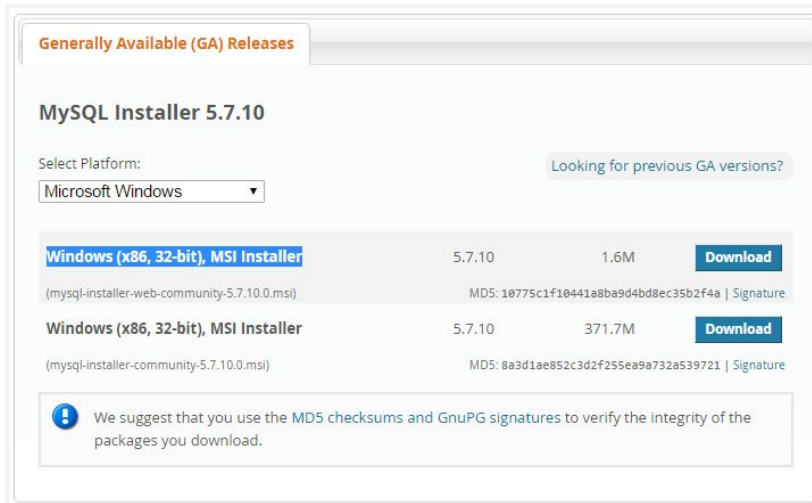


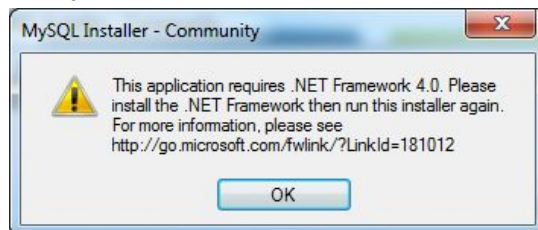
Setting Up an ETL Environment

Install MySQL Server

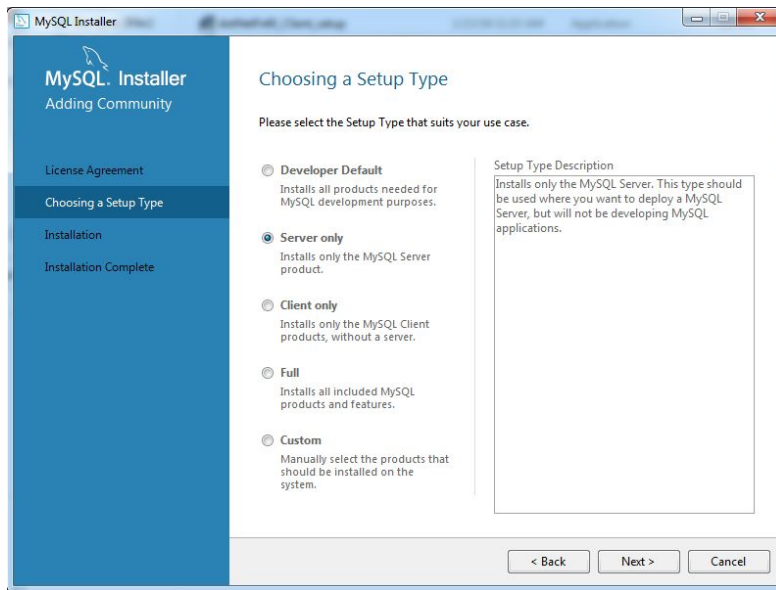
1. <http://dev.mysql.com/downloads/> → MySQL on Windows (Installer & Tools) → MySQL Installer → Windows (x86, 32-bit), MSI Installer



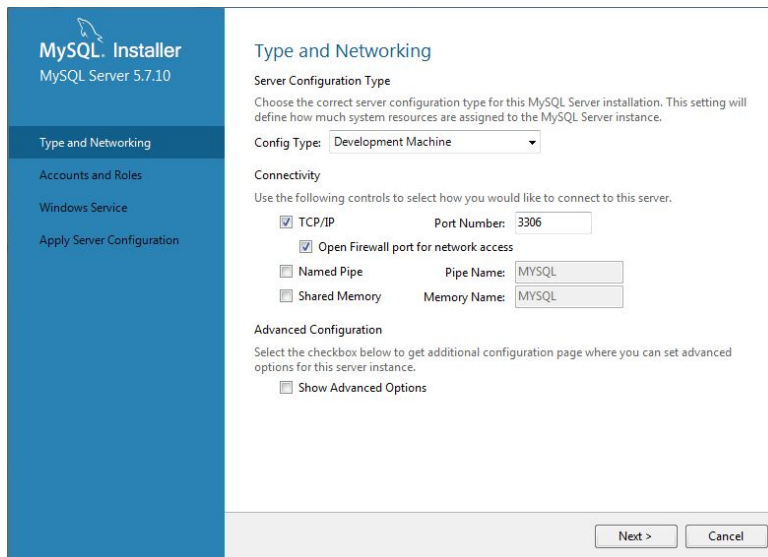
2. (Optional) "No thanks, just start my download"
3. If may need to install .NET Framework if not already installed on your Windows:



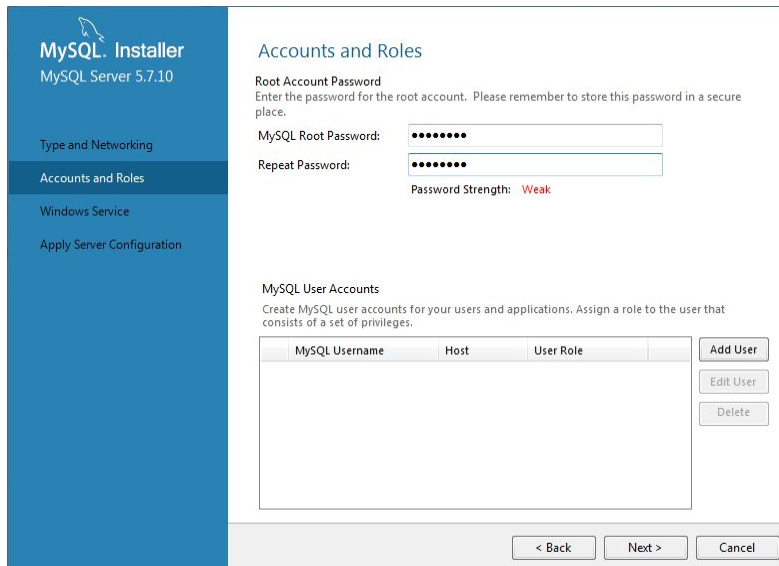
4. Run the MySQL Installer



Select the “Server only” option.



Leave the defaults as they are.



MySQL. Installer
MySQL Server 5.7.10

- Type and Networking
- Accounts and Roles**
- Windows Service
- Apply Server Configuration

Accounts and Roles

Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password:

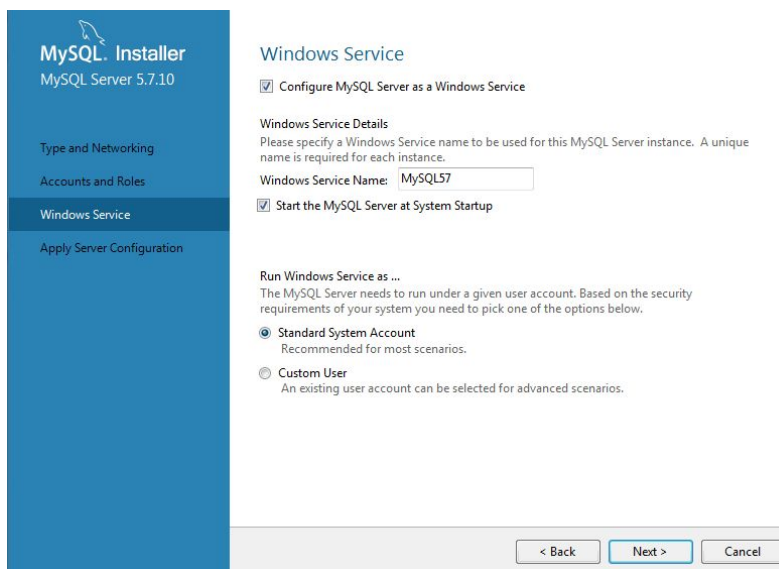
Repeat Password:

Password Strength: **Weak**

MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL Username	Host	User Role

Make sure you don't forget the root password!



MySQL. Installer
MySQL Server 5.7.10

- Type and Networking
- Accounts and Roles
- Windows Service**
- Apply Server Configuration

Windows Service

☒ Configure MySQL Server as a Windows Service

Windows Service Details
Please specify a Windows Service name to be used for this MySQL Server instance. A unique name is required for each instance.

Windows Service Name:

☒ Start the MySQL Server at System Startup

Run Windows Service as ...
The MySQL Server needs to run under a given user account. Based on the security requirements of your system you need to pick one of the options below.

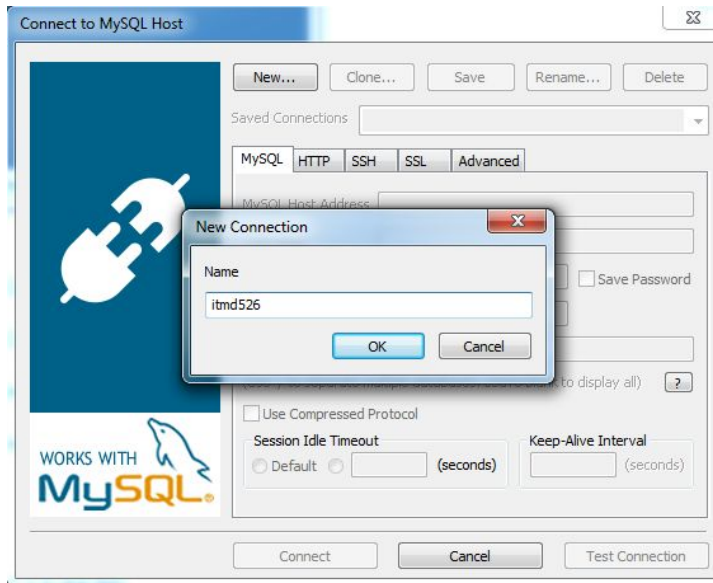
☒ **Standard System Account**
Recommended for most scenarios.

☐ **Custom User**
An existing user account can be selected for advanced scenarios.

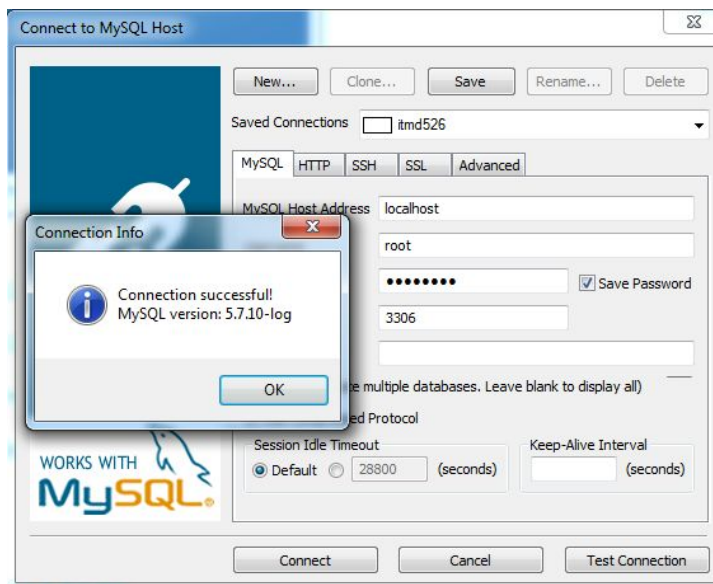
Leave the defaults as they are unless you are familiar with MySQL administration.

MySQL GUI Tools

1. SQLYog: <https://github.com/webbyog/sqllyog-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

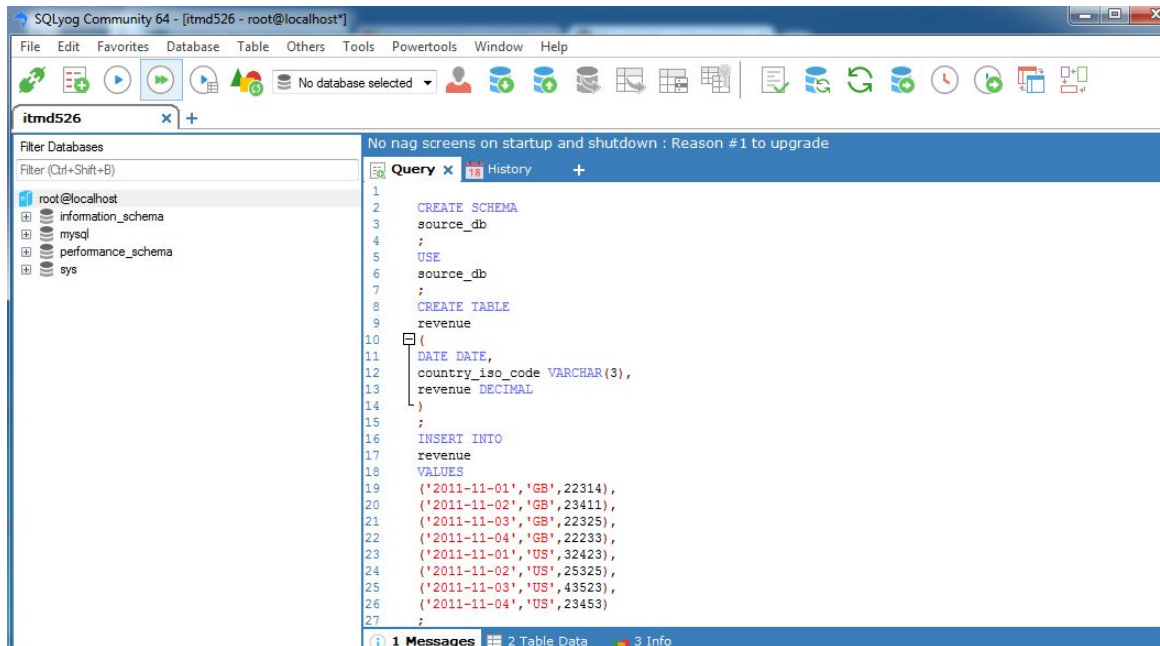



```
CREATE SCHEMA
source_db
;
USE
source_db
;
```

```
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.

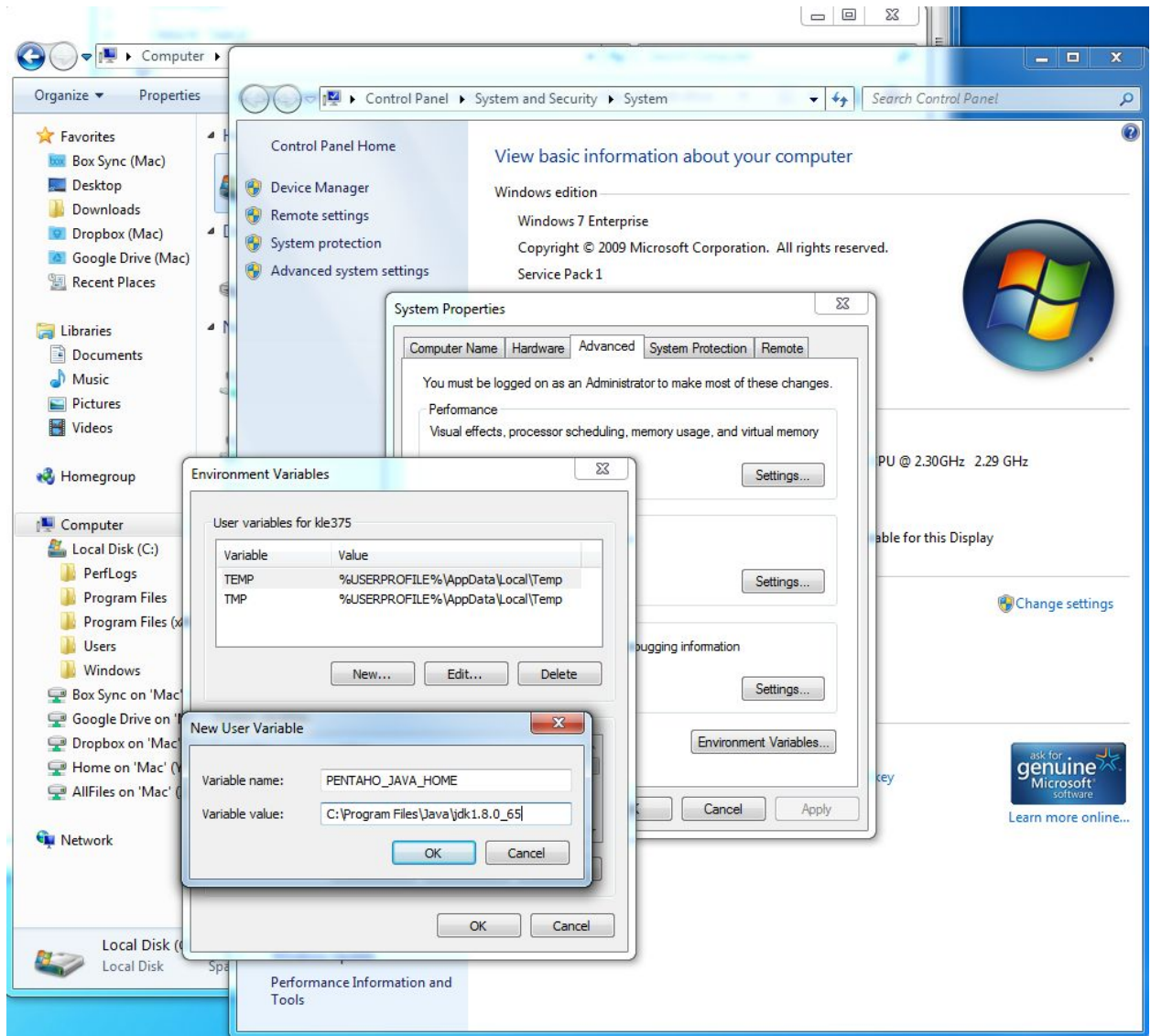
2. (Optional) MySQL Workbench (using MySQL - Installer Community)

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

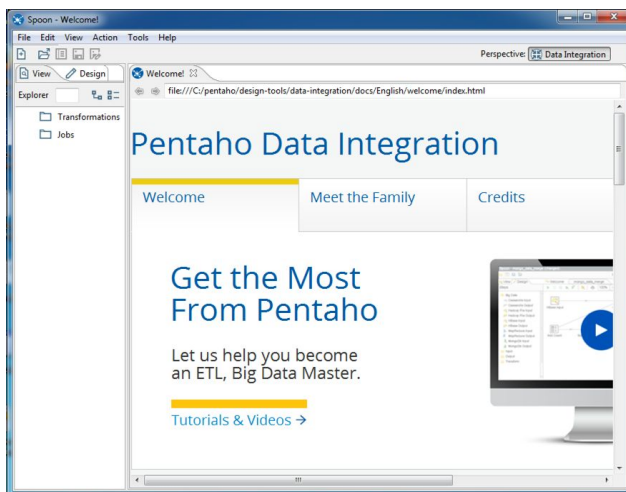
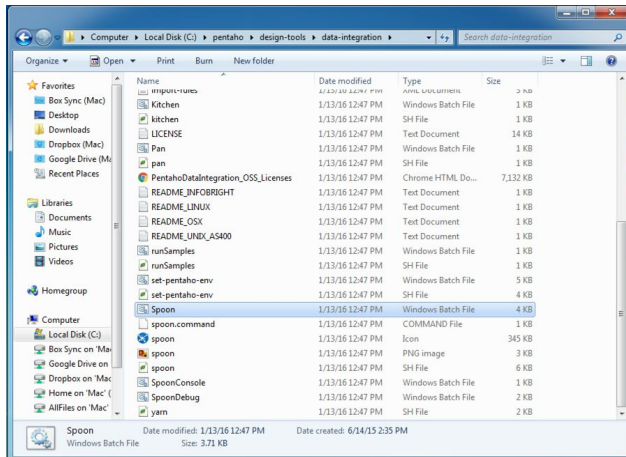
For the Kettle to be able to connect to the MySQL server installed, a MySQL JDBC driver needs to be added to the library folder following the steps below:

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.