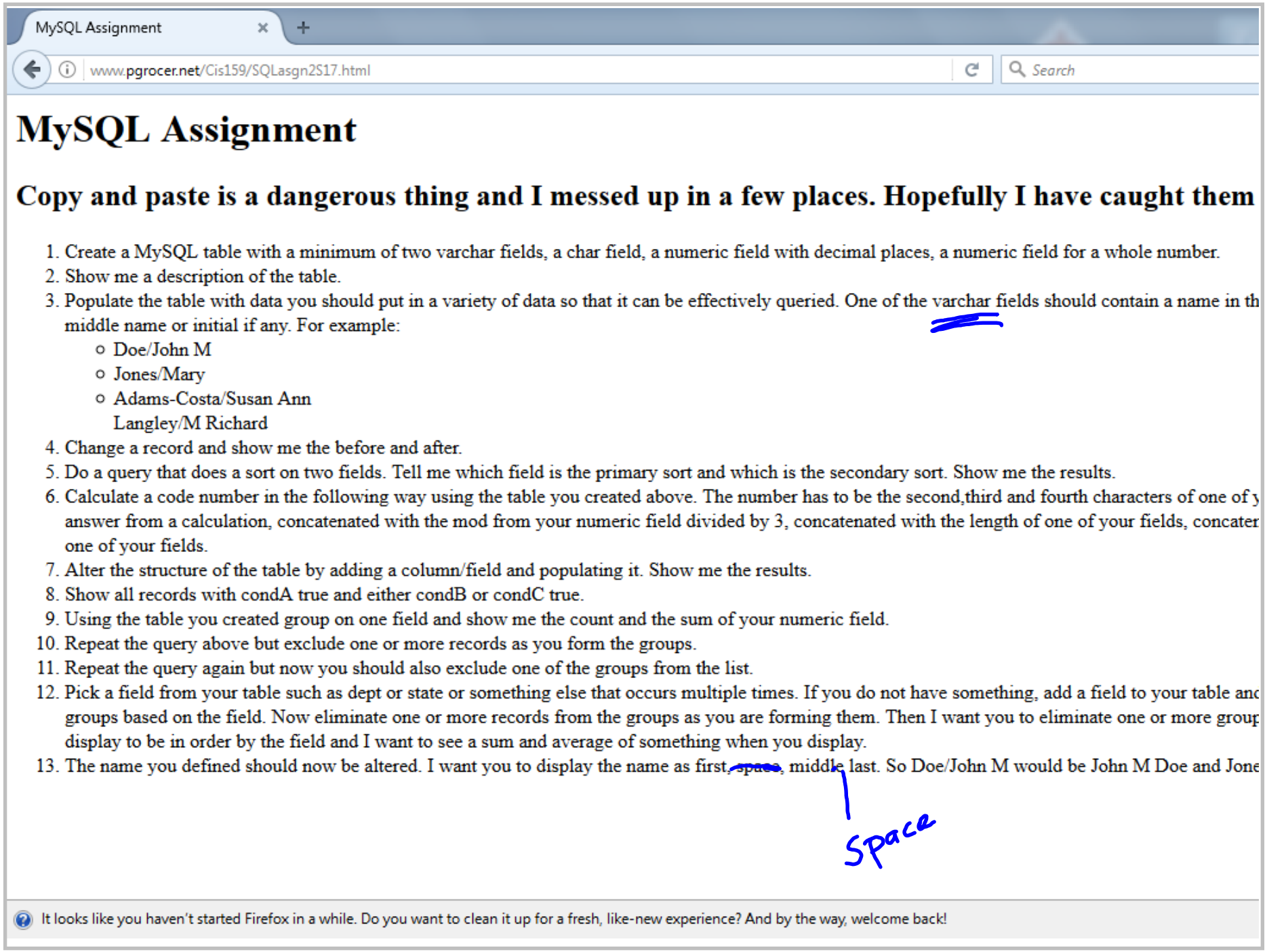

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Search
+------------+
| city |
+------------+
| Seekonk |
| Providence |
| Providence |
| Fall River |
| Fall River |
| Fall River |
| Braintree |
| Seekonk |
| Braintree |
| Swansea |
+------------+
10 rows in set (0.00 sec)
mysql> select city, reverse(city) from donor;
+------------+---------------+
| city | reverse(city) |
+------------+---------------+
Seekonk	knokeeS
Providence	ecnedivorP
Providence	ecnedivorP
Fall River	reviR llaF
Fall River	reviR llaF
Fall River	reviR llaF
Braintree	eertniarB
Seekonk	knokeeS
Braintree	eertniarB
Swansea	aesnawS
+------------+---------------+
10 rows in set (0.00 sec)
mysql> select city, right(city,2) from donor;
+------------+---------------+
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:48 AM
3/2/2017

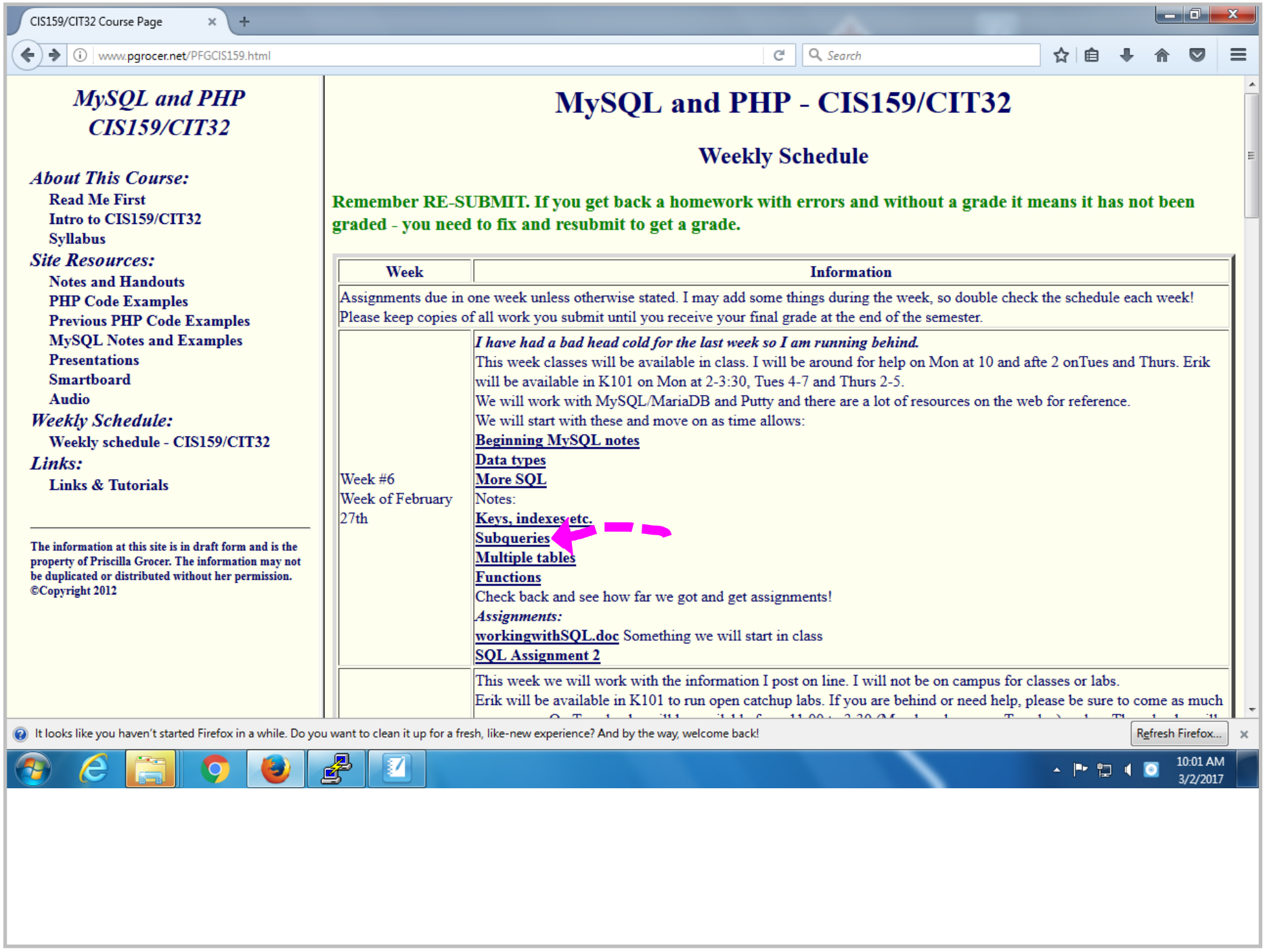

mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Fall River	er
Fall River	er
Fall River	er
Braintree	ee
Seekonk	nk
Braintree	ee
Swansea	ea
10 rows in set (0.00 sec)
mysql> select substring(city,3) from donor;
substring(city,3)
ekonk
ovidence
ovidence
ll River
ll River
ll River
aintree
ekonk
aintree
ansea
10 rows in set (0.00 sec)
mysql> select city, substring(city,3,4) from donor;
city	substring(city,3,4)
Seekonk	ekon
Providence	ovid
Providence	ovid
Fall River	ll R
pgrocer@cisweb:~
mysql> select * from dual;
ERROR 1096 (HY000): No tables used
mysql> select substr(city,3) from donor;
substr(city,3)
ll River
ekonk
ovidence
aintree
ll River
ll River
ll River
ston
ovidence
ekonk
aintree
rren
ekonk
ekonk
ansea
aintree
nover
ooklyn
18 rows in set (0.00 sec)
mysql>
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:49 AM
3/2/2017


mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Fall River	er
Fall River	er
Fall River	er
Braintree	ee
Seekonk	nk
Braintree	ee
Swansea	ea
10 rows in set (0.00 sec)
mysql> select substring(city,3) from donor;
substring(city,3)
ekonk
ovidence
ovidence
ll River
ll River
ll River
aintree
ekonk
aintree
ansea
10 rows in set (0.00 sec)
mysql> select city, substring(city,3,4) from donor;
city	substring(city,3,4)
Seekonk	ekon
Providence	ovid
Providence	ovid
Fall River	ll R
pgrocer@cisweb:~
18 rows in set (0.00 sec)
mysql> select substr(city,3,4) from donor;
substr(city,3,4)
ll R
ekon
ovid
aint
ll R
ll R
ll R
ston
ovid
ekon
aint
rren
ekon
ekon
anse
aint
nove
ookl
18 rows in set (0.00 sec)
mysql>
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
9:50 AM
3/2/2017


mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Fall River	er
Fall River	er
Fall River	er
Braintree	ee
Seekonk	nk
Braintree	ee
Swansea	ea
10 rows in set (0.00 sec)
mysql> select substring(city,3) from donor;
substring(city,3)
ekonk
ovidence
ovidence
ll River
ll River
ll River
aintree
ekonk
aintree
ansea
10 rows in set (0.00 sec)
mysql> select city, substring(city,3,4) from
city	substring(city,3,4)
Seekonk	ekon
Providence	ovid
Providence	ovid
Fall River	ll R
pgrocer@cisweb:~
substr(city,3)
ll River
ekonk
ovidence
aintree
ll River
ll River
ll River
ston
ovidence
ekonk
aintree
rren
ekonk
ekonk
ansea
aintree
nover
ooklyn
18 rows in set (0.00 sec)
start pt
# chars
mysql> select substr(city,3,4) from donor;
| substr(city,3,4) |
| ll R |
| ekon |
| ovid |
| aint |
| ll R |
| ll R |
| ll R |
| ston |
| ovid |
| ekon |
| aint |
| rren |
| ekon |
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!


mysql> select lower(name) fro...
www.pgrocer.net/Cit32/handouts/mysqlfunctions.html
Fall River	er
Fall River	er
Braintree	ee
Seekonk	nk
Braintree	ee
Swansea	ea
10 rows in set (0.00 sec)
mysql> select substring(city,3) from donor;
substring(city,3)
ekonk
ovidence
ovidence
ll River
ll River
ll River
aintree
ekonk
aintree
ansea
10 rows in set (0.00 sec)
mysql> select city, substring(city,3,4) from
city	substring(city,3,4)
Seekonk	ekon
Providence	ovid
Providence	ovid
Fall River	ll R
pgrocer@cisweb:~
substr(city,3)
ll River
ekonk
ovidence
aintree
ll River
ll River
ll River
ston
ovidence
ekonk
aintree
rren
ekonk
ekonk
ansea
aintree
nover
ooklyn
18 rows in set (0.00 sec)
mysql> select substr(city,3,4) from donor;
substr(city,3,4)
ll R
ekon
ovid
aint
ll R
ll R
ll R
ston
ovid
ekon
aint
rren
ekon
Doe/John M
John M Doe
start pt
chars
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!


MySQL Assignment
www.pgrocer.net/Cis159/SQLasgn2S17.html
Search
MySQL Assignment
Copy and paste is a dangerous thing and I messed up in a few places. Hopefully I have caught them
1. Create a MySQL table with a minimum of two varchar fields, a char field, a numeric field with decimal places, a numeric field for a whole number.
2. Show me a description of the table.
3. Populate the table with data you should put in a variety of data so that it can be effectively queried. One of the varchar fields should contain a name in th middle name or initial if any. For example:
   - Doe/John M
   - Jones/Mary
   - Adams-Costa/Susan Ann
   Langley/M Richard
4. Change a record and show me the before and after.
5. Do a query that does a sort on two fields. Tell me which field is the primary sort and which is the secondary sort. Show me the results.
6. Calculate a code number in the following way using the table you created above. The number has to be the second,third and fourth characters of one of y answer from a calculation, concatenated with the mod from your numeric field divided by 3, concatenated with the length of one of your fields, concater one of your fields.
7. Alter the structure of the table by adding a column/field and populating it. Show me the results.
8. Show all records with condA true and either condB or condC true.
9. Using the table you created group on one field and show me the count and the sum of your numeric field.
10. Repeat the query above but exclude one or more records as you form the groups.
11. Repeat the query again but now you should also exclude one of the groups from the list.
12. Pick a field from your table such as dept or state or something else that occurs multiple times. If you do not have something, add a field to your table anc groups based on the field. Now eliminate one or more records from the groups as you are forming them. Then I want you to eliminate one or more group display to be in order by the field and I want to see a sum and average of something when you display.
13. The name you defined should now be altered. I want you to display the name as first, space, middle last. So Doe/John M would be John M Doe and Jone
Space
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!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MySQL and PHP - CIS159/CIT32
Weekly Schedule
Remember RE-SUBMIT. If you get back a homework with errors and without a grade it means it has not been graded - you need to fix and resubmit to get a grade.
Week
Information
Assignments due in one week unless otherwise stated. I may add some things during the week, so double check the schedule each week!
Please keep copies of all work you submit until you receive your final grade at the end of the semester.
Week #6
Week of February 27th
I have had a bad head cold for the last week so I am running behind.
This week classes will be available in class. I will be around for help on Mon at 10 and afte 2 onTues and Thurs. Erik will be available in K101 on Mon at 2-3:30, Tues 4-7 and Thurs 2-5.
We will work with MySQL/MariaDB and Putty and there are a lot of resources on the web for reference.
We will start with these and move on as time allows:
Beginning MySQL notes
Data types
More SQL
Notes:
Keys, indexes etc.
Subqueries
Multiple tables
Functions
Check back and see how far we got and get assignments!
Assignments:
workingwithSQL.doc Something we will start in class
SQL Assignment 2
This week we will work with the information I post on line. I will not be on campus for classes or labs.
Erik will be available in K101 to run open catchup labs. If you are behind or need help, please be sure to come as much
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
10:01 AM
3/2/2017

File Tools View subqueries (Protected View) - Word

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

Subqueries in MySQL:

A simple subquery using two tables: In this example I want all the donations for Animal Home. Let's say, I do not know the driveno for Animal Home. I can do a inner select to get the driveno and then do the outer select to get all the donations with that driveno. Below the example, I will do the selects individually.

```
mysql> select * from donation where driveno in
    -> (select driveno from drive where drivename = 'Animal Home');
+-------+---------+------------+---------+
| idno  | driveno | condate    | contamt |
+-------+---------+------------+---------+
| 12121 | 200     | 2005-12-30 |   40.00 |
| 23456 | 200     | 2005-12-29 |  100.00 |
+-------+---------+------------+---------+
2 rows in set (0.00 sec)

mysql> select * from donation;
+-------+---------+------------+---------+
| idno  | driveno | condate    | contamt |
+-------+---------+------------+---------+
| 11111 | 100     | 2005-12-28 |   25.00 |
| 12121 | 200     | 2005-12-30 |   40.00 |
| 23456 | 100     | 2005-11-20 |   20.00 |
| 33333 | 300     | 2005-11-30 |   10.00 |
| 12121 | 300     | 2005-12-31 |   50.00 |
| 23456 | 200     | 2005-12-29 |  100.00 |
+-------+---------+------------+---------+
6 rows in set (0.00 sec)

mysql> select * from drive;
+---------+-------------+-------------+----------+----------+
| driveno | drivename   | drivechair  | lastyear | thisyear |
+---------+-------------+-------------+----------+----------+
| 100     | Kids Shelter | Ann Smith  | 10000.00 |     0.00 |
| 200     | Animal Home  | Linda Grant |  5000.00 |     0.00 |
| 300     | Health Aid   | David Ross  |  7000.00 |     0.00 |
+---------+-------------+-------------+----------+----------+
```

200

200

executed first

Page 1 of 9

File Tools View subqueries (Protected View) - Word

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Subqueries in MySQL:

A simple subquery using two tables: In this example I want all the donations for Animal Home. Let's say, I do not know the driveno for Animal Home. I can do a inner select to get the driveno and then do the outer select to get all the donations with that driveno. Below the example, I will do the selects individually.

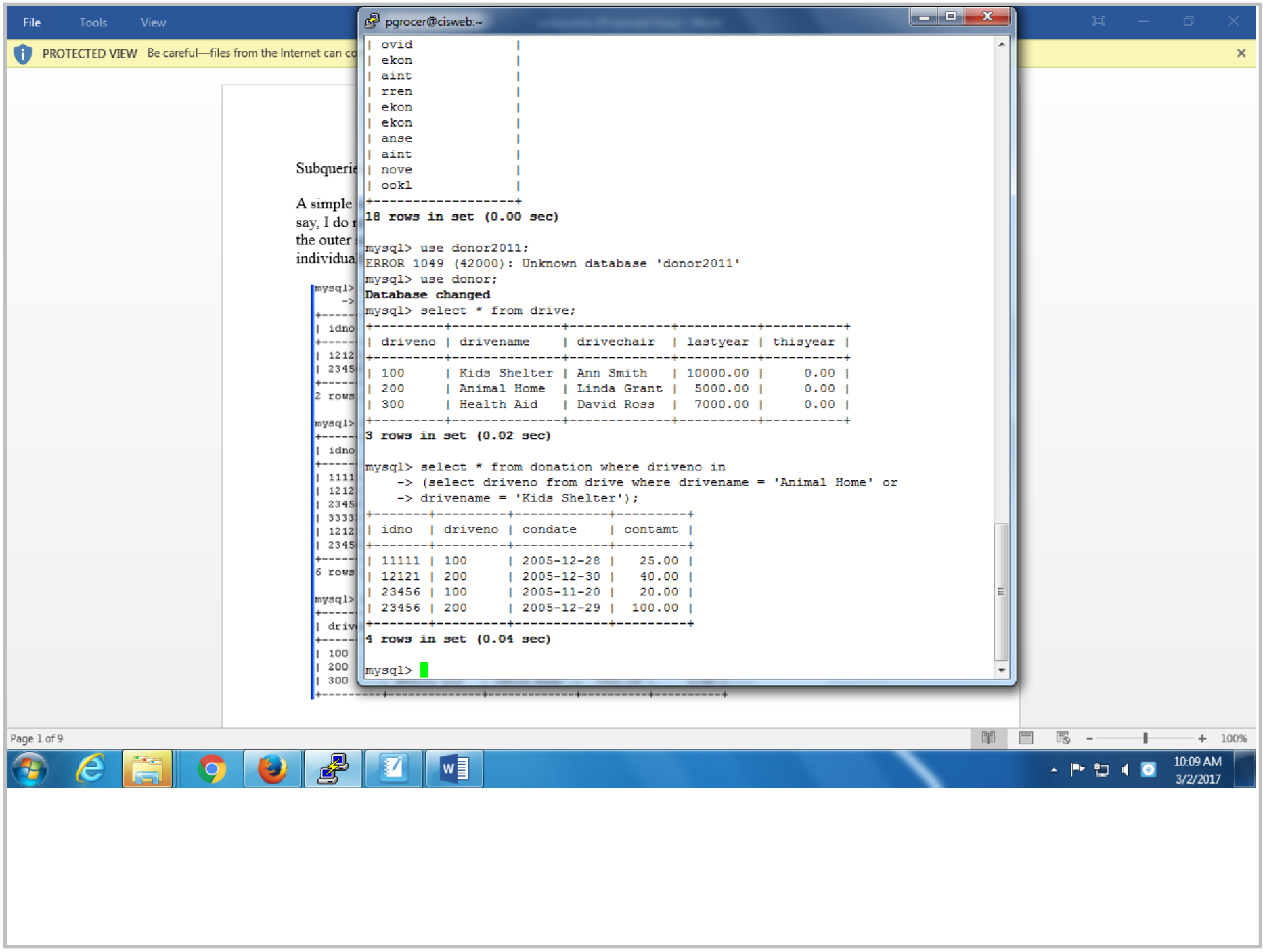
```
mysql> select * from donation where driveno in
    -> (select driveno from drive where drivename = 'Animal Home');
+-------+---------+------------+---------+
| idno  | driveno | condate    | contamt |
+-------+---------+------------+---------+
| 12121 | 200     | 2005-12-30 |   40.00 |
| 23456 | 200     | 2005-12-29 |  100.00 |
+-------+---------+------------+---------+
2 rows in set (0.00 sec)

mysql> select * from donation;
+-------+---------+------------+---------+
| idno  | driveno | condate    | contamt |
+-------+---------+------------+---------+
| 11111 | 100     | 2005-12-28 |   25.00 |
| 12121 | 200     | 2005-12-30 |   40.00 |
| 23456 | 100     | 2005-11-20 |   20.00 |
| 33333 | 300     | 2005-11-30 |   10.00 |
| 12121 | 300     | 2005-12-31 |   50.00 |
| 23456 | 200     | 2005-12-29 |  100.00 |
+-------+---------+------------+---------+
6 rows in set (0.00 sec)

mysql> select * from drive;
+---------+-------------+-------------+----------+----------+
| driveno | drivename   | drivechair  | lastyear | thisyear |
+---------+-------------+-------------+----------+----------+
| 100     | Kids Shelter | Ann Smith   | 10000.00 |     0.00 |
| 200     | Animal Home | Linda Grant |  5000.00 |     0.00 |
| 300     | Health Aid  | David Ross  |  7000.00 |     0.00 |
+---------+-------------+-------------+----------+----------+
```

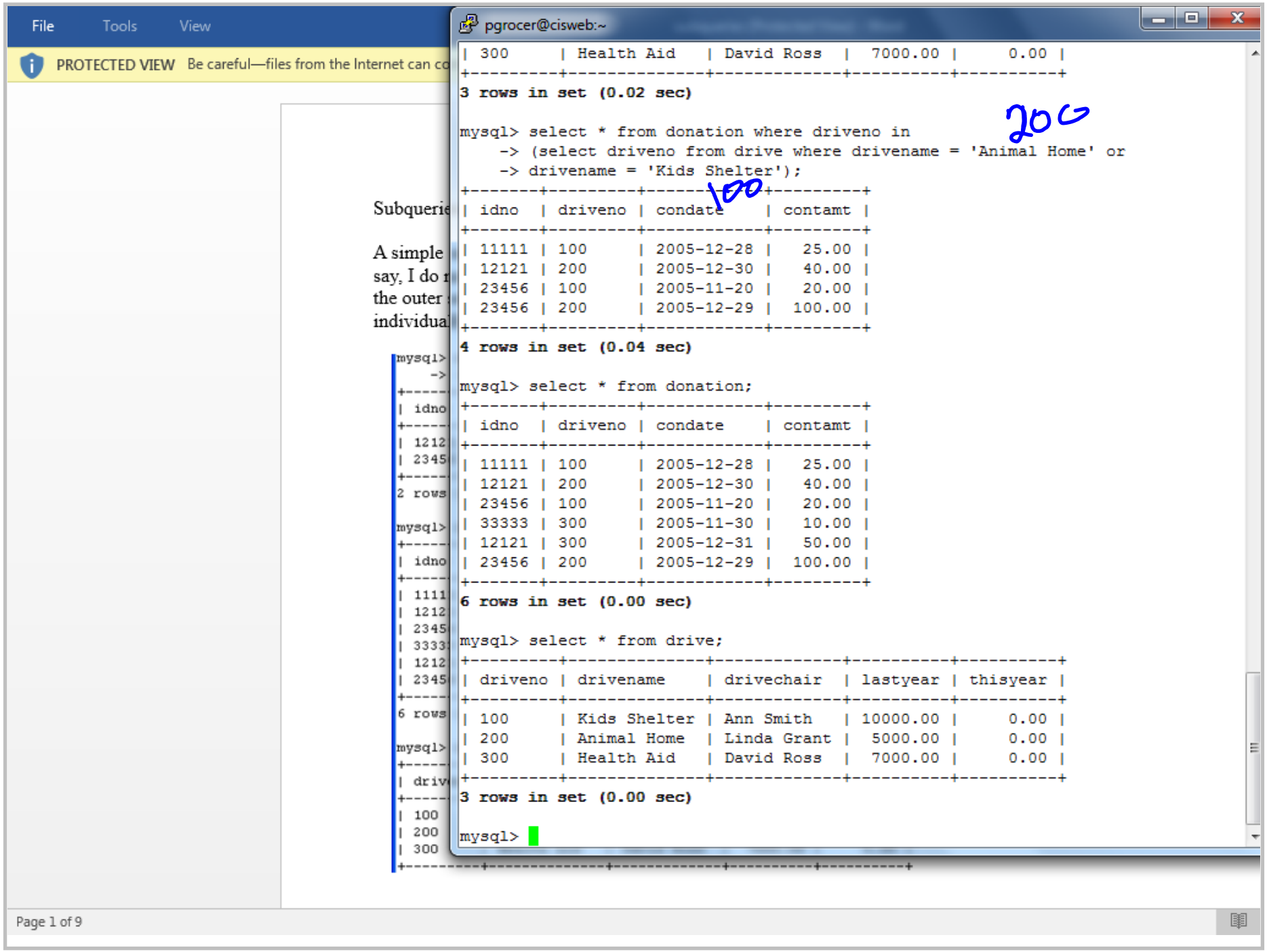
100 200

100 200

or drivename = Kids Shelter

Page 1 of 9


File
Tools
View
PROTECTED VIEW
Be careful—files from the Internet can co
pgrocer@cisweb:~
| ovid |
| ekon |
| aint |
| rren |
| ekon |
| ekon |
| anse |
| aint |
| nove |
| ookl |
18 rows in set (0.00 sec)
mysql> use donor2011;
ERROR 1049 (42000): Unknown database 'donor2011'
mysql> use donor;
Database changed
mysql> select * from drive;
driveno	drivename	drivechair	lastyear	thisyear
100	Kids Shelter	Ann Smith	10000.00	0.00
200	Animal Home	Linda Grant	5000.00	0.00
300	Health Aid	David Ross	7000.00	0.00
3 rows in set (0.02 sec)
mysql> select * from donation where driveno in
-> (select driveno from drive where drivename = 'Animal Home' or
-> drivename = 'Kids Shelter');
idno	driveno	condate	contamt
11111	100	2005-12-28	25.00
12121	200	2005-12-30	40.00
23456	100	2005-11-20	20.00
23456	200	2005-12-29	100.00
4 rows in set (0.04 sec)
mysql>
Page 1 of 9
100%
10:09 AM
3/2/2017


File
Tools
View
PROTECTED VIEW
Be careful—files from the Internet can co
pgrocer@cisweb:~
| 300 | Health Aid | David Ross | 7000.00 | 0.00 |
3 rows in set (0.02 sec)
mysql> select * from donation where driveno in
-> (select driveno from drive where drivename = 'Animal Home' or
-> drivename = 'Kids Shelter');
idno	driveno	condate	contamt
11111	100	2005-12-28	25.00
12121	200	2005-12-30	40.00
23456	100	2005-11-20	20.00
23456	200	2005-12-29	100.00
4 rows in set (0.04 sec)
mysql> select * from donation;
idno	driveno	condate	contamt
11111	100	2005-12-28	25.00
12121	200	2005-12-30	40.00
23456	100	2005-11-20	20.00
33333	300	2005-11-30	10.00
12121	300	2005-12-31	50.00
23456	200	2005-12-29	100.00
6 rows in set (0.00 sec)
mysql> select * from drive;
driveno	drivename	drivechair	lastyear	thisyear
100	Kids Shelter	Ann Smith	10000.00	0.00
200	Animal Home	Linda Grant	5000.00	0.00
300	Health Aid	David Ross	7000.00	0.00
3 rows in set (0.00 sec)
mysql>
Page 1 of 9

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```
pgrocer@cisweb:~
mysql> select idno, name, yrgoal, contact
    -> from donor
    -> where yrgoal >
    -> (select yrgoal
    -> from donor
    -> where name like '%Ash');
```

50

idno	name	yrgoal	contact
11111	Stephen Daniels	500.00	
12121	Jennifer Ames	400.00	Susan Jones
33333	Nancy Taylor	150.00	John Adams
34567	Robert Brooks	250.00	Amy Costa
44444	Al Richards	300.00	John Smith
55555	Sarah Grove	300.00	John Smith
88888	Dick Stretton	1000.00	John Adams
72901	Mary Jones	5000.00	Amy Costa
72727	Arthur Lyman	300.00	Amy Costa
45678	Susan Smith	200.00	Amy Costa

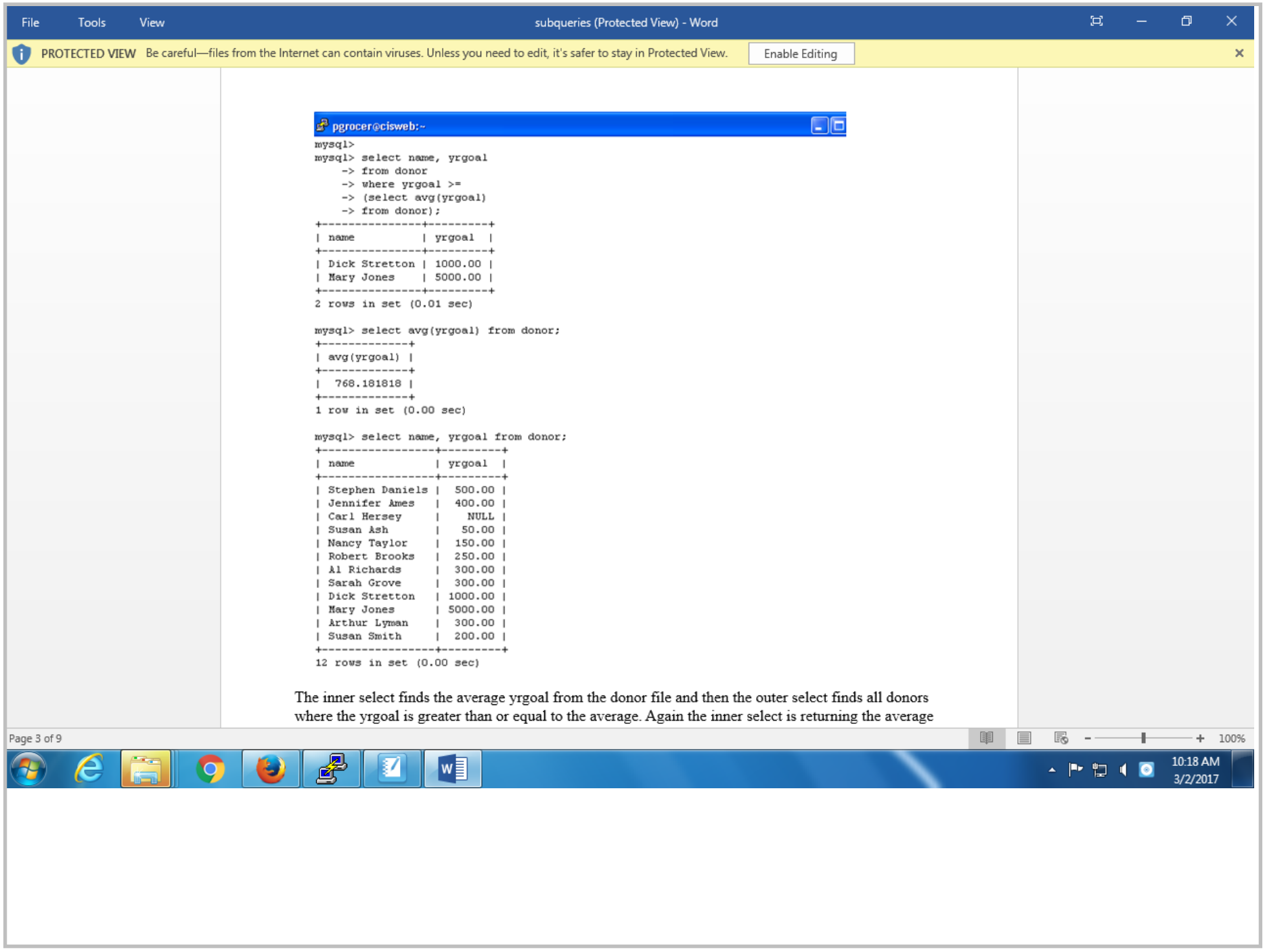
10 rows in set (0.03 sec)

```
mysql> select yrgoal from donor where name like '%Ash';
```

yrgoal
50.00

1 row in set (0.00 sec)

I want to find out what the year goal is for someone with the last name of Ash. Once I find that out, I want to display everyone that has a year goal greater than the year goal of Ash. Notice the structure: the inner select is retrieving a yrgoal and the outer select is testing against yrgoal.


File
Tools
View
subqueries (Protected View) - Word
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
pgrocer@cisweb:~
mysql>
mysql> select name, yrgoal
-> from donor
-> where yrgoal >=
-> (select avg(yrgoal)
-> from donor);
+---------------+---------+
| name | yrgoal |
+---------------+---------+
| Dick Stretton | 1000.00 |
| Mary Jones | 5000.00 |
+---------------+---------+
2 rows in set (0.01 sec)
mysql> select avg(yrgoal) from donor;
+-------------+
| avg(yrgoal) |
+-------------+
| 768.181818 |
+-------------+
1 row in set (0.00 sec)
mysql> select name, yrgoal from donor;
+-----------------+---------+
| name | yrgoal |
+-----------------+---------+
Stephen Daniels	500.00
Jennifer Ames	400.00
Carl Hersey	NULL
Susan Ash	50.00
Nancy Taylor	150.00
Robert Brooks	250.00
Al Richards	300.00
Sarah Grove	300.00
Dick Stretton	1000.00
Mary Jones	5000.00
Arthur Lyman	300.00
Susan Smith	200.00
+-----------------+---------+
12 rows in set (0.00 sec)
The inner select finds the average yrgoal from the donor file and then the outer select finds all donors where the yrgoal is greater than or equal to the average. Again the inner select is returning the average
Page 3 of 9
100%
10:18 AM
3/2/2017

File Tools View subqueries (Protected View) - Word

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pgrocer@cisweb:~

```
mysql> select name, yrgoal
    -> from donor
    -> where idno in
    -> (select idno
    -> from donation
    -> where contamt > 20);
+-----------------+---------+
| name            | yrgoal |
+-----------------+---------+
| Stephen Daniels | 500.00 |
| Jennifer Ames   | 400.00 |
| Susan Ash       |  50.00 |
+-----------------+---------+
3 rows in set (0.00 sec)

mysql> select idno, name, yrgoal from donor;
+-------+-----------------+---------+
| idno  | name            | yrgoal  |
+-------+-----------------+---------+
| 11111 | Stephen Daniels |  500.00 |
| 12121 | Jennifer Ames   |  400.00 |
| 22222 | Carl Hersey     |    NULL |
| 23456 | Susan Ash       |   50.00 |
| 33333 | Nancy Taylor    |  150.00 |
| 34567 | Robert Brooks   |  250.00 |
| 44444 | Al Richards     |  300.00 |
| 55555 | Sarah Grove     |  300.00 |
| 88888 | Dick Stretton   | 1000.00 |
| 72901 | Mary Jones      | 5000.00 |
| 72727 | Arthur Lyman    |  300.00 |
| 45678 | Susan Smith     |  200.00 |
+-------+-----------------+---------+
12 rows in set (0.00 sec)

mysql> select idno from donation where contamt > 20;
+-------+
| idno  |
+-------+
| 11111 |
| 12121 |
| 12121 |
| 23456 |
+-------+
4 rows in set (0.00 sec)
```

Page 4 of 9

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

```
mysql> select state, contact, sum(yrgoal)
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) >
    -> (select avg(yrgoal)
    -> from donor);
+-------+-----------+-------------+
| state | contact   | sum(yrgoal) |
+-------+-----------+-------------+
| MA    | Amy Costa |      800.00 |
| MA    | John Adams |     1150.00 |
| RI    | Amy Costa |     5000.00 |
+-------+-----------+-------------+
3 rows in set (0.00 sec)

mysql> select avg(yrgoal) from donor;
+-------------+
| avg(yrgoal) |
+-------------+
|  768.181818 |
+-------------+
1 row in set (0.00 sec)

mysql> select state, contact, sum(yrgoal)
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) > 768.181818;
+-------+-----------+-------------+
| state | contact   | sum(yrgoal) |
+-------+-----------+-------------+
| MA    | Amy Costa |      800.00 |
| MA    | John Adams |     1150.00 |
| RI    | Amy Costa |     5000.00 |
+-------+-----------+-------------+
3 rows in set (0.00 sec)
```

Where eliminates records as the group is being formed

having eliminates groups (after formed)

I am only using the donor table. In the inner select I am finding the average of yrgoal and then in the outer select I am showing the groups by state and contact within state where the sum of the yrgoal is greater than the average yrgoal.

File Tools View subqueries (Protected View) - Word

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

```
mysql> select state, contact, sum(yrgoal)
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) >
    -> (select avg(yrgoal)
    -> from donor);
+-------+-----------+-------------+
| state | contact   | sum(yrgoal) |
+-------+-----------+-------------+
| MA    | Amy Costa |      800.00 |
| MA    | John Adams |     1150.00 |
| RI    | Amy Costa |     5000.00 |
+-------+-----------+-------------+
3 rows in set (0.00 sec)

mysql> select avg(yrgoal) from donor;
+-------------+
| avg(yrgoal) |
+-------------+
|  768.181818 |
+-------------+
1 row in set (0.00 sec)

mysql> select state, contact, sum(yrgoal)
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) > 768.181818;
+-------+-----------+-------------+
| state | contact   | sum(yrgoal) |
+-------+-----------+-------------+
| MA    | Amy Costa |      800.00 |
| MA    | John Adams |     1150.00 |
| RI    | Amy Costa |     5000.00 |
+-------+-----------+-------------+
3 rows in set (0.00 sec)
```

total based on grouping by state and contact

Where eliminates records as the group is being formed

having eliminates groups (after formed)

I am only using the donor table. In the inner select I am finding the average of yrgoal and then in the outer select I am showing the groups by state and contact within state where the sum of the yrgoal is greater than the average yrgoal.

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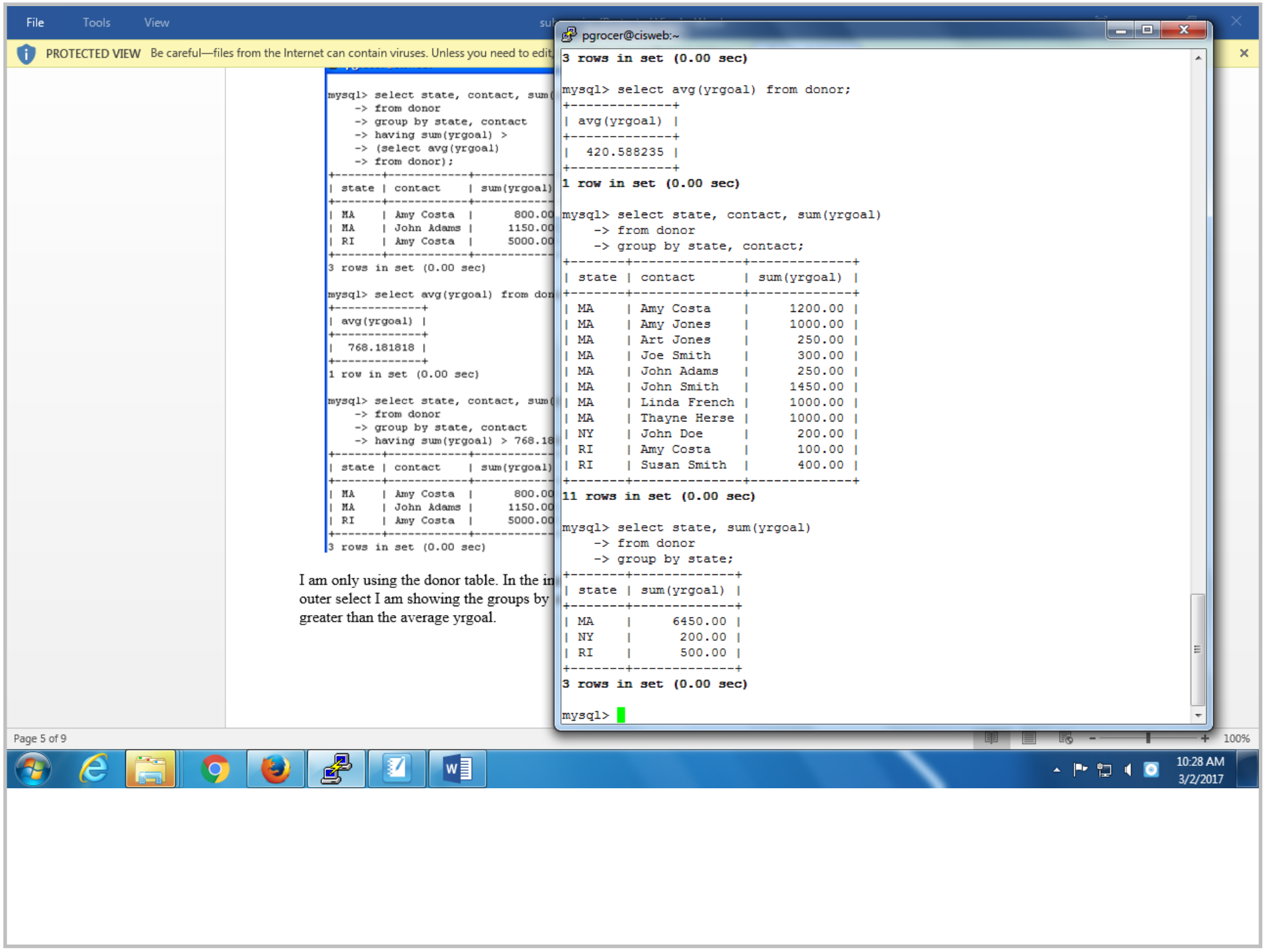
File
Tools
View
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit
mysql> select state, contact, sum(
-> from donor
-> group by state, contact
-> having sum(yrgoal) >
-> (select avg(yrgoal)
-> from donor);
| state | contact | sum(yrgoal)
| MA | Amy Costa | 800.00
| MA | John Adams | 1150.00
| RI | Amy Costa | 5000.00
3 rows in set (0.00 sec)
mysql> select avg(yrgoal) from don
| avg(yrgoal) |
| 768.181818 |
1 row in set (0.00 sec)
mysql> select state, contact, sum(
-> from donor
-> group by state, contact
-> having sum(yrgoal) > 768.18
| state | contact | sum(yrgoal)
| MA | Amy Costa | 800.00
| MA | John Adams | 1150.00
| RI | Amy Costa | 5000.00
3 rows in set (0.00 sec)
I am only using the donor table. In the in
outer select I am showing the groups by
greater than the average yrgoal.
pgrocer@cisweb:~
3 rows in set (0.00 sec)
mysql> select avg(yrgoal) from donor;
| avg(yrgoal) |
| 420.588235 |
1 row in set (0.00 sec)
mysql> select state, contact, sum(yrgoal)
-> from donor
-> group by state, contact;
state	contact	sum(yrgoal)
MA	Amy Costa	1200.00
MA	Amy Jones	1000.00
MA	Art Jones	250.00
MA	Joe Smith	300.00
MA	John Adams	250.00
MA	John Smith	1450.00
MA	Linda French	1000.00
MA	Thayne Herse	1000.00
NY	John Doe	200.00
RI	Amy Costa	100.00
RI	Susan Smith	400.00
11 rows in set (0.00 sec)
mysql> select state, sum(yrgoal)
-> from donor
-> group by state;
state	sum(yrgoal)
MA	6450.00
NY	200.00
RI	500.00
3 rows in set (0.00 sec)
mysql>
Page 5 of 9
100%
10:28 AM
3/2/2017

File Tools View

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```
mysql> select state, contact, sum(
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) >
    -> (select avg(yrgoal)
    -> from donor);
+-------+-----------+-----------
| state | contact   | sum(yrgoal)
+-------+-----------+-----------
| MA    | Amy Costa |      800.00
| MA    | John Adams |     1150.00
| RI    | Amy Costa |     5000.00
+-------+-----------+-----------
3 rows in set (0.00 sec)

mysql> select avg(yrgoal) from don
+-------------+
| avg(yrgoal) |
+-------------+
|  768.181818 |
+-------------+
1 row in set (0.00 sec)

mysql> select state, contact, sum(
    -> from donor
    -> group by state, contact
    -> having sum(yrgoal) > 768.18
+-------+-----------+-----------
| state | contact   | sum(yrgoal)
+-------+-----------+-----------
| MA    | Amy Costa |      800.00
| MA    | John Adams |     1150.00
| RI    | Amy Costa |     5000.00
+-------+-----------+-----------
3 rows in set (0.00 sec)
```

I am only using the donor table. In the in
outer select I am showing the groups by
greater than the average yrgoal.

pgrocer@cisweb:~

```
    -> group by state, contact;
+-------+--------------+-------------+
| state | contact      | sum(yrgoal) |
+-------+--------------+-------------+
| MA    | Amy Costa    |     1200.00 |
| MA    | Amy Jones    |     1000.00 |
| MA    | Art Jones    |      250.00 |
| MA    | Joe Smith    |      300.00 |
| MA    | John Adams   |      250.00 |
| MA    | John Smith   |     1450.00 |
| MA    | Linda French |     1000.00 |
| MA    | Thayne Herse |     1000.00 |
| NY    | John Doe     |      200.00 |
| RI    | Amy Costa    |      100.00 |
| RI    | Susan Smith  |      400.00 |
+-------+--------------+-------------+
11 rows in set (0.00 sec)

mysql> select state, sum(yrgoal)
    -> from donor
    -> group by state;
+-------+-------------+
| state | sum(yrgoal) |
+-------+-------------+
| MA    |     6450.00 |
| NY    |      200.00 |
| RI    |      500.00 |
+-------+-------------+
3 rows in set (0.00 sec)

mysql> select state, contact, sum(yrgoal)
    -> from donor
    -> group by state;
+-------+--------------+-------------+
| state | contact      | sum(yrgoal) |
+-------+--------------+-------------+
| MA    | Amy Costa    |     6450.00 |
| NY    | John Doe     |      200.00 |
| RI    | Susan Smith  |      500.00 |
+-------+--------------+-------------+
3 rows in set (0.00 sec)

mysql>
```

Most SQL does not allow contact to be displayed when it is not in the group by clause. The contact is meaningless and gives an impression that Amy Costa was the MA contact.

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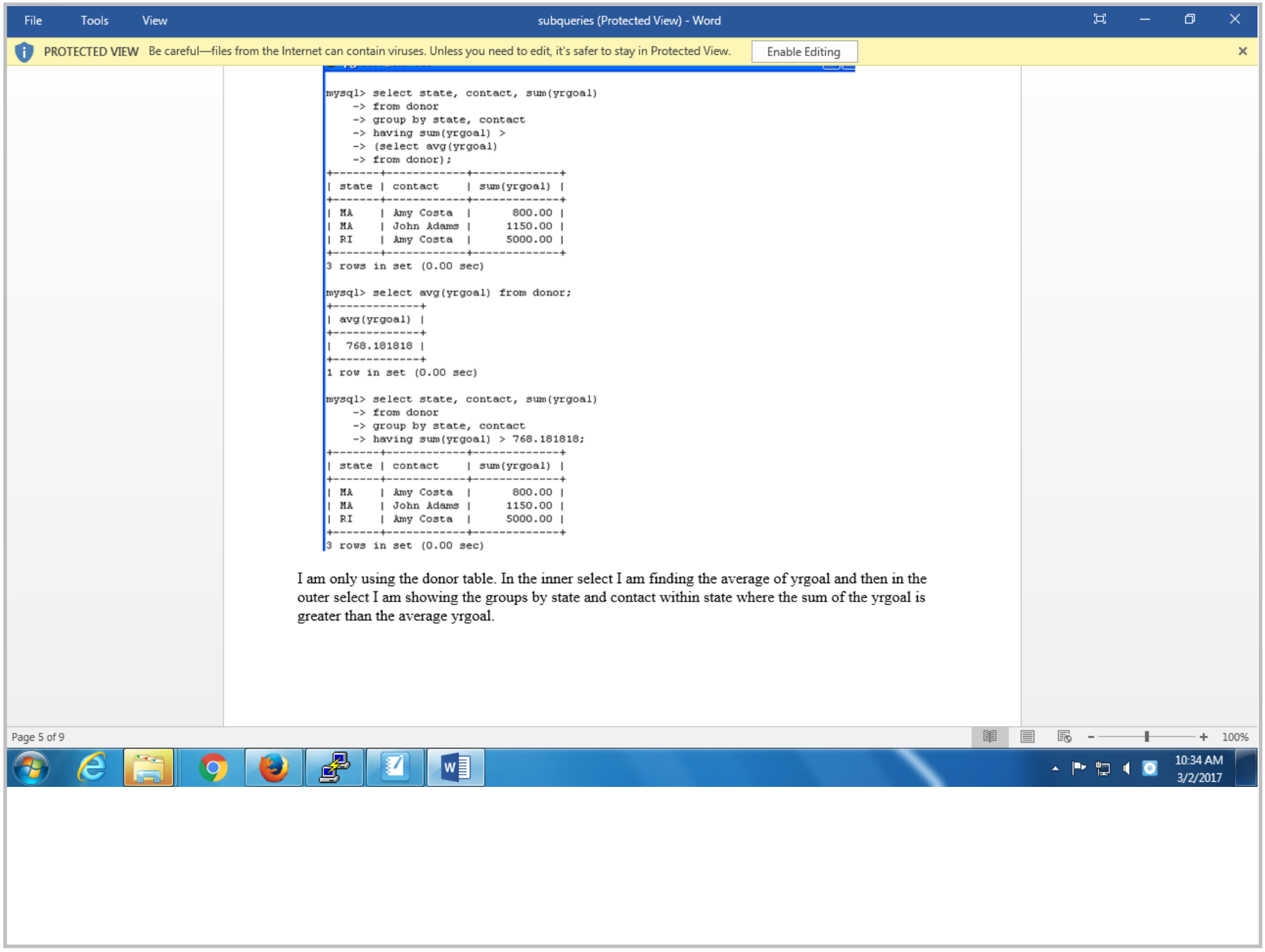
File
Tools
View
subqueries (Protected View) - Word
PROTECTED VIEW
Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
mysql> select state, contact, sum(yrgoal)
-> from donor
-> group by state, contact
-> having sum(yrgoal) >
-> (select avg(yrgoal)
-> from donor);
+-------+------------+-------------+
| state | contact | sum(yrgoal) |
+-------+------------+-------------+
MA	Amy Costa	800.00
MA	John Adams	1150.00
RI	Amy Costa	5000.00
+-------+------------+-------------+
3 rows in set (0.00 sec)
mysql> select avg(yrgoal) from donor;
+-------------+
| avg(yrgoal) |
+-------------+
| 768.181818 |
+-------------+
1 row in set (0.00 sec)
mysql> select state, contact, sum(yrgoal)
-> from donor
-> group by state, contact
-> having sum(yrgoal) > 768.181818;
+-------+------------+-------------+
| state | contact | sum(yrgoal) |
+-------+------------+-------------+
MA	Amy Costa	800.00
MA	John Adams	1150.00
RI	Amy Costa	5000.00
+-------+------------+-------------+
3 rows in set (0.00 sec)
I am only using the donor table. In the inner select I am finding the average of yrgoal and then in the outer select I am showing the groups by state and contact within state where the sum of the yrgoal is greater than the average yrgoal.
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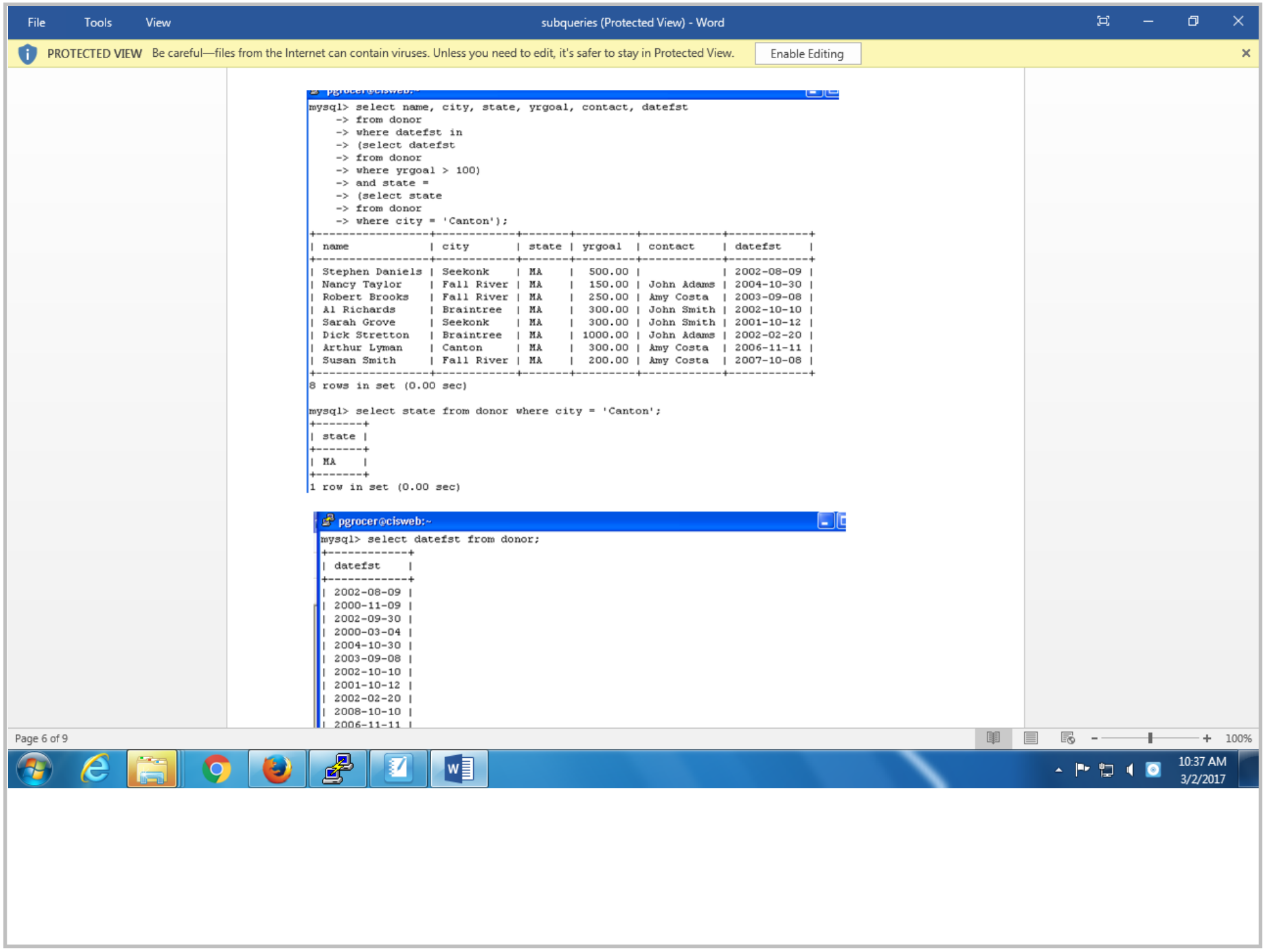
100%
10:34 AM
3/2/2017


File
Tools
View
subqueries (Protected View) - Word
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
mysql> select name, city, state, yrgoal, contact, datefst
-> from donor
-> where datefst in
-> (select datefst
-> from donor
-> where yrgoal > 100)
-> and state =
-> (select state
-> from donor
-> where city = 'Canton');
name	city	state	yrgoal	contact	datefst
Stephen Daniels	Seekonk	MA	500.00		2002-08-09
Nancy Taylor	Fall River	MA	150.00	John Adams	2004-10-30
Robert Brooks	Fall River	MA	250.00	Amy Costa	2003-09-08
Al Richards	Braintree	MA	300.00	John Smith	2002-10-10
Sarah Grove	Seekonk	MA	300.00	John Smith	2001-10-12
Dick Stretton	Braintree	MA	1000.00	John Adams	2002-02-20
Arthur Lyman	Canton	MA	300.00	Amy Costa	2006-11-11
Susan Smith	Fall River	MA	200.00	Amy Costa	2007-10-08
8 rows in set (0.00 sec)
mysql> select state from donor where city = 'Canton';
state
MA
1 row in set (0.00 sec)
pgrocer@cisweb:~
mysql> select datefst from donor;
datefst
2002-08-09
2000-11-09
2002-09-30
2000-03-04
2004-10-30
2003-09-08
2002-10-10
2001-10-12
2002-02-20
2008-10-10
2006-11-11
Page 6 of 9
100%
10:37 AM
3/2/2017

File Tools View subqueries (Protected View) - Word

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pgrocer@cisweb:~

```
mysql> select *
    -> from donor
    -> where contact in
    -> (select contact
    -> from donor
    -> where state = 'RI')
    -> or
    -> contact in
    -> (select contact
    -> from donor
    -> where yrgoal > 1000);
+-------+--------------+-----------------+------------+-------+-------+--------
---+---------+-------------+
| idno  | name         | stadr           | city       | state | zip   | datefs
   | yrgoal  | contact     |
+-------+--------------+-----------------+------------+-------+-------+--------
---+---------+-------------+
| 12121 | Jennifer Ames | 24 Benefit St   | Providence | RI    | 02045 | 2000-1
09 |  400.00 | Susan Jones |
| 22222 | Carl Hersey   | 24 Benefit St   | Providence | RI    | 02045 | 2002-0
30 |    NULL | Susan Jones |
| 23456 | Susan Ash     | 21 Main St      | Fall River | MA    | 02720 | 2000-0
04 |   50.00 | Amy Costa   |
| 34567 | Robert Brooks | 36 Pine St      | Fall River | MA    | 02720 | 2003-0
08 |  250.00 | Amy Costa   |
| 72901 | Mary Jones    | 89 Prospect Ave | Providence | RI    | 02111 | 2008-1
10 | 5000.00 | Amy Costa   |
| 72727 | Arthur Lyman  | 12 Main St      | Canton     | MA    | 02667 | 2006-1
11 |  300.00 | Amy Costa   |
| 45678 | Susan Smith   | 2 Main St       | Fall River | MA    | 02720 | 2007-1
08 |  200.00 | Amy Costa   |
+-------+--------------+-----------------+------------+-------+-------+--------
---+---------+-------------+
7 rows in set (0.00 sec)
```

I what to select all colums from donor in the outer select where the contact is in the list that the first inner select comes up with OR the contact is in the list that the second inner select comes up with. Again I showed the two inner selects separately below to show what contact would be selected by each.

pgrocer@cisweb:~

```
mysql> select contact from donor where state = 'RI';
+-------------+
| contact     |
+-------------+
```

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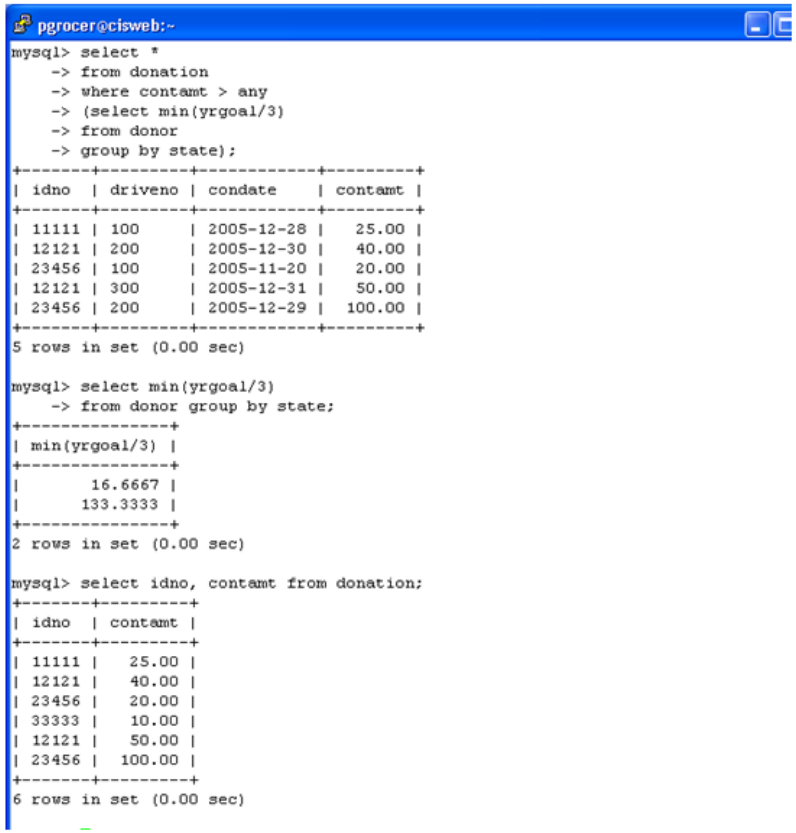
10:40 AM 3/2/2017

File Tools View subqueries (Protected View) - Word

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing



```
pgrocer@cisweb:~
mysql> select *
    -> from donation
    -> where contamt > any
    -> (select min(yrgoal/3)
    -> from donor
    -> group by state);
+-------+---------+------------+---------+
| idno  | driveno | condate    | contamt |
+-------+---------+------------+---------+
| 11111 | 100     | 2005-12-28 |   25.00 |
| 12121 | 200     | 2005-12-30 |   40.00 |
| 23456 | 100     | 2005-11-20 |   20.00 |
| 12121 | 300     | 2005-12-31 |   50.00 |
| 23456 | 200     | 2005-12-29 |  100.00 |
+-------+---------+------------+---------+
5 rows in set (0.00 sec)

mysql> select min(yrgoal/3)
    -> from donor group by state;
+---------------+
| min(yrgoal/3) |
+---------------+
|       16.6667 |
|      133.3333 |
+---------------+
2 rows in set (0.00 sec)

mysql> select idno, contamt from donation;
+-------+---------+
| idno  | contamt |
+-------+---------+
| 11111 |   25.00 |
| 12121 |   40.00 |
| 23456 |   20.00 |
| 33333 |   10.00 |
| 12121 |   50.00 |
| 23456 |  100.00 |
+-------+---------+
6 rows in set (0.00 sec)
```

Here I am displaying all of the information from the donation table where the contamt than any of the

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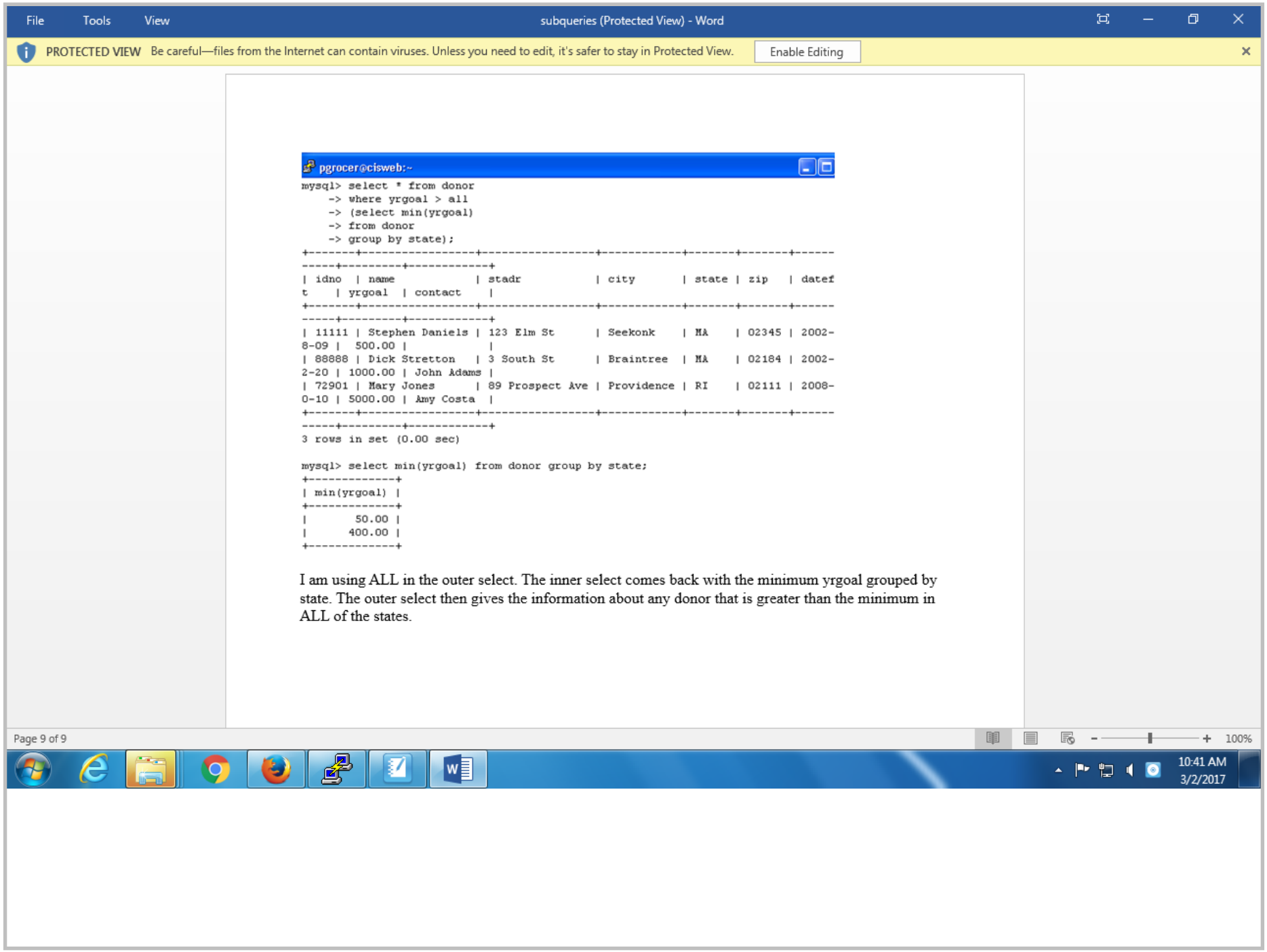
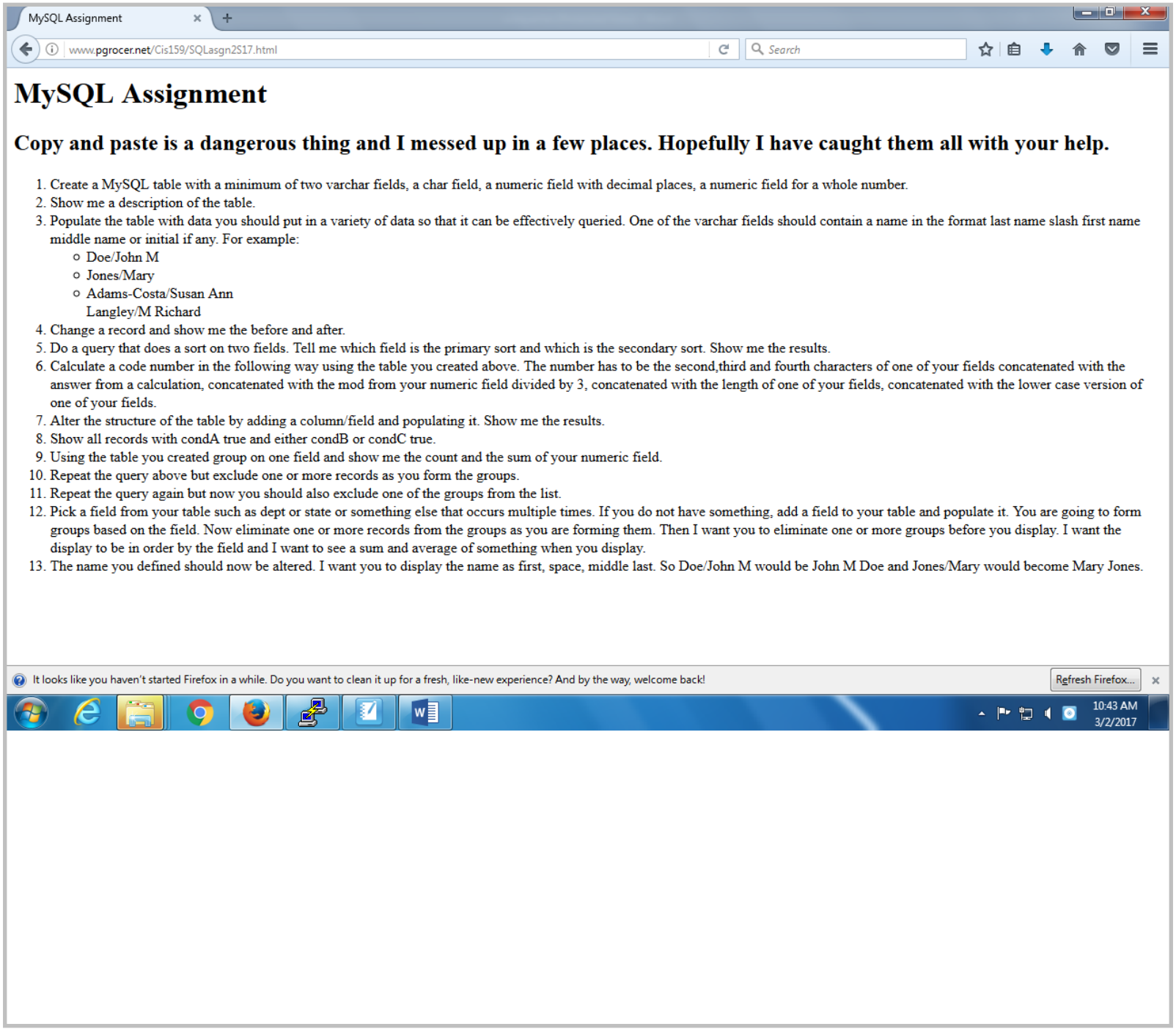
10:41 AM 3/2/2017


File
Tools
View
subqueries (Protected View) - Word
PROTECTED VIEW
Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
pgrocer@cisweb:~
mysql> select * from donor
-> where yrgoal > all
-> (select min(yrgoal)
-> from donor
-> group by state);
| idno | name | stadr | city | state | zip | datef
t | yrgoal | contact |
| 11111 | Stephen Daniels | 123 Elm St | Seekonk | MA | 02345 | 2002-
8-09 | 500.00 | |
| 88888 | Dick Stretton | 3 South St | Braintree | MA | 02184 | 2002-
2-20 | 1000.00 | John Adams |
| 72901 | Mary Jones | 89 Prospect Ave | Providence | RI | 02111 | 2008-
0-10 | 5000.00 | Amy Costa |
3 rows in set (0.00 sec)
mysql> select min(yrgoal) from donor group by state;
| min(yrgoal) |
| 50.00 |
| 400.00 |
I am using ALL in the outer select. The inner select comes back with the minimum yrgoal grouped by state. The outer select then gives the information about any donor that is greater than the minimum in ALL of the states.
Page 9 of 9
100%
10:41 AM
3/2/2017


MySQL Assignment
www.pgrocer.net/Cis159/SQLasgn2S17.html
Search
MySQL Assignment
Copy and paste is a dangerous thing and I messed up in a few places. Hopefully I have caught them all with your help.
1. Create a MySQL table with a minimum of two varchar fields, a char field, a numeric field with decimal places, a numeric field for a whole number.
2. Show me a description of the table.
3. Populate the table with data you should put in a variety of data so that it can be effectively queried. One of the varchar fields should contain a name in the format last name slash first name middle name or initial if any. For example:
Doe/John M
Jones/Mary
Adams-Costa/Susan Ann
Langley/M Richard
4. Change a record and show me the before and after.
5. Do a query that does a sort on two fields. Tell me which field is the primary sort and which is the secondary sort. Show me the results.
6. Calculate a code number in the following way using the table you created above. The number has to be the second,third and fourth characters of one of your fields concatenated with the answer from a calculation, concatenated with the mod from your numeric field divided by 3, concatenated with the length of one of your fields, concatenated with the lower case version of one of your fields.
7. Alter the structure of the table by adding a column/field and populating it. Show me the results.
8. Show all records with condA true and either condB or condC true.
9. Using the table you created group on one field and show me the count and the sum of your numeric field.
10. Repeat the query above but exclude one or more records as you form the groups.
11. Repeat the query again but now you should also exclude one of the groups from the list.
12. Pick a field from your table such as dept or state or something else that occurs multiple times. If you do not have something, add a field to your table and populate it. You are going to form groups based on the field. Now eliminate one or more records from the groups as you are forming them. Then I want you to eliminate one or more groups before you display. I want the display to be in order by the field and I want to see a sum and average of something when you display.
13. The name you defined should now be altered. I want you to display the name as first, space, middle last. So Doe/John M would be John M Doe and Jones/Mary would become Mary Jones.
It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!
Refresh Firefox...
10:43 AM
3/2/2017