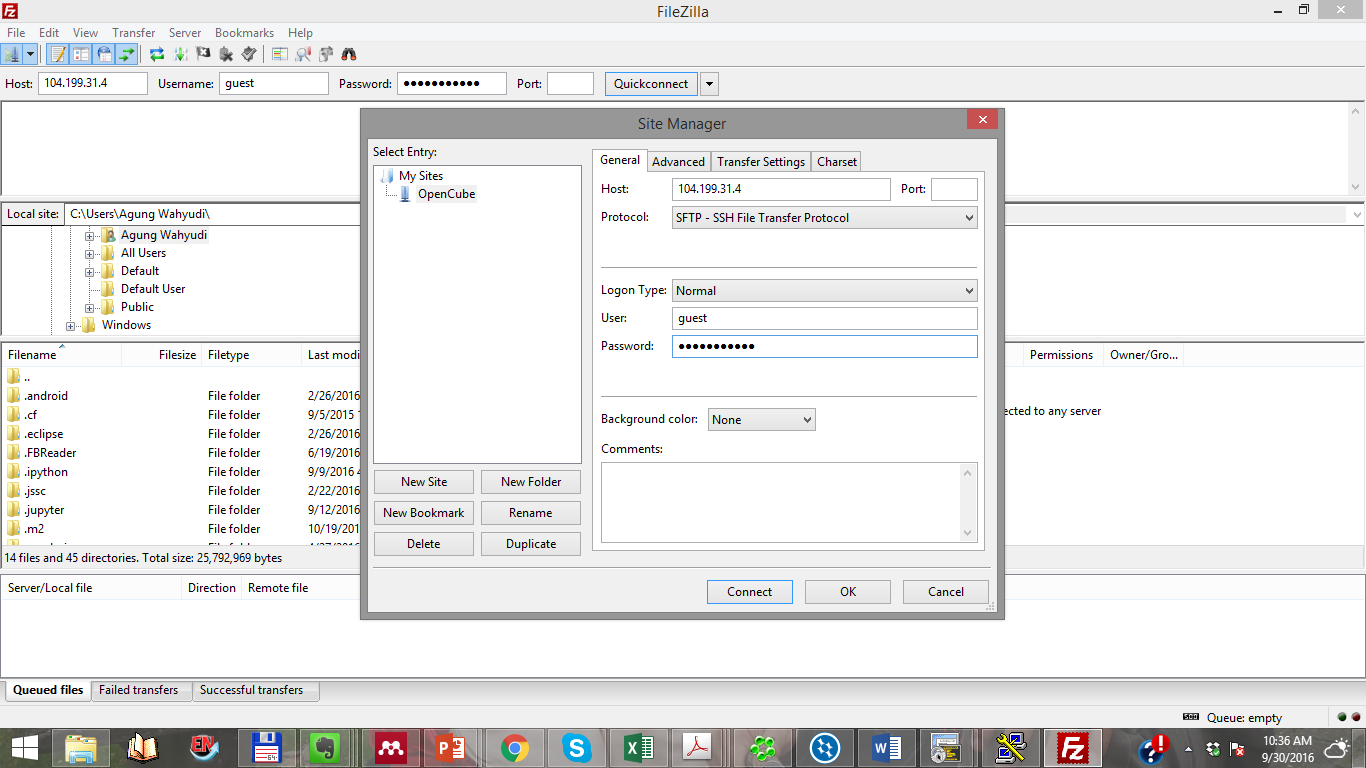
**How to convert your data using OpenCube Tools**

**Pre-requisite**

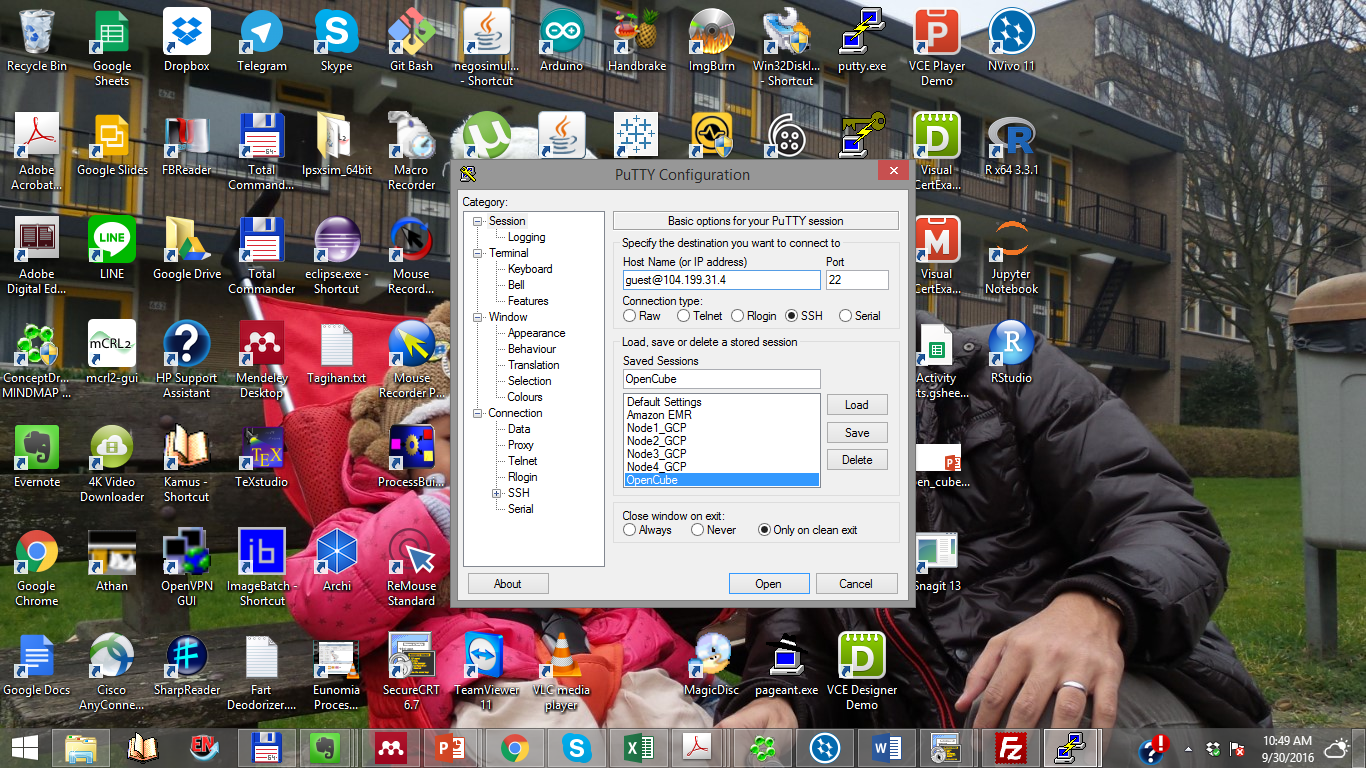
1. Make sure you have ssh client in your computer
   1. Linux/MacOs: just go to [terminal]
   2. Windows: you can install putty (Get putty.exe from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>)
2. Make sure you have sftp client in your computer: install filezilla client (<https://filezilla-project.org/download.php?type=client>), select your OS: Linux/MacOS/Windows
3. Transfer your file to server
   1. Open FileZilla client
   2. File > Site Manager
   3. Create New Site: OpenCube
   4. Enter Host: 104.197.109.186, protocols: SFTP, user: guest, password: tudelft2016



* 1. Connect
  2. Go to folder data and make your own group folder
  3. Transfer your data to the server by dragging the file from left column to right column

**Convert the data using Tarql**

1. Access the server: 104.197.109.186
   1. Username: guest, password: tudelf2016
   2. Linux/MacOS:
      1. ssh guest@104.197.109.186
      2. bash
      3. cd ~
   3. Windows
      1. Open putty
      2. Fill in the form (See Picture)



Fill in the password

* + 1. bash
    2. cd ~

1. Run this command:

Query (Change what is in red (columns – *col1*, etc))

To create query, run on terminal (putty or unix) nano query2.sparql

It will open an edit window, please copy-paste the query below and adjust the columns you want on the RDF, TTL.

PREFIX ex: <http://ex.org/a#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

CONSTRUCT {

?URI a ex:Organization;

ex:permalink ?permalink;

ex:name ?company;

ex:employees ?numEmployees;

ex:category ?category;

ex:city ?city;

ex:state ?state;

ex:fundationDate ?fundedDate;

ex:raisedAmt ?amount;

ex:raisedCurrency ?raisedCurrency;

ex:round ?round;

}

FROM <file:TechCrunchcontinentalUSA.csv>

WHERE {

BIND (URI(CONCAT('http://ex.org/companies/', ?permalink)) AS ?URI)

BIND (xsd:integer(?numEmps) AS ?numEmployees)

BIND (xsd:decimal(?raisedAmt) AS ?amount)

}

Control X to leave

Y to say yes to save

Name again or just let query2.sparql as name

Run this command

* 1. tarql –ntriples query2.sparql /home/guest/data/Group22/exampledata.csv > /home/guest/data/Group22/output\_exampledata.rdf
  2. Any problem, please check <http://tarql.github.io/>

1. Download the output [e.g. \*.rdf] using Filezilla client

**Convert the data using Grafter**

1. Access the server: 104.197.109.186 (same as step 1 using tarql)
2. Make your own project by running this command:
   1. lein new grafter [group\_name], e.g. lein new grafter group1
   2. Access your project folder: cd [group\_name], e.g. cd group1
3. Make your own data graph first (See <http://grafter.org/getting-started/030-understanding-pipes.html> for details)
   1. Download the template using Filezilla client: [/home/guest/[group\_name]/src/[group\_name]/pipeline.clj
   2. Modify pipeline.clj based on your objective (add new graph, e.g. new\_graph to the existing body of pipeline.clj)
   3. Change the name, e.g. pipeline\_mod.clf
   4. Upload the file using Filezilla to previous folder
4. Make the rdf by running this command:
   1. lein grafter run [group\_name].[pipeline\_name]/[graph\_name] /home/guest/data/your\_folder/your\_input.csv /home/guest/data/your\_folder/your\_output.rdf
   2. Download your output file using Filezilla client