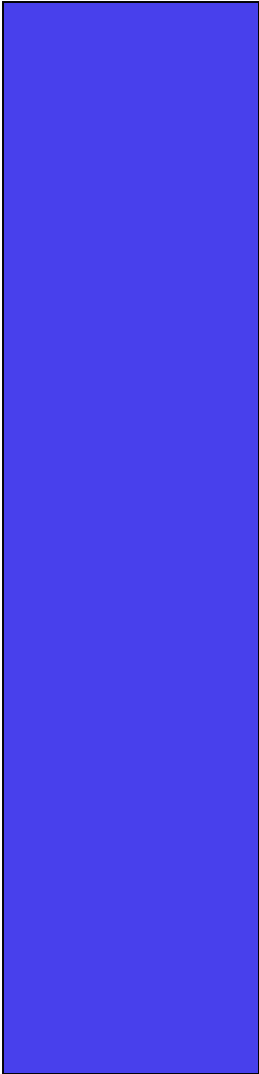
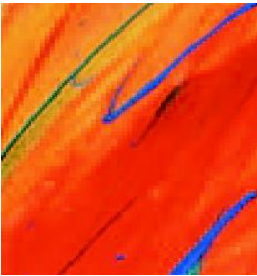
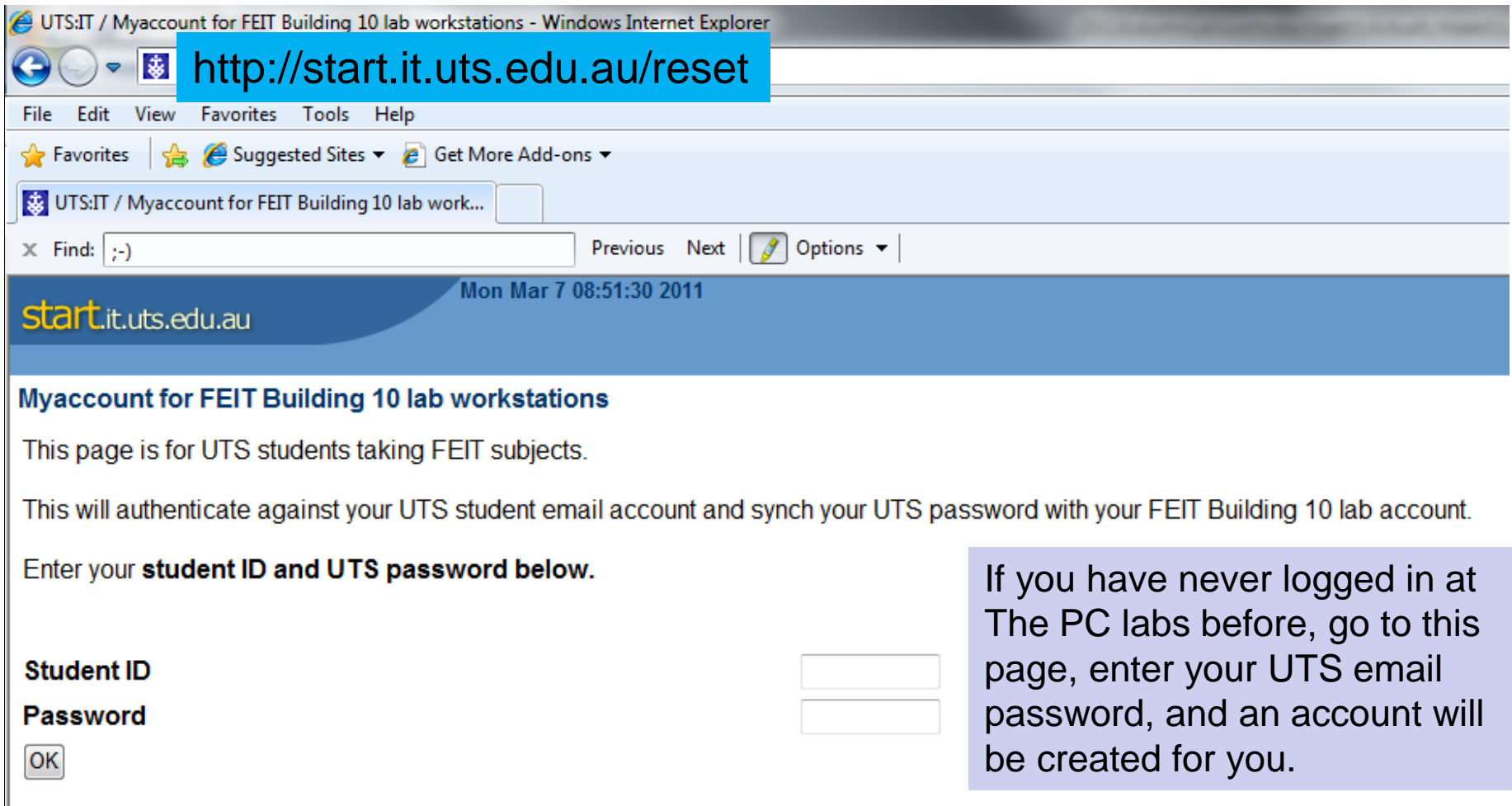


How to start PostgreSQL in the **labs**





If you don't have an account to login in PC labs



UTS:IT / Myaccount for FEIT Building 10 lab workstations - Windows Internet Explorer

http://start.it.uts.edu.au/reset

File Edit View Favorites Tools Help

★ Favorites | ★ Suggested Sites | Get More Add-ons

UTS:IT / Myaccount for FEIT Building 10 lab work...

Find: ;-) Previous Next Options

start.it.uts.edu.au Mon Mar 7 08:51:30 2011

Myaccount for FEIT Building 10 lab workstations

This page is for UTS students taking FEIT subjects.

This will authenticate against your UTS student email account and synch your UTS password with your FEIT Building 10 lab account.

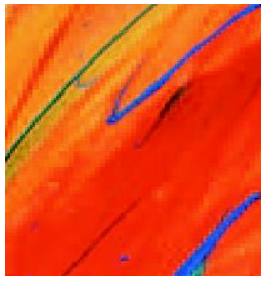
Enter your **student ID and UTS password below.**

Student ID

Password

OK

If you have never logged in at The PC labs before, go to this page, enter your UTS email password, and an account will be created for you.



Download Database Script files

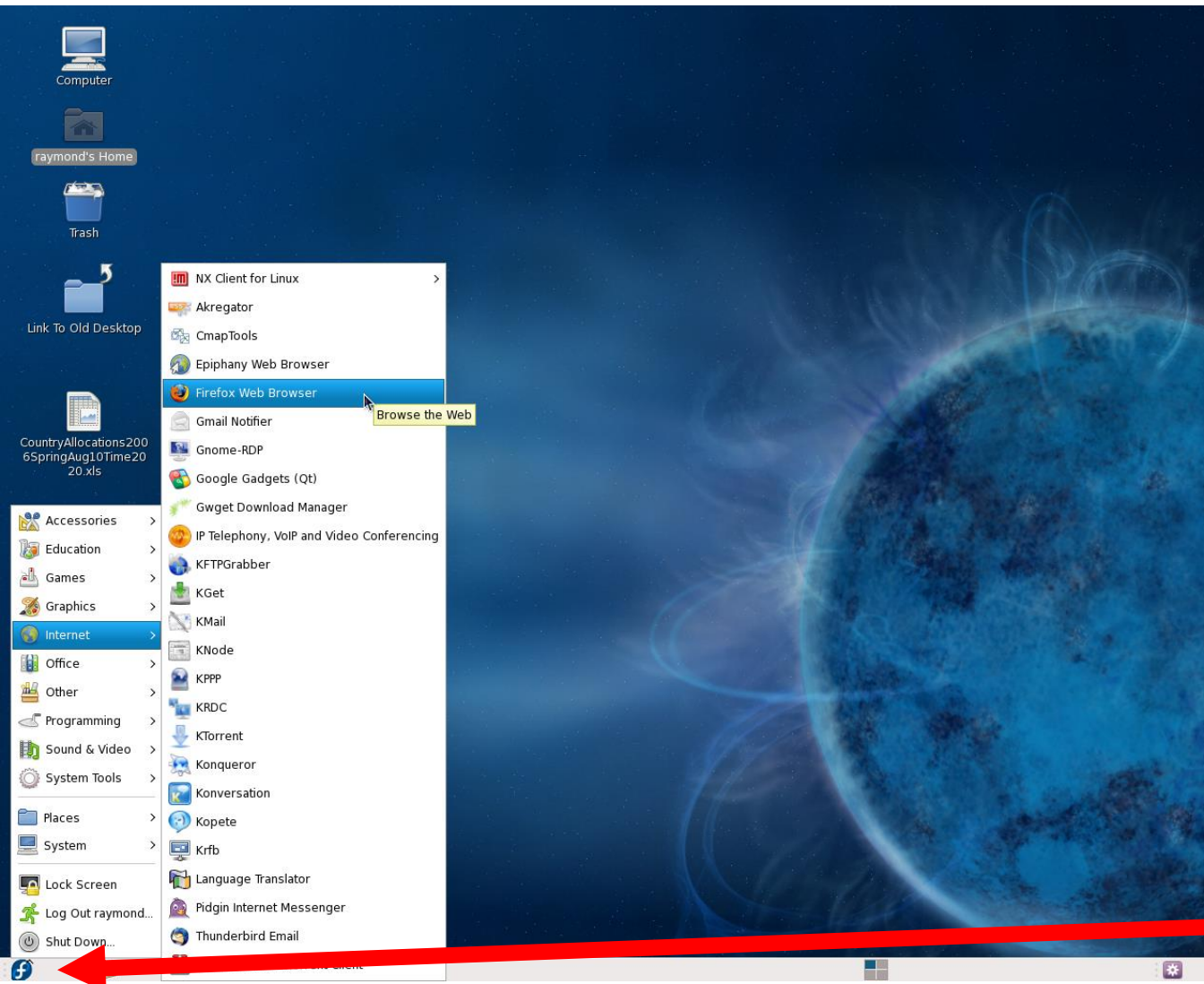
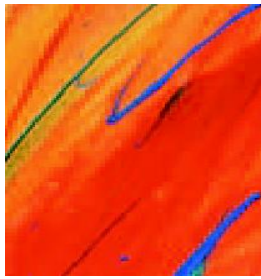
Start a web browser (“firefox”)

To download any of the of databases used in lectures, you will need to start a web browser.

From the symbol that looks like a funny “f” select “Internet” then “Firefox Web Browser”.

Note: the “f” symbol may be in the top left hand corner of the Screen, not the lower left as shown here.

The funny “f” symbol

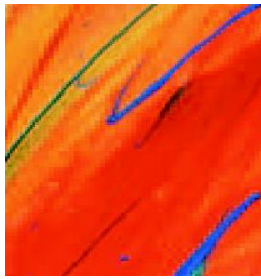


Downloading a database to your file space: e.g. boygirl

Go to

UTS Online → Subject Materials → Week 7 → Database Scripts for PostgreSQL

then download the sample database (e.g. dbfile.txt or dbfile.sql)



File Edit View History Bookmarks

- New Window Ctrl+N
- New Tab Ctrl+T
- Open Location... Ctrl+L
- Open File... Ctrl+O
- Close Ctrl+W
- Save Page As... Ctrl+S**
- Send Link...
- Page Setup...
- Print Preview
- Print... Ctrl+P
- Import...
- Work Offline
- Quit Ctrl+Q

```
);
CONSTRAINT girlNoPK PRIMARY KEY (girlNo)
);

Create table Boy
(
    boyNo          integer,
    boyName        char(10),
    girlNo         integer,
    boyMobile      char(10),

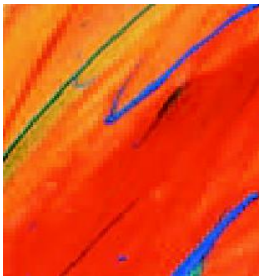
    CONSTRAINT boyNoPK PRIMARY KEY (boyNo),
    CONSTRAINT girlNoFK FOREIGN KEY (girlNo) REFERENCES Girl
);

INSERT INTO Girl VALUES(1, 'Alice', '0414 1234');
INSERT INTO Girl VALUES(2, 'Bonnie', '0414 1235');

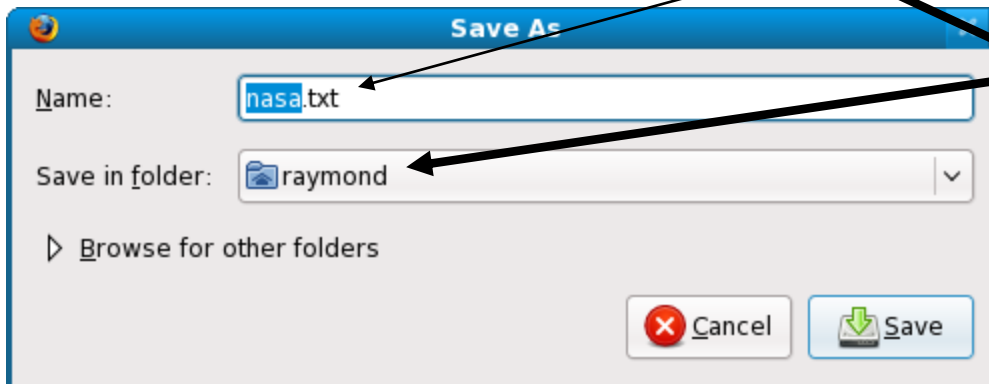
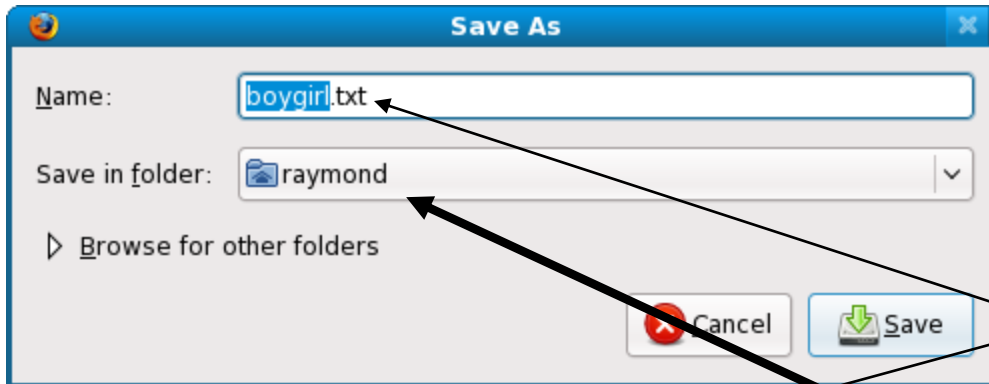
Insert into Boy VALUES( 1, 'Adam', 1, '0414 1236');
Insert into Boy VALUES( 2, 'Bob', 2, '0414 1237');
Insert into Boy VALUES( 3, 'Charlie', 2, '0414 1238');
Insert into Boy VALUES( 4, 'Dennis', null, null);

-- raymond=> select * from Boy;
--
-- boyno | boyname | girlno | boyMobile
-- -----+-----+-----+-----
-- 1 | Adam | 1 | 0414 1236
-- 2 | Bob | 2 | 0414 1237
-- 3 | Charlie | 2 | 0414 1238
-- 4 | Dennis | |
-- (4 rows)
--
-- raymond=> select * from Girl;
--
-- girlno | girlname | girlMobile
-- -----+-----+-----
-- 1 | Alice | 0414 1234
-- 2 | Bonnie | 0414 1235
--
Done
```

Open the file, then select
“Save page as”
on the “File” menu and save
the file in **your Home Folder**.

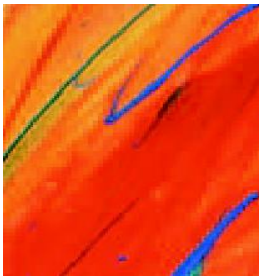


Save As



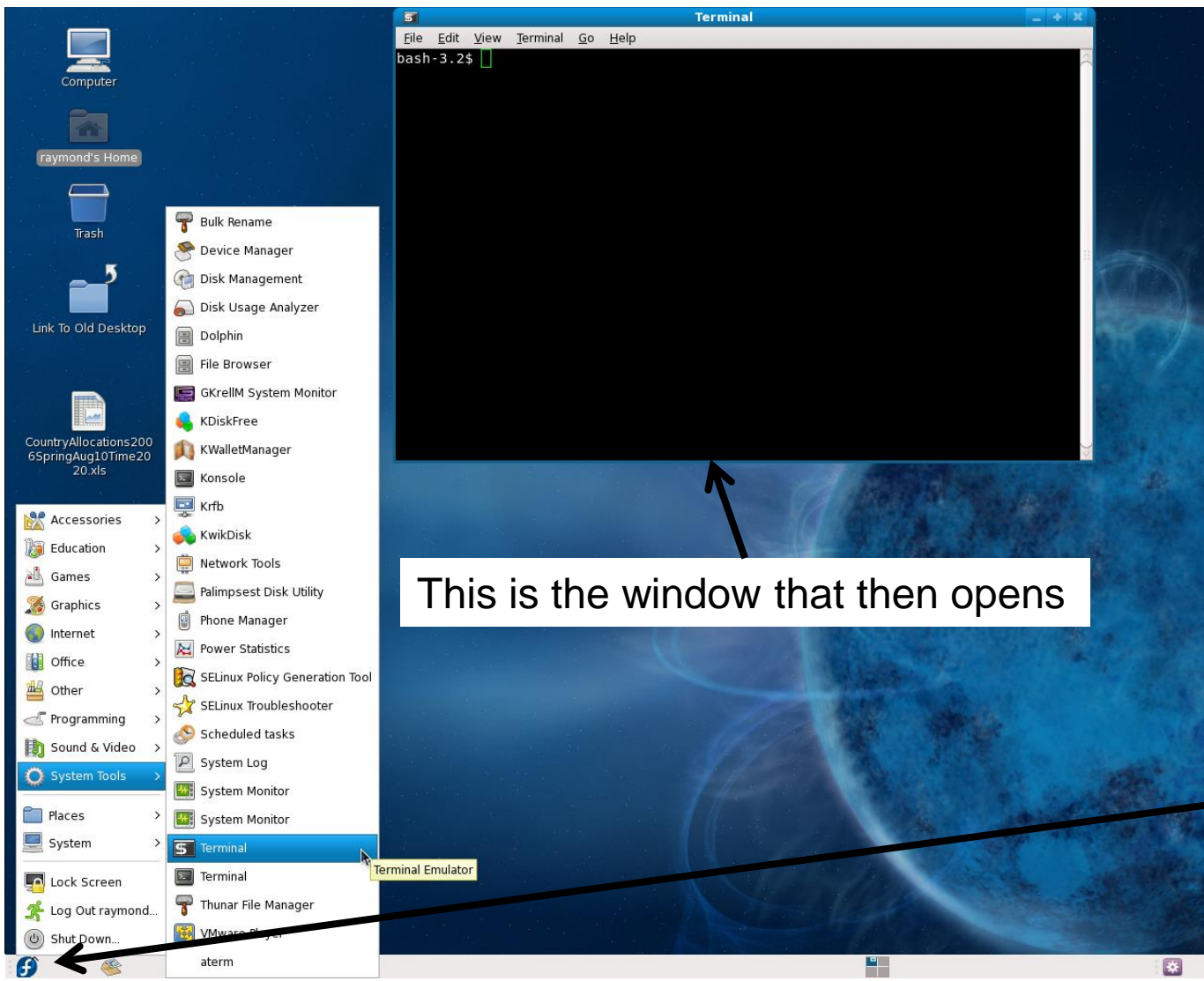
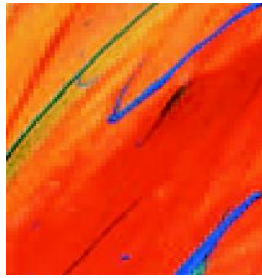
Before hitting “Save” in the “Save As” pop up window, make sure that:

- 1) The suffix of the file name is the same as the suffix of the file that you have downloaded. It should be “.txt” or “.sql”.
- 2) The “Save in folder” shows your user name.




Start Using PostgreSQL

Starting a Window (1)

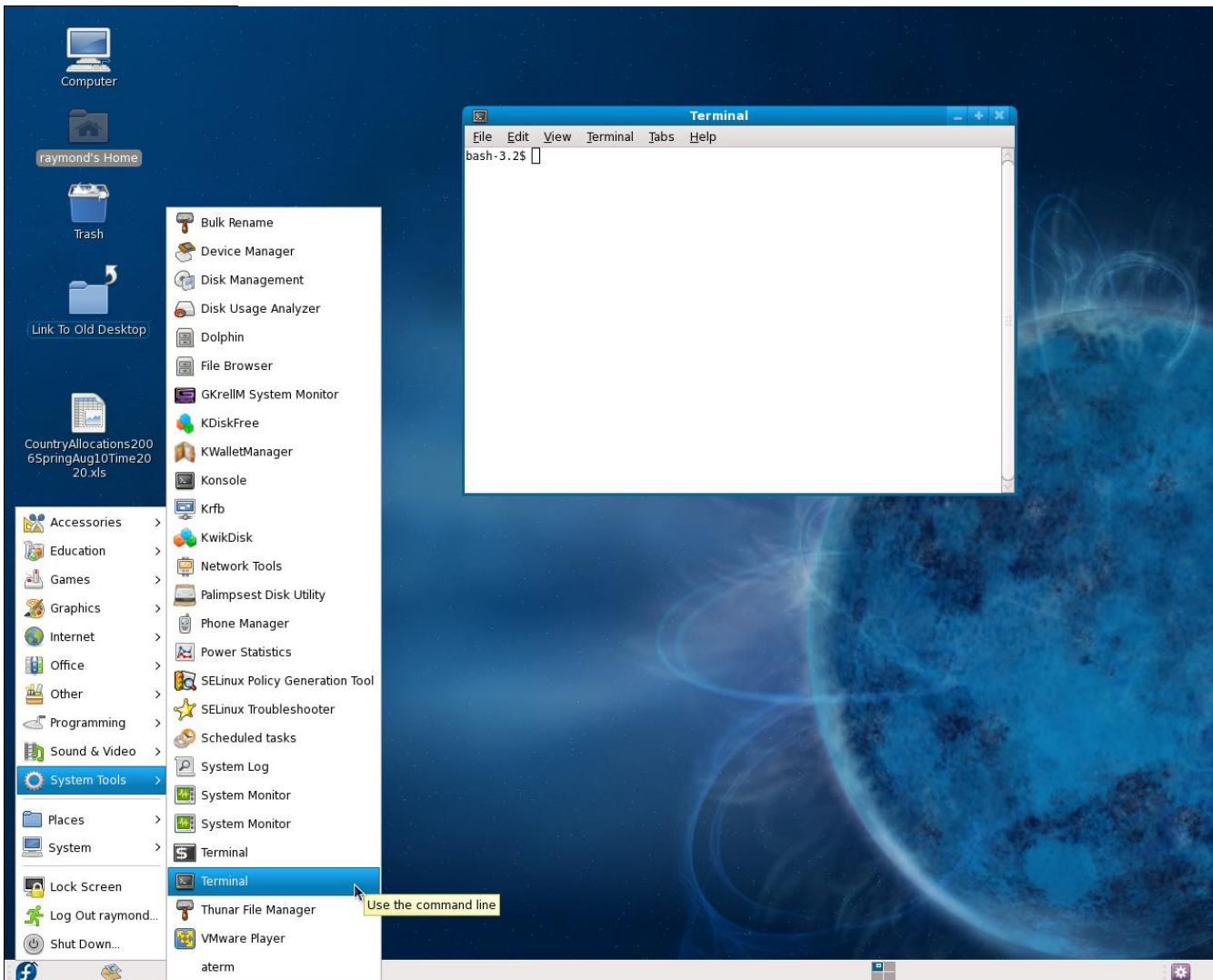


From the symbol that looks like a funny “f” select “System Tools” then “Terminal”.

Note: the “f” symbol may be in the top left hand corner of the Screen, not the lower left as shown here.

 The funny “f” symbol

Starting a Window (2)



The window you opened with the instructions on the previous slide has white writing on a black background. If you prefer black writing on a white background, then from the funny “f” select “System Tools” then the lower of the two “Terminal” menu options.



PostgreSQL login

You need two login/passwords

- The first is the login/password you used to log into the lab PC.
- The second login/password is needed to use PostgreSQL.
 - In your UTS email, if you enrolled in this subject early enough, you should have received an email containing your PostgreSQL login/password ...

Your PostgreSQL account details are as follows

Database:	←	your PostgreSQL user name listed twice here
Username:	←	
Password:	←	

your PostgreSQL password here



The sample email contains Username and Pass

Your PostgreSQL account details are as follows

Database: vabehboo
Username: vabehboo
Password: 7HuesntT
Database server: pgsqlab.it.uts.edu.au

Use the following command on UTS:IT Unix Servers or UTS:IT Linux workstations to connect:

```
rerun$ psql -h pgsqlab.it.uts.edu.au -U vabehboo vabehboo
```

and the password 7HuesntT when prompted for it.

Use the student Unix server rerun.it.uts.edu.au to connect to the server remotely (from outside of the UTS network). If you are unsure of how to connect to a unix server, see the documentation at http://wiki.it.uts.edu.au/start/Connecting_to_UTS:IT_UNIX_Servers .

Use these values when connecting to PostgreSQL through MS ACCESS with ODBC Connection.

Database: vabehboo
Server: ``pgsqlab.it.uts.edu.au`` Port: ``5432``
UserName: vabehboo Password: 7HuesntT

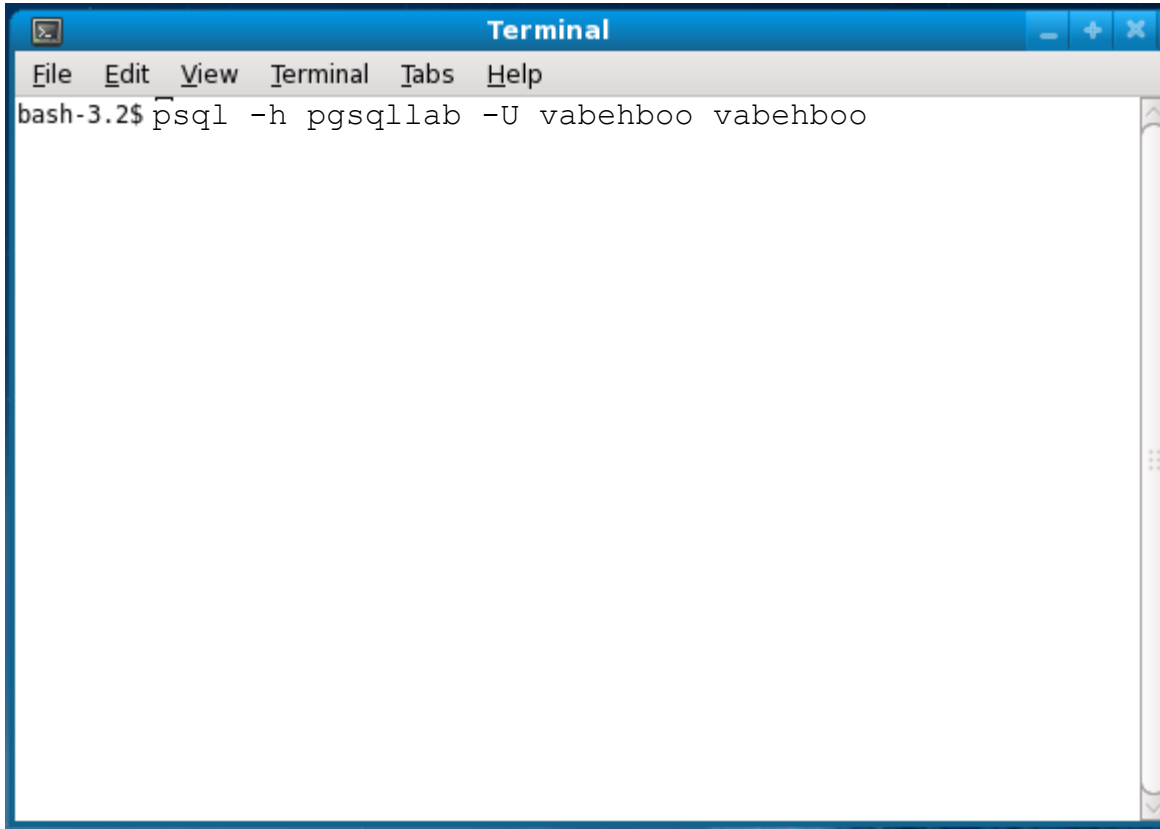
If you need to change your password, login to PostgreSQL with your current details and try:

```
ALTER USER vabehboo WITH PASSWORD 'thenewpassword';
```

(don't forget the single quotes!)



Start PostgreSQL



```
Terminal
File Edit View Terminal Tabs Help
bash-3.2$ psql -h pgsqlab -U vabehboo vabehboo
```

Type the command shown in the window, replacing “raymond” with **your** PostgreSQL login name

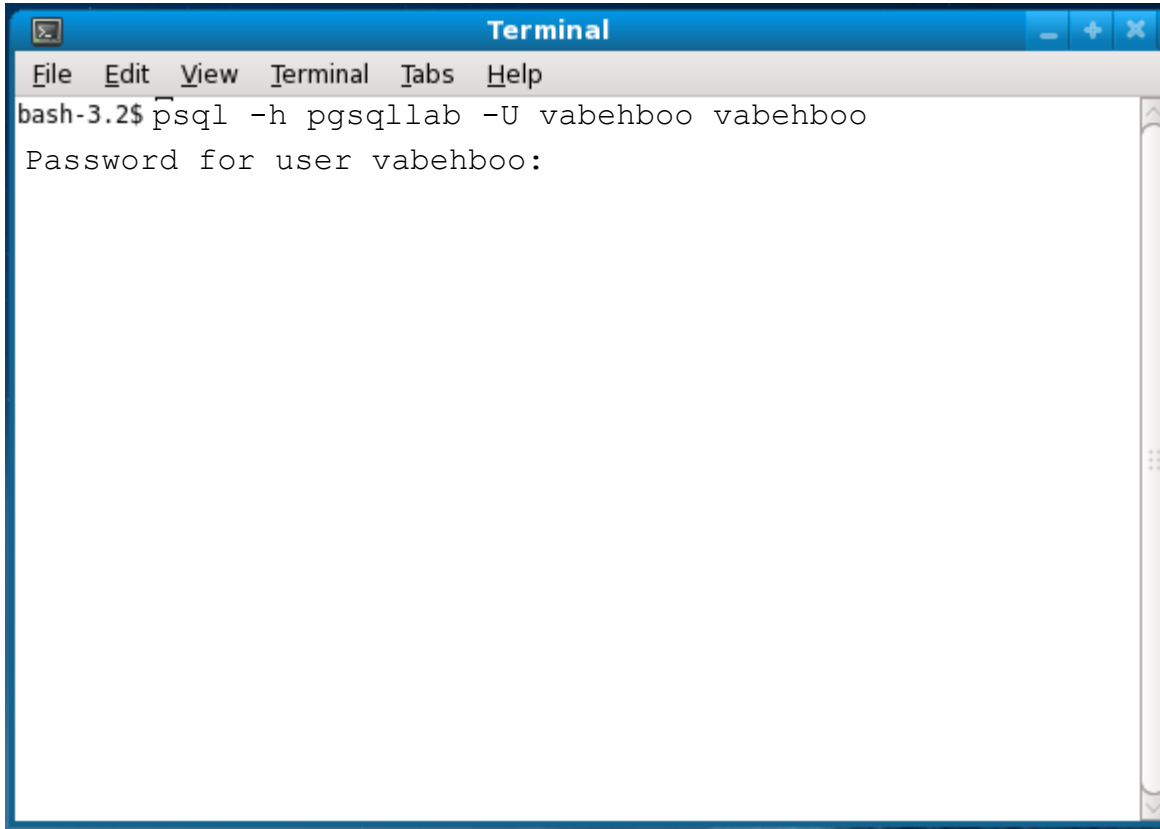
Note that “pgsqlab” is spelt with a double “l”.

Here is the same command again, in a bigger font ...

psql -h pgsqlab -U vabehboo vabehboo



Start PostgreSQL

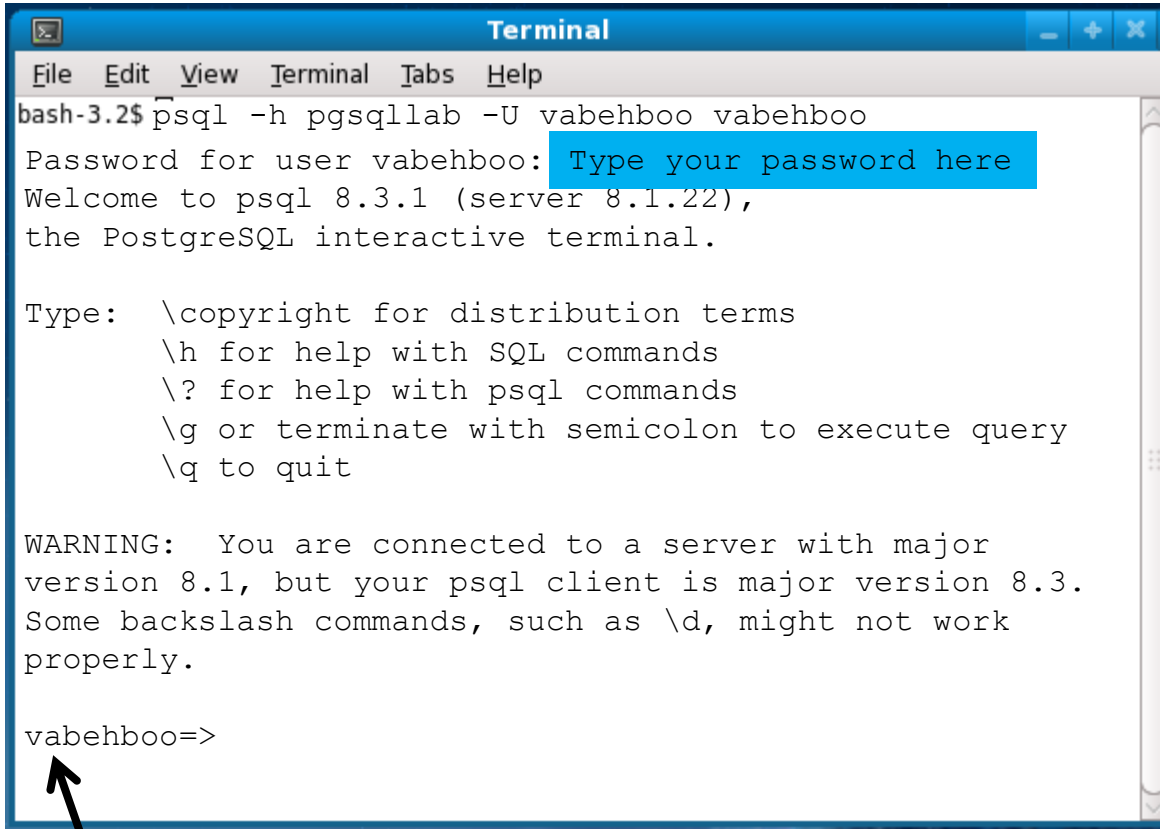


```
Terminal
File Edit View Terminal Tabs Help
bash-3.2$ psql -h pgsqlab -U vabehboo vabehboo
Password for user vabehboo:
```

You will then be prompted for your postgresql password, which is NOT the same as the password you used when you first logged in to the computer.



Start PostgreSQL




```
Terminal
File Edit View Terminal Tabs Help
bash-3.2$ psql -h pgsqlab -U vabehboo vabehboo
Password for user vabehboo: Type your password here
Welcome to psql 8.3.1 (server 8.1.22),
the PostgreSQL interactive terminal.

Type:  \copyright for distribution terms
       \h for help with SQL commands
       \? for help with psql commands
       \g or terminate with semicolon to execute query
       \q to quit

WARNING:  You are connected to a server with major
version 8.1, but your psql client is major version 8.3.
Some backslash commands, such as \d, might not work
properly.

vabehboo=>
```



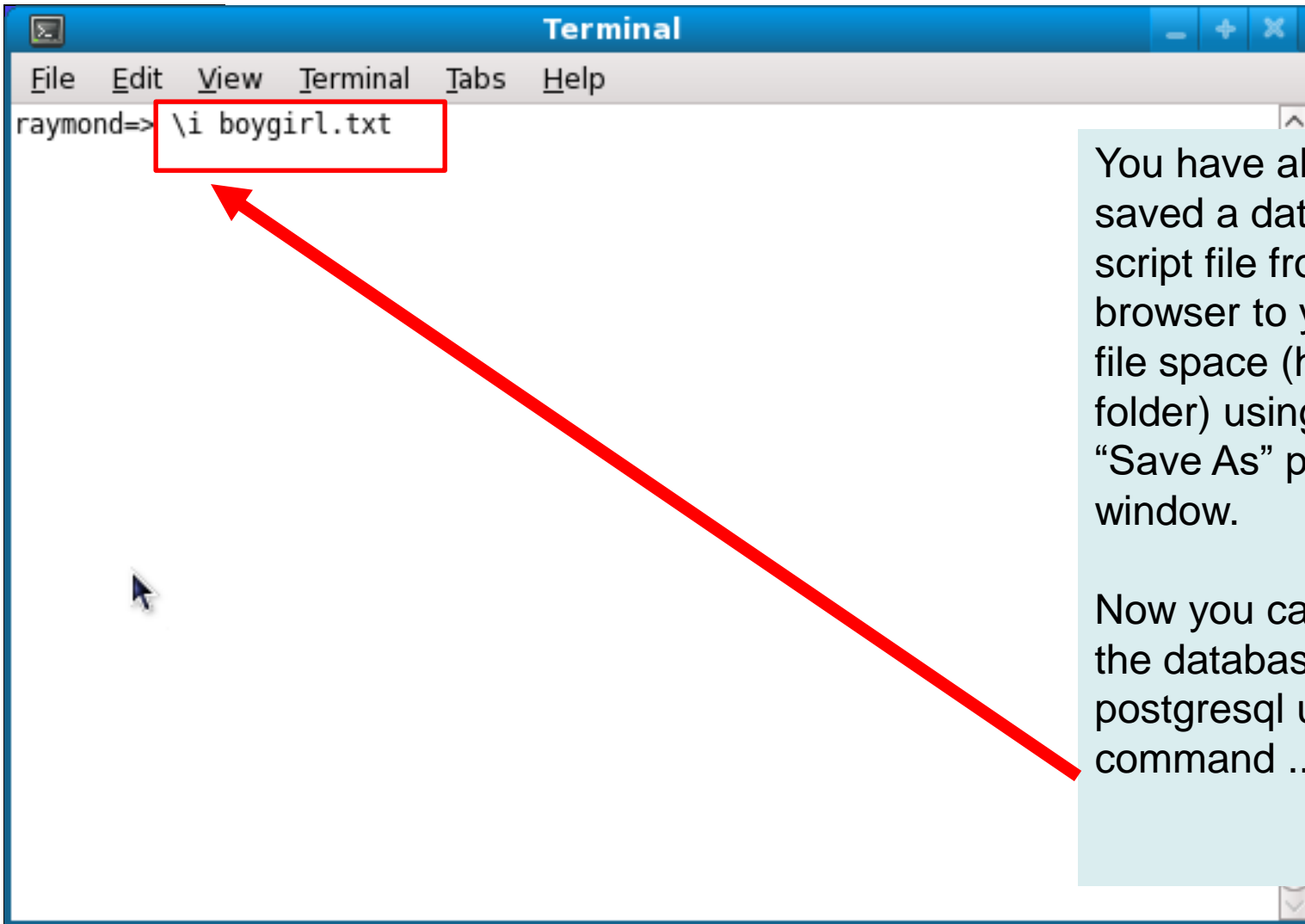
Your login name will be here, not “raymond”

After typing your password, you will get some information similar to what is shown here.

NOTE: the bottom line of the information will not show “raymond”, but instead will show your login name. That line is a “**prompt**” for you to provide a command. 14



Uploading into postgresQL



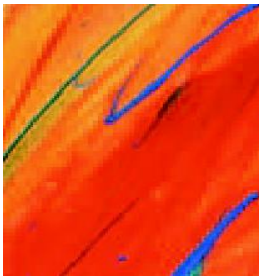
```
Terminal
File Edit View Terminal Tabs Help
raymond=> \i boygirl.txt
```

A screenshot of a terminal window titled "Terminal". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The command prompt shows "raymond=>" followed by "\i boygirl.txt", which is highlighted by a red rectangular box. A red arrow points from the text "vi" in the bottom right of the slide to this box. The terminal window also shows standard window controls (minimize, maximize, close) in the top right corner.

You have already saved a database script file from a web browser to your own file space (home folder) using the "Save As" pop up window.

Now you can upload the database into postgresql using the command ...

vi

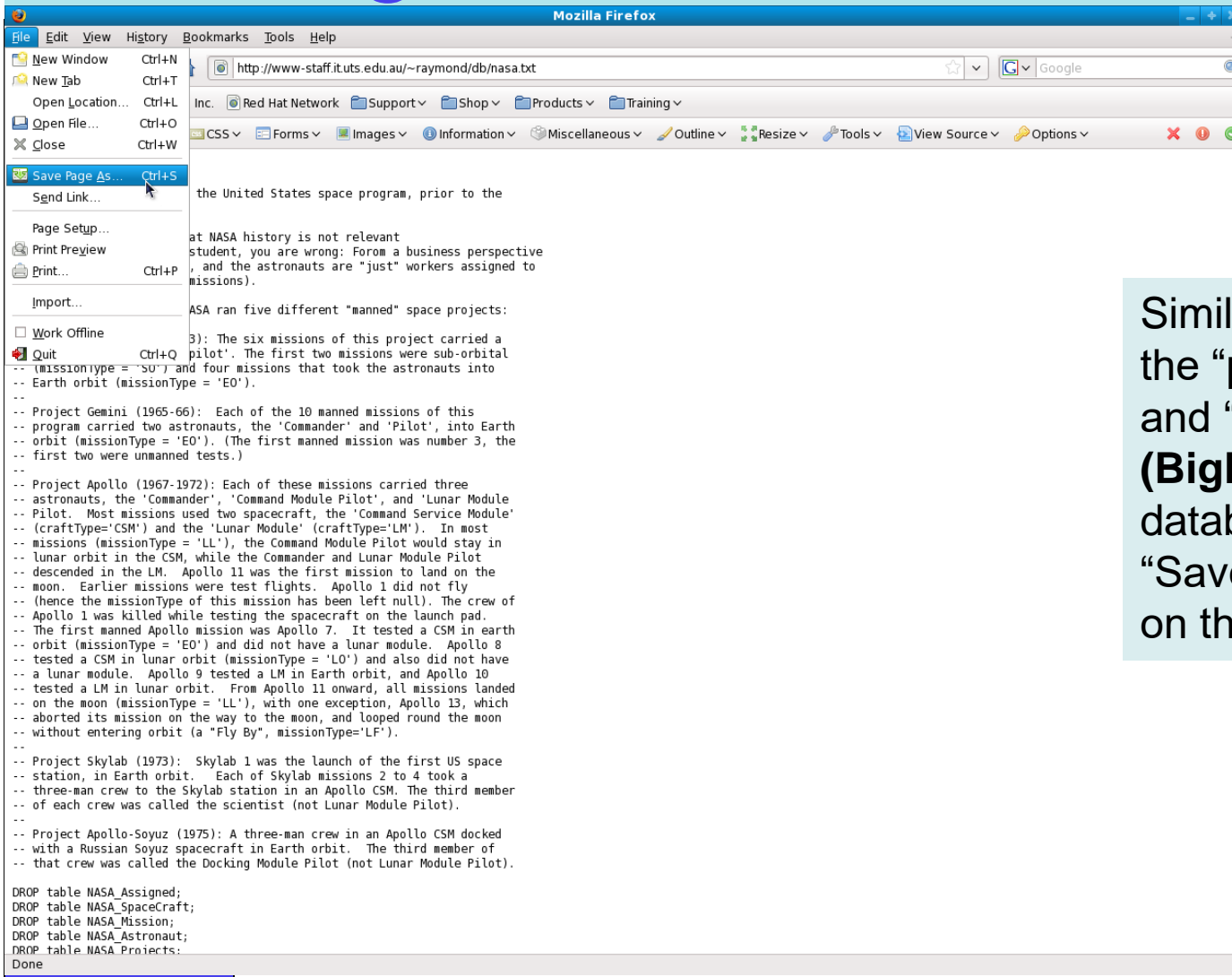


Successful Upload of boygirl.txt

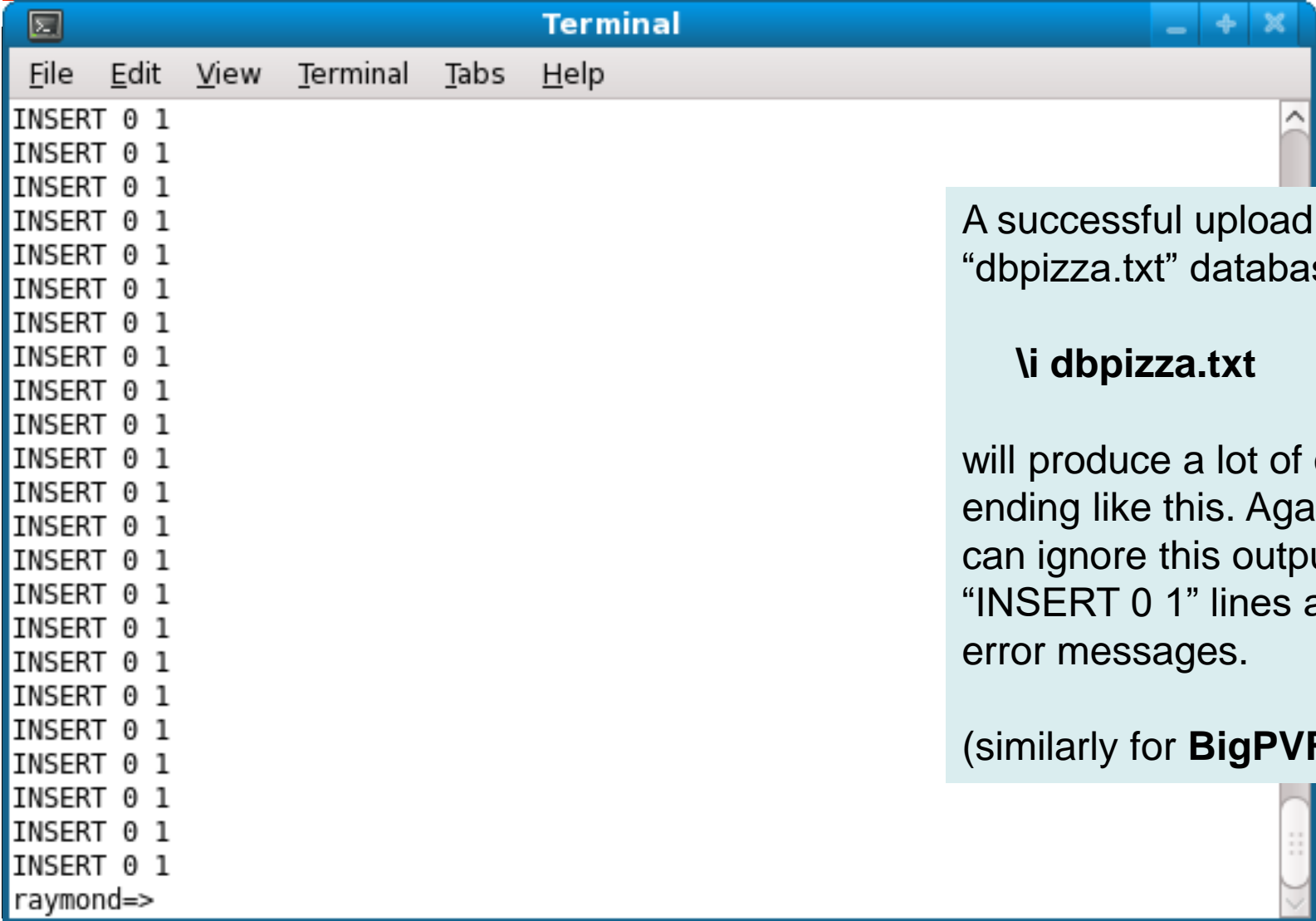
```
Terminal
File Edit View Terminal Tabs Help
raymond=> \i boygirl.txt
DROP TABLE
DROP TABLE
psql:boygirl.txt:16: NOTICE: CREATE TABLE / PRIMARY KEY will create implicit in
dex "girlnopk" for table "girl"
CREATE TABLE
psql:boygirl.txt:28: NOTICE: CREATE TABLE / PRIMARY KEY will create implicit in
dex "boynopk" for table "boy"
CREATE TABLE
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
INSERT 0 1
raymond=>
```

A successful upload of the “boygirl.txt” database will produce output like this. You can ignore this output; the “notice” lines and the “INSERT 0 1” lines are **not** error messages.

Uploading into postgresSQL: e.g. nasa.txt and/or nasa2.txt



Similarly for downloading
the “**pizza (dbpizza.txt)**”
and “**Pine Valley
(BigPVFC.txt)**”
databases, first select
“Save page as”
on the “File” menu.



A successful upload of the “dbpizza.txt” database ...

\i dbpizza.txt

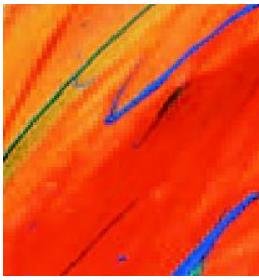
will produce a lot of output, ending like this. Again, you can ignore this output; the “INSERT 0 1” lines are **not** error messages.

(similarly for **BigPVFC.txt**)

\i dbpizza.txt

will produce a lot of output, ending like this. Again, you can ignore this output; the “INSERT 0 1” lines are **not** error messages.

(similarly for **BigPVFC.txt**)



Select * from Boy;

```
Terminal
File Edit View Terminal Tabs Help
raymond=> select * from Boy;
 boyno | boyname | girlno | boymobile
-----+-----+-----+-----
      1 | Adam    |      1 | 0414 1236
      2 | Bob     |      2 | 0414 1237
      3 | Charlie |      2 | 0414 1238
      4 | Dennis  |      | 
(4 rows)
raymond=> █
```

Try running ...

```
select * from Boy;
```

And see if you get output like this.

Don't forget to end the command with a semi-colon.



The missing semi-colon

```
Terminal
File Edit View Terminal Tabs Help
raymond=> select * from Boy
raymond-> ;
  boyno |  boyname  |  girlno |  boymobile
-----+-----+-----+-----
      1 |   Adam    |        1 | 0414 1236
      2 |   Bob     |        2 | 0414 1237
      3 |  Charlie  |        2 | 0414 1238
      4 |   Dennis  |         |
(4 rows)
raymond=>
```

Try running that command again, but this time leave off the semi-colon ...

```
select * from Boy
```

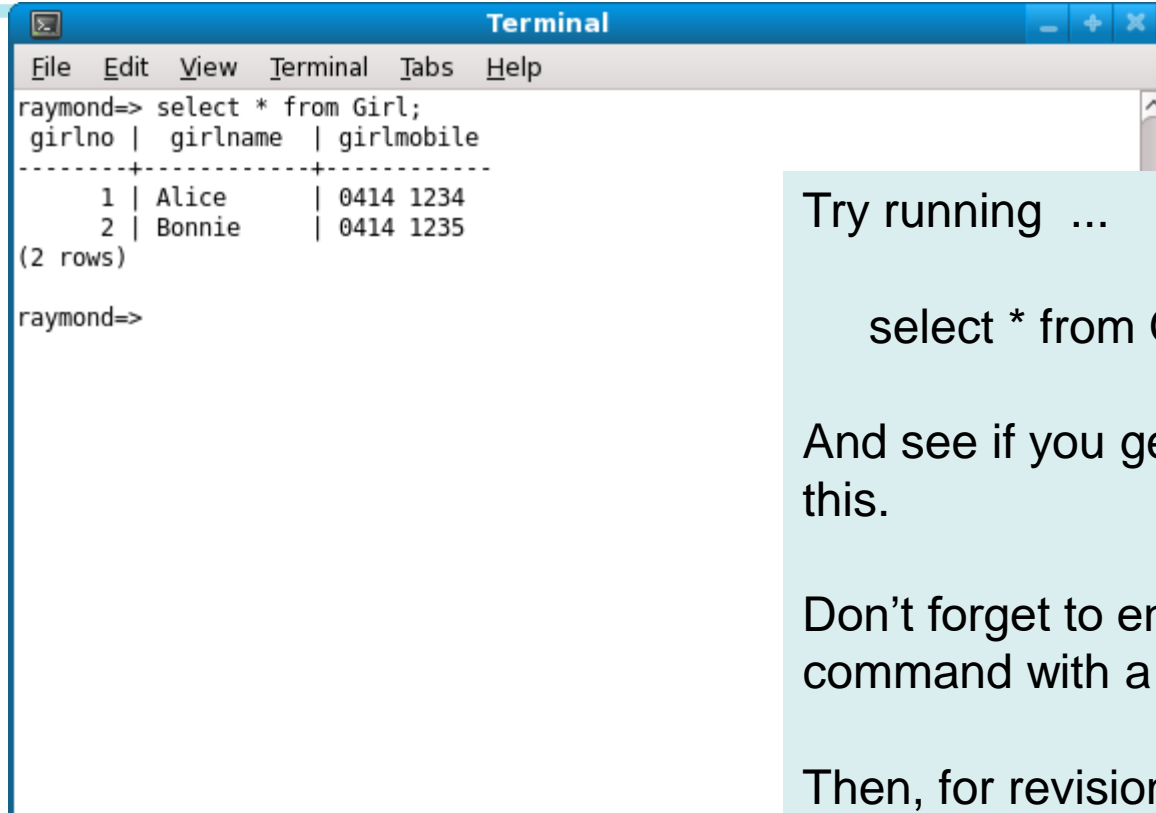
You will then get a second prompt, like this ...

```
raymond->
```

Notice how this second prompt has a single dash "-", not "=" like in the first prompt. The "-" in the second prompt is telling you that you haven't finished typing the command. If you then type the semi-colon, you will get the rest of the output shown.



Select * from Girl;



```
Terminal
File Edit View Terminal Tabs Help
raymond=> select * from Girl;
girlno | girlname | girlmobile
-----+-----+-----
      1 | Alice      | 0414 1234
      2 | Bonnie     | 0414 1235
(2 rows)
raymond=>
```

Try running ...

```
select * from Girl;
```

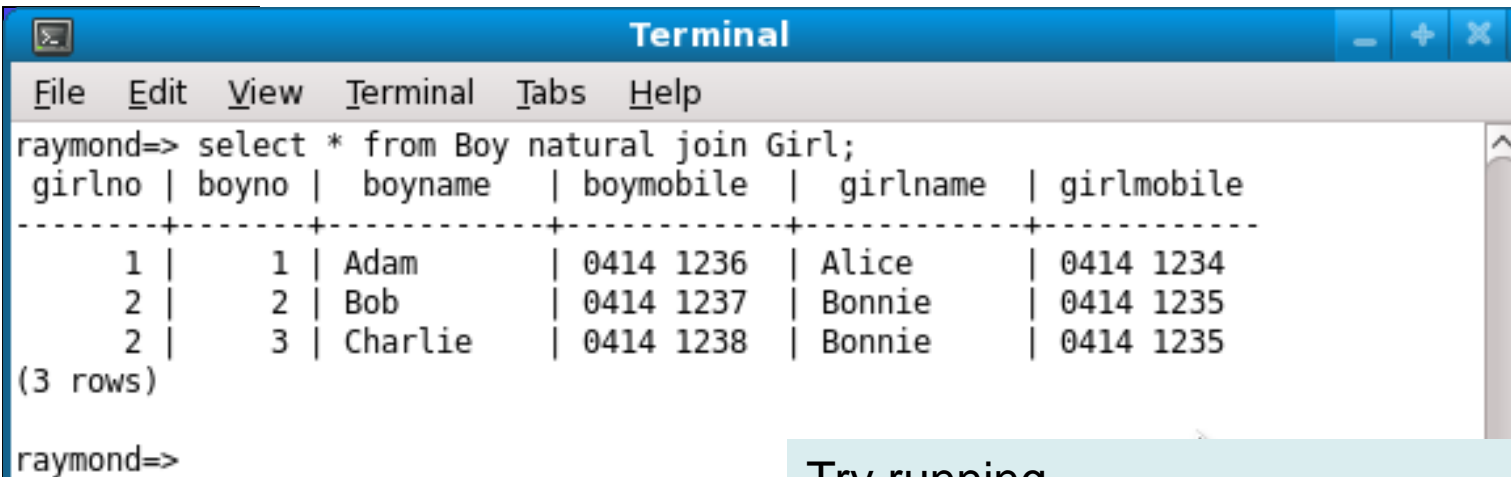
And see if you get output like this.

Don't forget to end the command with a semi-colon.

Then, for revision, type the command again, leaving off the semi-colon.



`select * from Boy natural join Girl;`



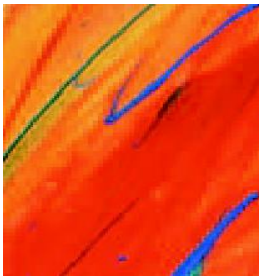
```
Terminal
File Edit View Terminal Tabs Help
raymond=> select * from Boy natural join Girl;
girlno | boyno | boyname | boymobile | girlname | girlmobile
-----+-----+-----+-----+-----+-----
      1 |      1 | Adam    | 0414 1236 | Alice    | 0414 1234
      2 |      2 | Bob     | 0414 1237 | Bonnie   | 0414 1235
      2 |      3 | Charlie | 0414 1238 | Bonnie   | 0414 1235
(3 rows)

raymond=>
```

Try running ...

`select * from Boy natural join Girl;`

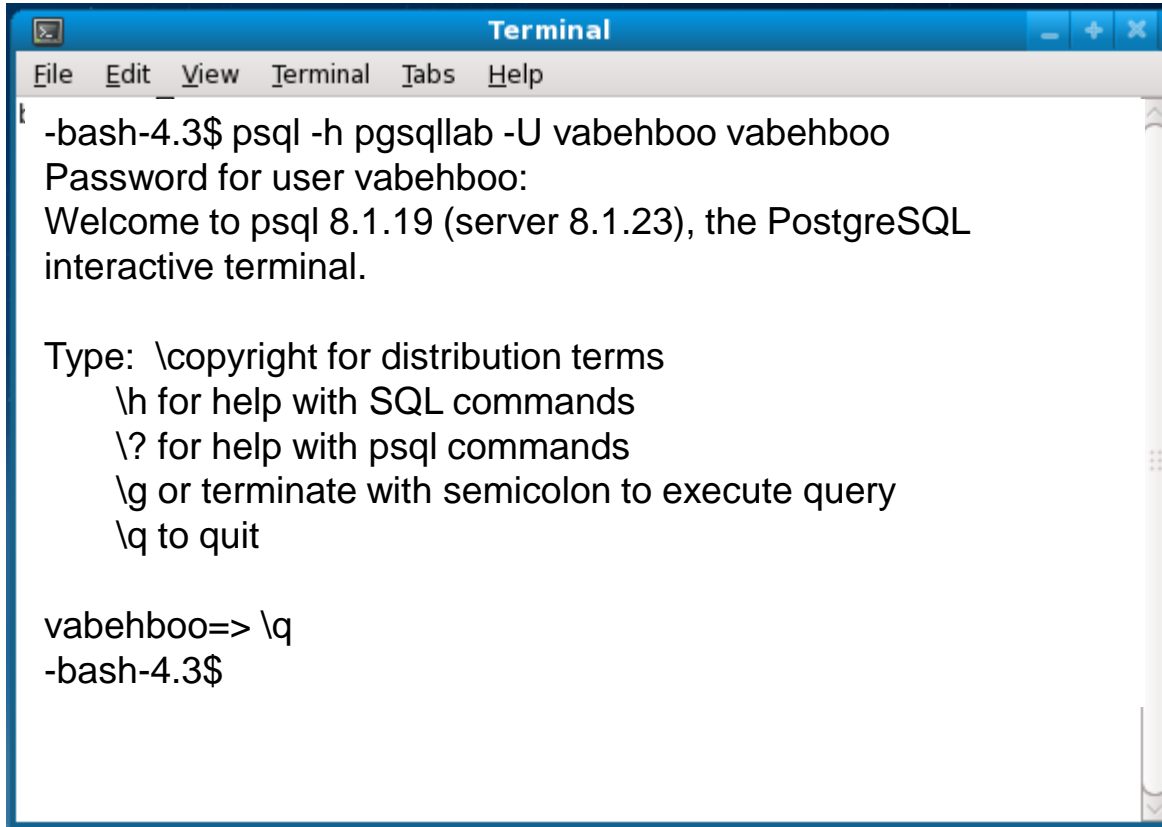
And that's the end of this introduction. If you are finishing up now, see earlier slides that tell you how to logout, first using “\q”, then “exit”, And then logout from the machine itself.



Quitting PostgreSQL



Quitting PostgreSQL



```
Terminal
File Edit View Terminal Tabs Help
-bash-4.3$ psql -h pgsqlab -U vabehboo vabehboo
Password for user vabehboo:
Welcome to psql 8.1.19 (server 8.1.23), the PostgreSQL
interactive terminal.

Type: \copyright for distribution terms
      \h for help with SQL commands
      \? for help with psql commands
      \g or terminate with semicolon to execute query
      \q to quit

vabehboo=> \q
-bash-4.3$
```

You can exit
postgresql at
any time by
typing ...

`\q`

... at the prompt.

In fact, practice
that now, and then
restart postgresql.

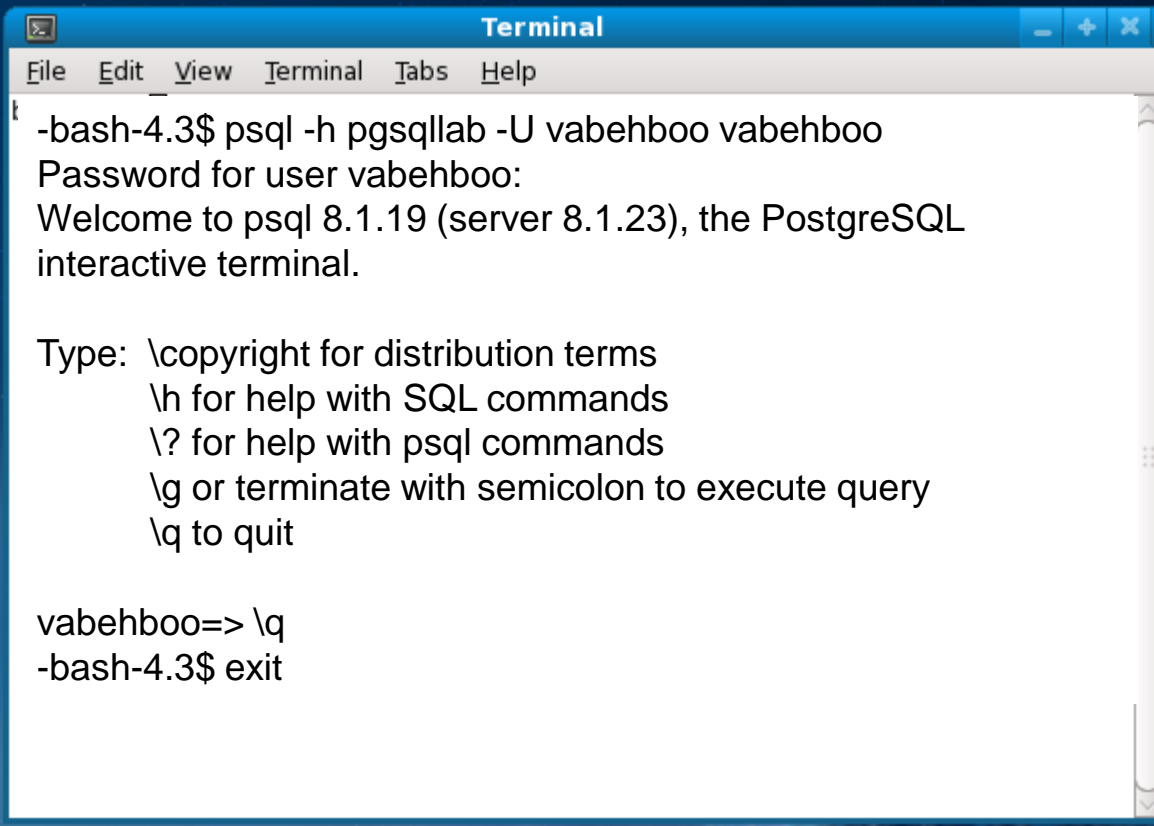
You should never have to retype the long "psql" command again ...

`psql -h pgsqlab -U vabehboo vabehboo`

... instead, use the up arrow key ↑ to scroll back through your history
and just hit enter when you see the long "psql" command.



Exiting the command window

A screenshot of a terminal window titled "Terminal". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The terminal content shows a user logging into a PostgreSQL database and then exiting. The prompt is "-bash-4.3\$". The user enters "psql -h pgsqllab -U vabehboo vabehboo". The prompt changes to "vabehboo=>". The user enters "\q". The prompt returns to "-bash-4.3\$". The user enters "exit".

```
-bash-4.3$ psql -h pgsqllab -U vabehboo vabehboo
Password for user vabehboo:
Welcome to psql 8.1.19 (server 8.1.23), the PostgreSQL
interactive terminal.

Type: \copyright for distribution terms
      \h for help with SQL commands
      \? for help with psql commands
      \g or terminate with semicolon to execute query
      \q to quit

vabehboo=> \q
-bash-4.3$ exit
```

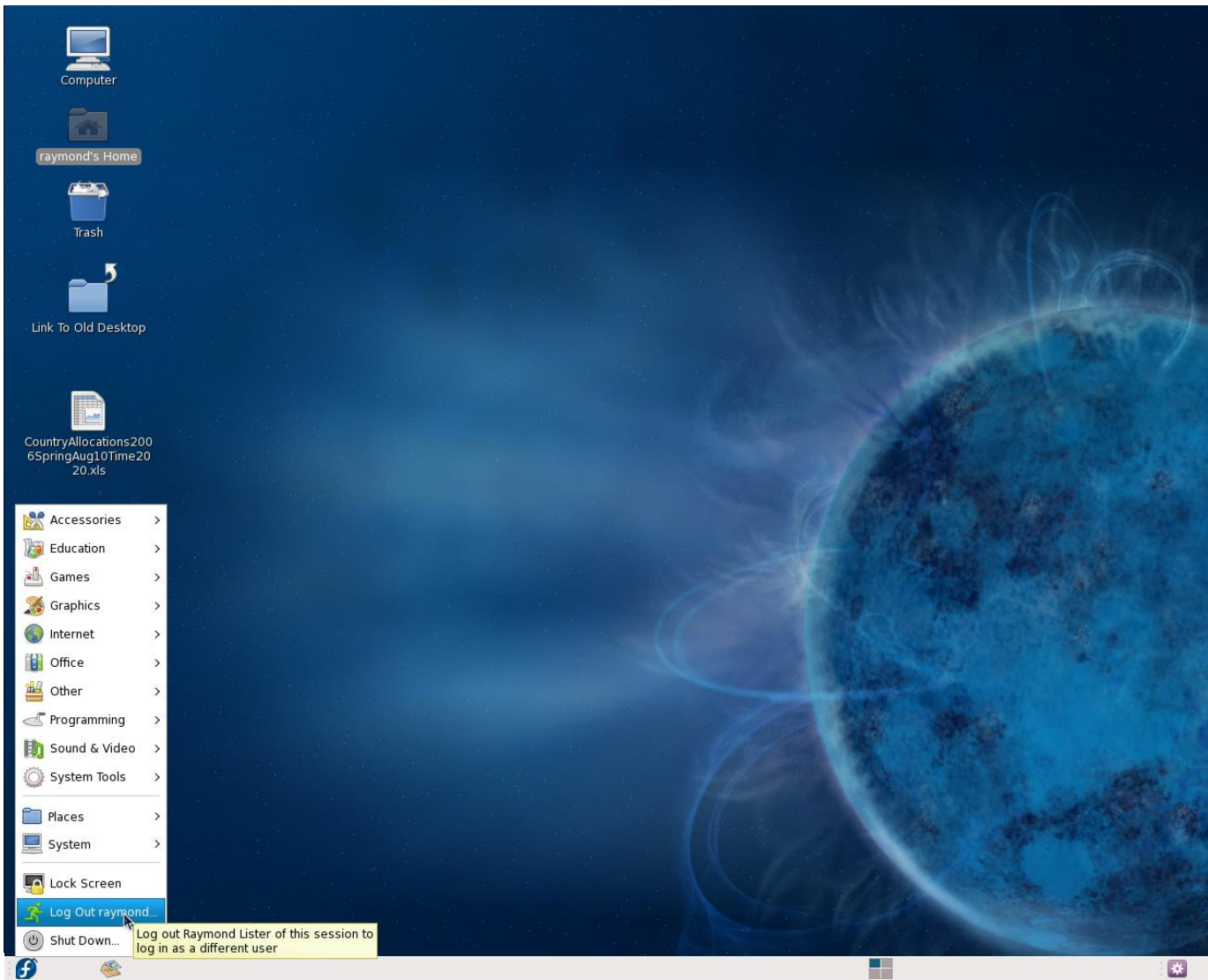
When you finish a session using postgresql, after you have typed `\q` to exit postgresql, you exit the command window by typing “exit”.

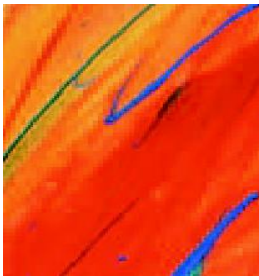
The window will disappear.



Logging out of the machine

And when you are finished a session in the lab, logout from The machine by choosing the “log out” option off menu.

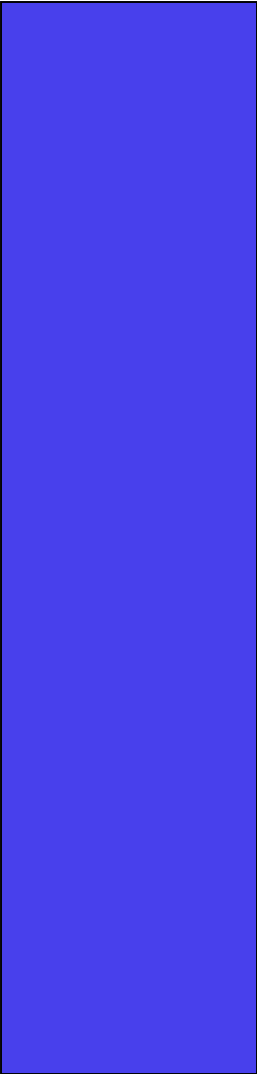




Change PostgreSQL Password



Change PostgreSQL Password



After login to PostgreSQL with your current username and password, use the following command to change your password:

```
ALTER USER "your_user_name" WITH  
PASSWORD 'new_password';
```