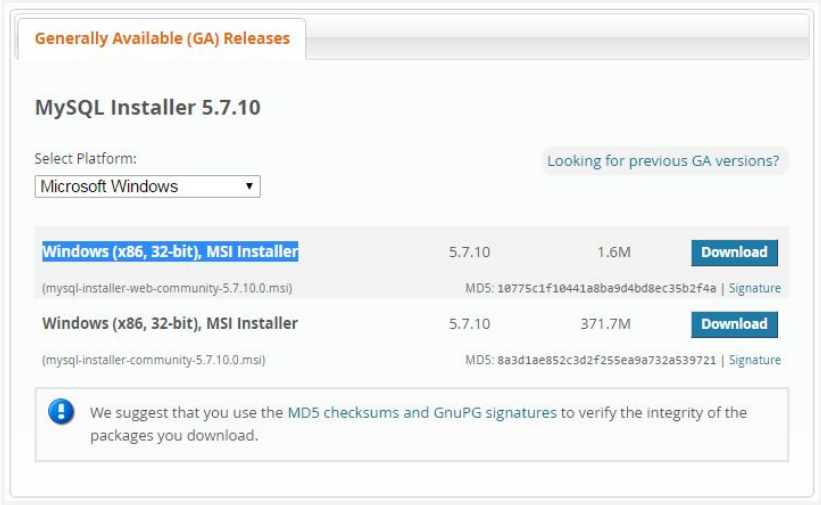
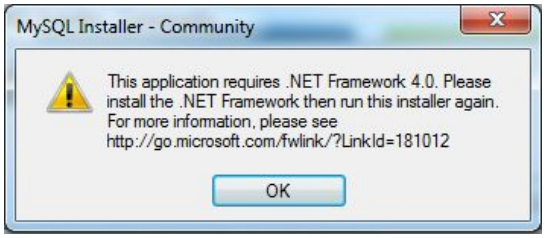
Setting Up an ETL Environment

Install MySQL Server

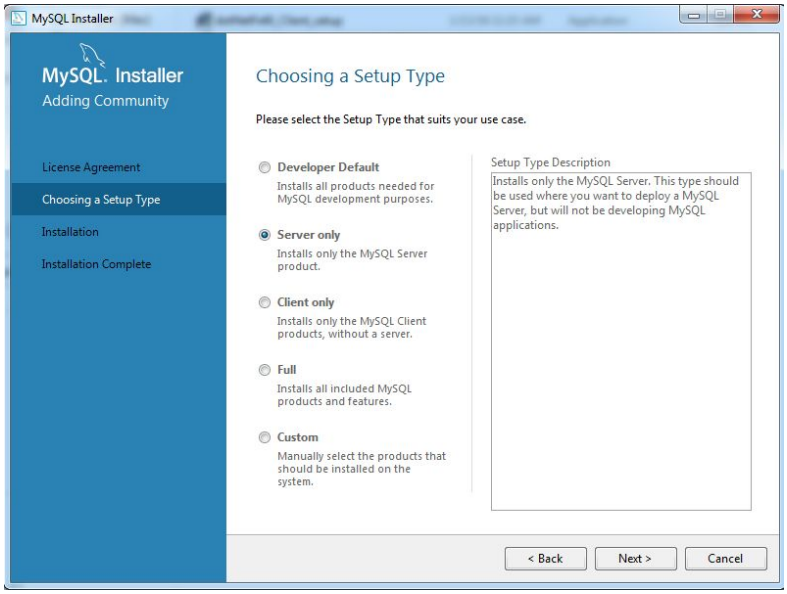
1. http://dev.mysql.com/downloads/ → MySQL on Windows (Installer & Tools) → MySQL Installer → **Windows (x86, 32-bit), MSI Installer**



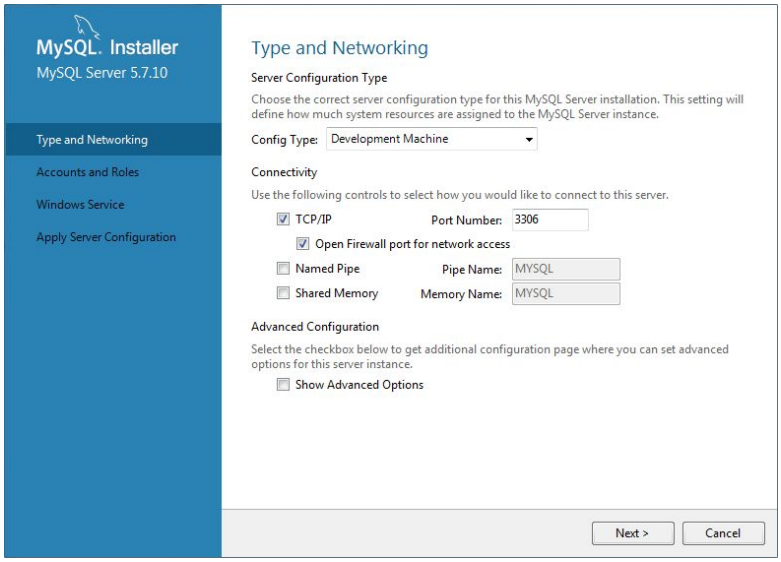
2. (*Optional*) “No thanks, just start my download”
3. If may need to install .NET Framework if not already installed on your Windows:



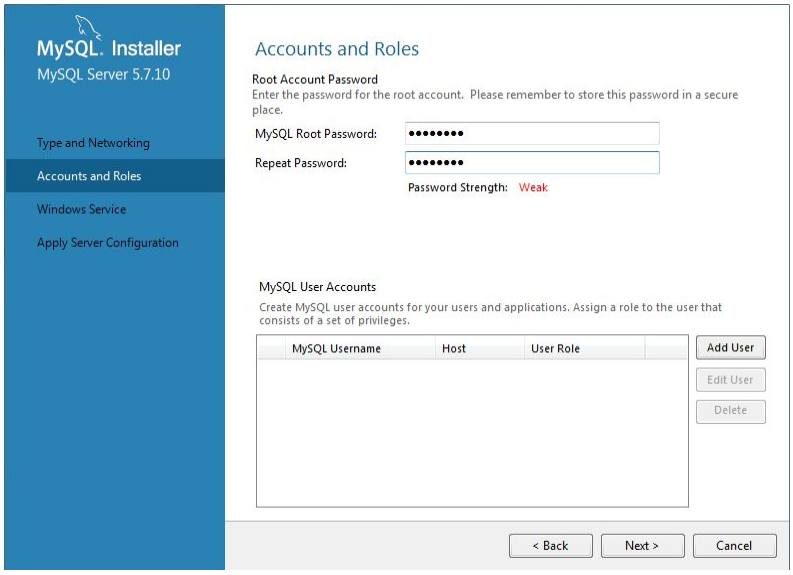
4. Run the MySQL Installer



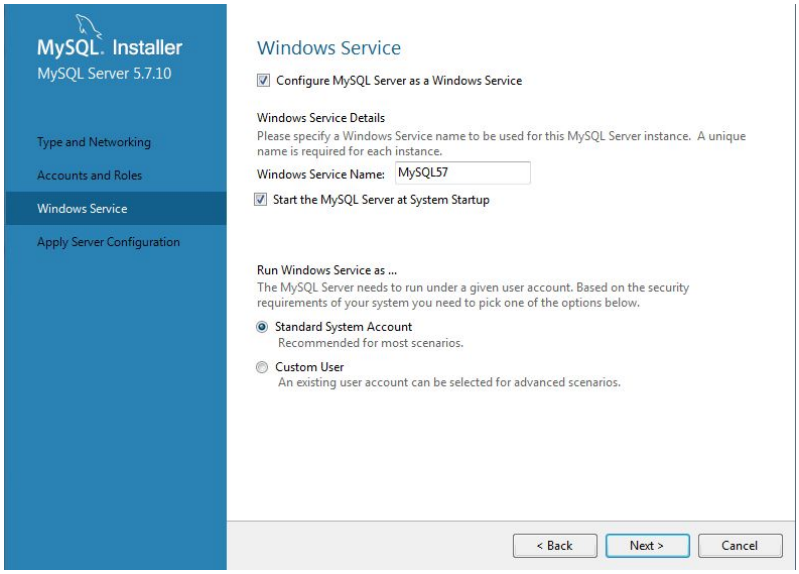
Select the “Server only” option.



Leave the defaults as they are.



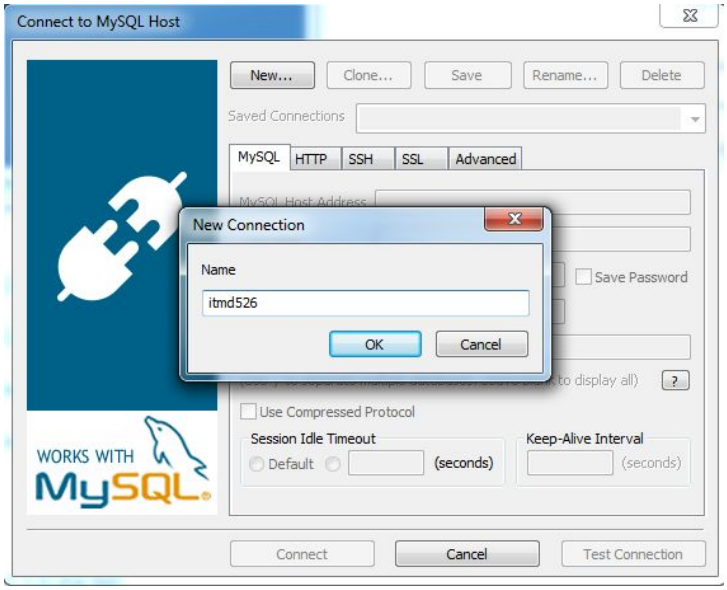
Make sure you don't forget the root password!



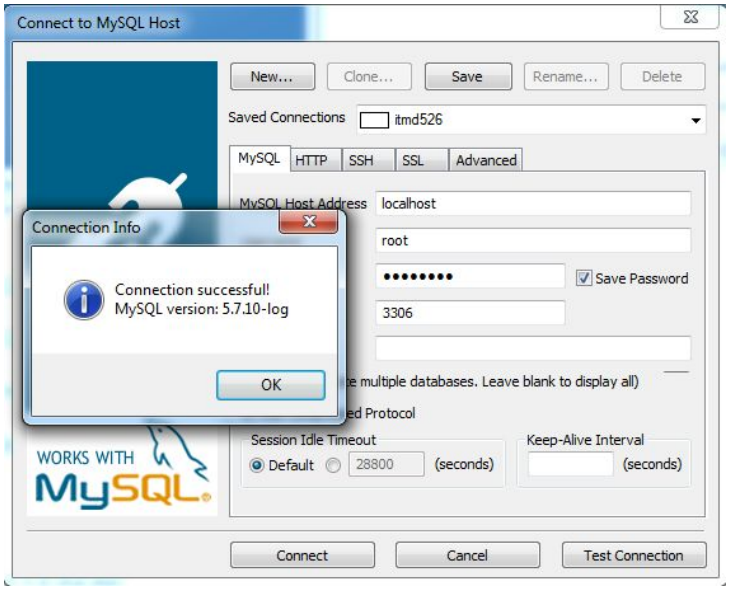
Leave the defaults as they are unless you are familiar with MySQL administration.

MySQL GUI Tools

1. SQLYog: https://github.com/webyog/sqlyog-community → "Download SQLyog Community Version" → "SQLYog Community Edition - 12.x.x (??-Bit)" → Run the installer (use the defaults).



Create a new connection called “itmd526”.



Enter the password and test the connection via the “Test Connection” button. Save the connection via the “Save” button. Then, connect to the server via the “Connect” button.

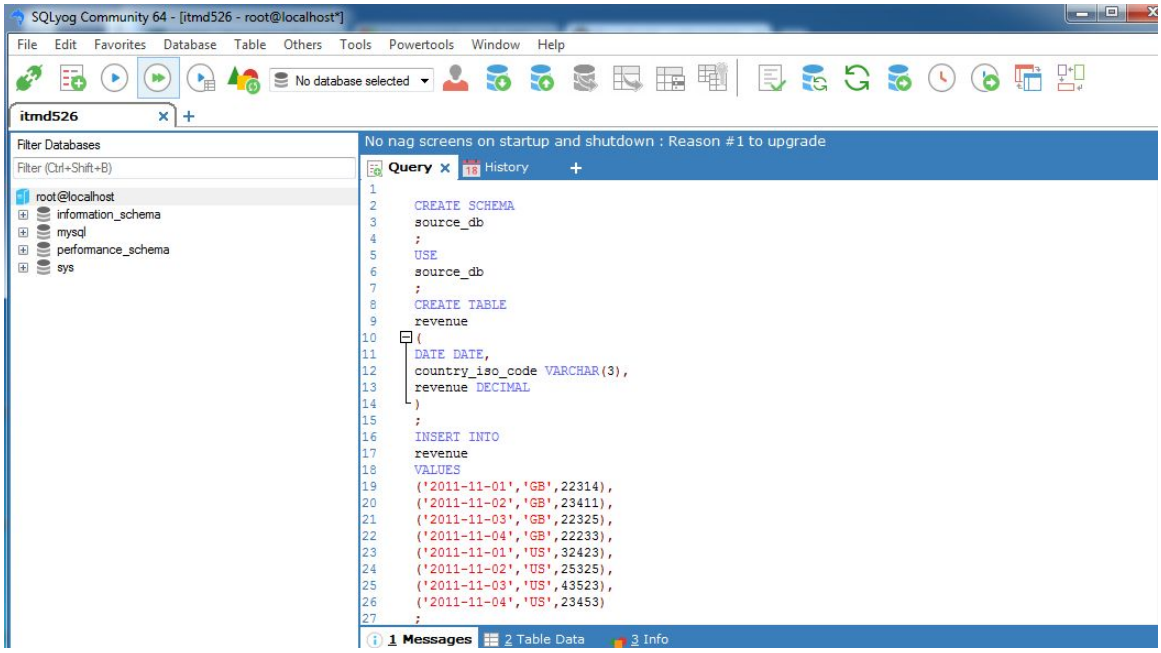
Copy and paste the script below and execute  .

```
CREATE SCHEMA
source_db
;
USE
source_db
;
```

```
CREATE TABLE
revenue
(
date DATE,
country_iso_code VARCHAR(3),
revenue DECIMAL
)
;
INSERT INTO
revenue
VALUES
('2011-11-01','GB',22314),
('2011-11-02','GB',23411),
('2011-11-03','GB',22325),
('2011-11-04','GB',22233),
('2011-11-01','US',32423),
('2011-11-02','US',25325),
('2011-11-03','US',43523),
('2011-11-04','US',23453)
;


CREATE TABLE
Countries
(
country_iso_code VARCHAR(3),
country_name VARCHAR(100)
)
;
INSERT INTO
Countries
VALUES
('GB','United Kingdom'),
('US','United States of America')
;

CREATE SCHEMA
target_db
;
```



Refresh the Browser Objects  and make sure you see the new databases, source_db & target_db, created.

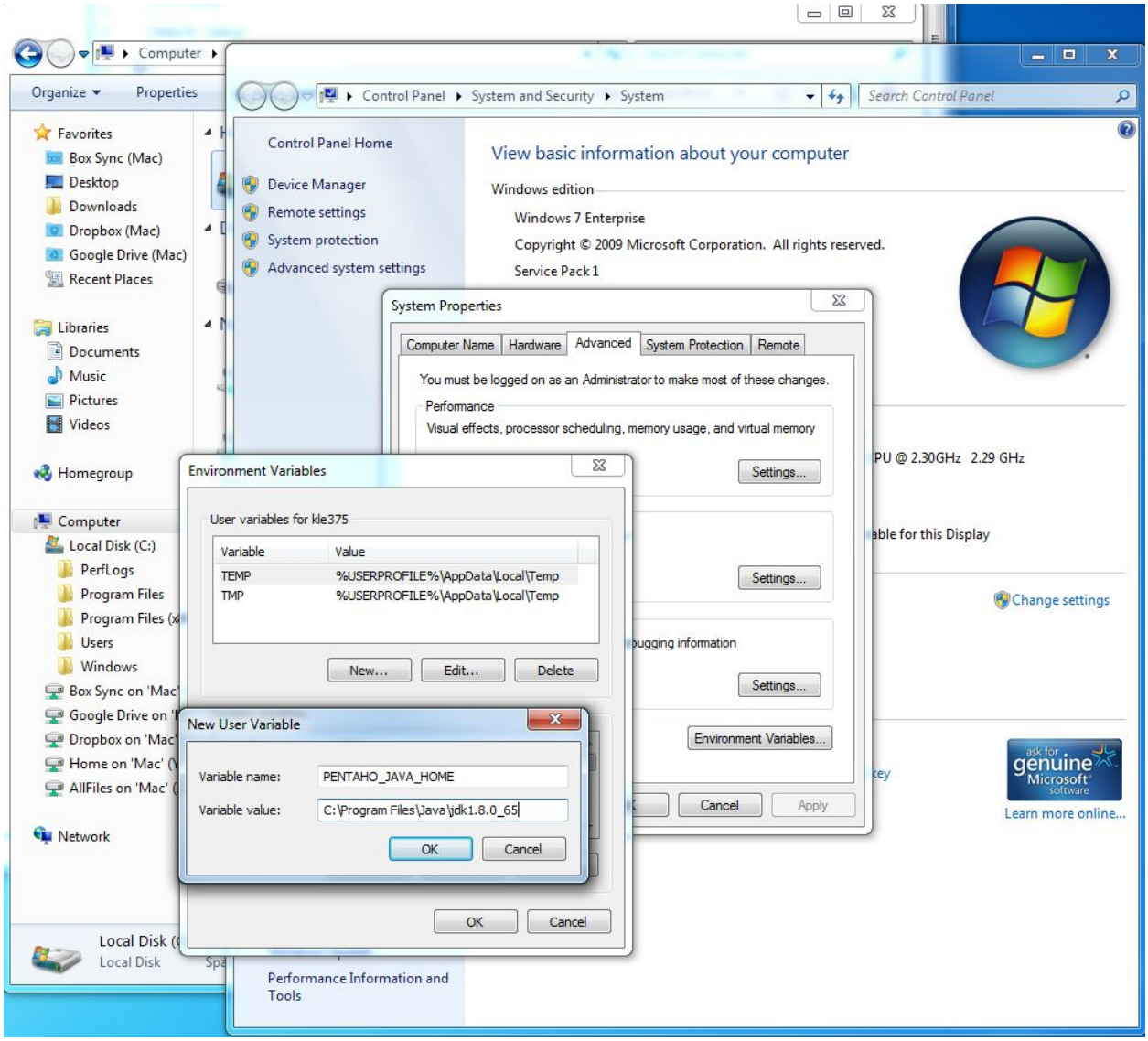
2. (*Optional*) MySQL Workbench (using MySQL - Installer Community)

Install Pentaho Kettle 5.4

Web references:

- https://help.pentaho.com/Documentation/5.4/0F0/0H0 (Install Only DI Tools)
- https://www.youtube.com/watch?v=OGx7qRHXui8 (brief video)

1. Make your computer has JDK or JRE installed (java -version) and set the PENTAHO_JAVA_HOME as a environment variable pointing to the java directory.



2. Download: http://sourceforge.net/projects/pentaho/files/Data%20Integration/5.4/

Add MySQL Driver

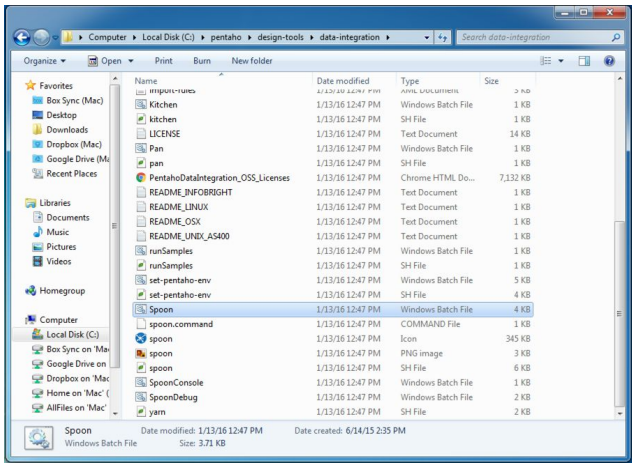
For the Kettle to be able to connect to the MySQL server installed, a MySQL JDBC driver needs to be added to the library folder following the steps below:

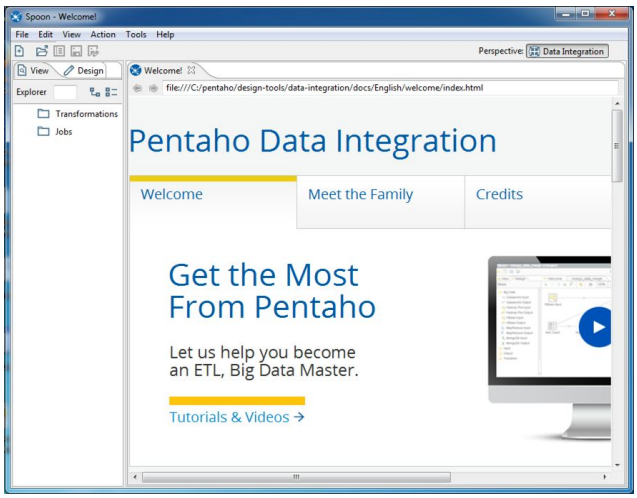
1. *Download* the **Latest MySQL Java Connector / Driver (http://dev.mysql.com/downloads/connector/j/)**
2. *Unzip* the **zip** file (in my case it was **mysql-connector-java-5.1.31.zip**)

3. *copy* the **.jar** file (**mysql-connector-java-5.1.31-bin.jar**) and *paste* it in your **Lib** folder:
4. **PC:** C:\Program Files\pentaho\design-tools\data-integration\lib
5. **Mac:** /Applications/data-integration/lib

Start Spoon (Kettle's GUI)

1. Go to folder **C:\pentaho\design-tools\data-integration**
2. Double click the Spoon.bat





Next Steps…(in class demonstration)

1. The first ETL transformation demo
2. Creating a repository for PDI Samples

End.