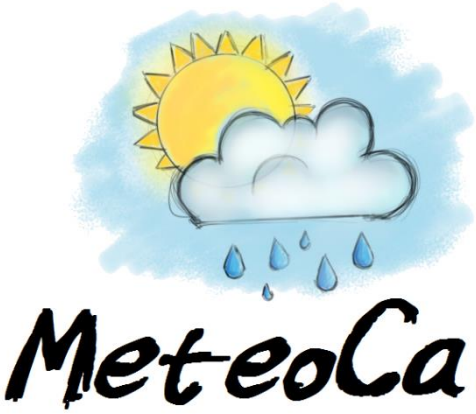

January 25th, 2014

Politecnico Di Milano

Computer Science

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- ***Alessandro Cimbelli***
- ***Alessandro De Angelis***

Installation Guide

We followed Prof. Miglierina guide (can be found here)

What you need to download:

1)We used JAVA 7 , downloadable ***here***

2)Server used for The system is Glassfish 4.1 , downloadable ***here***

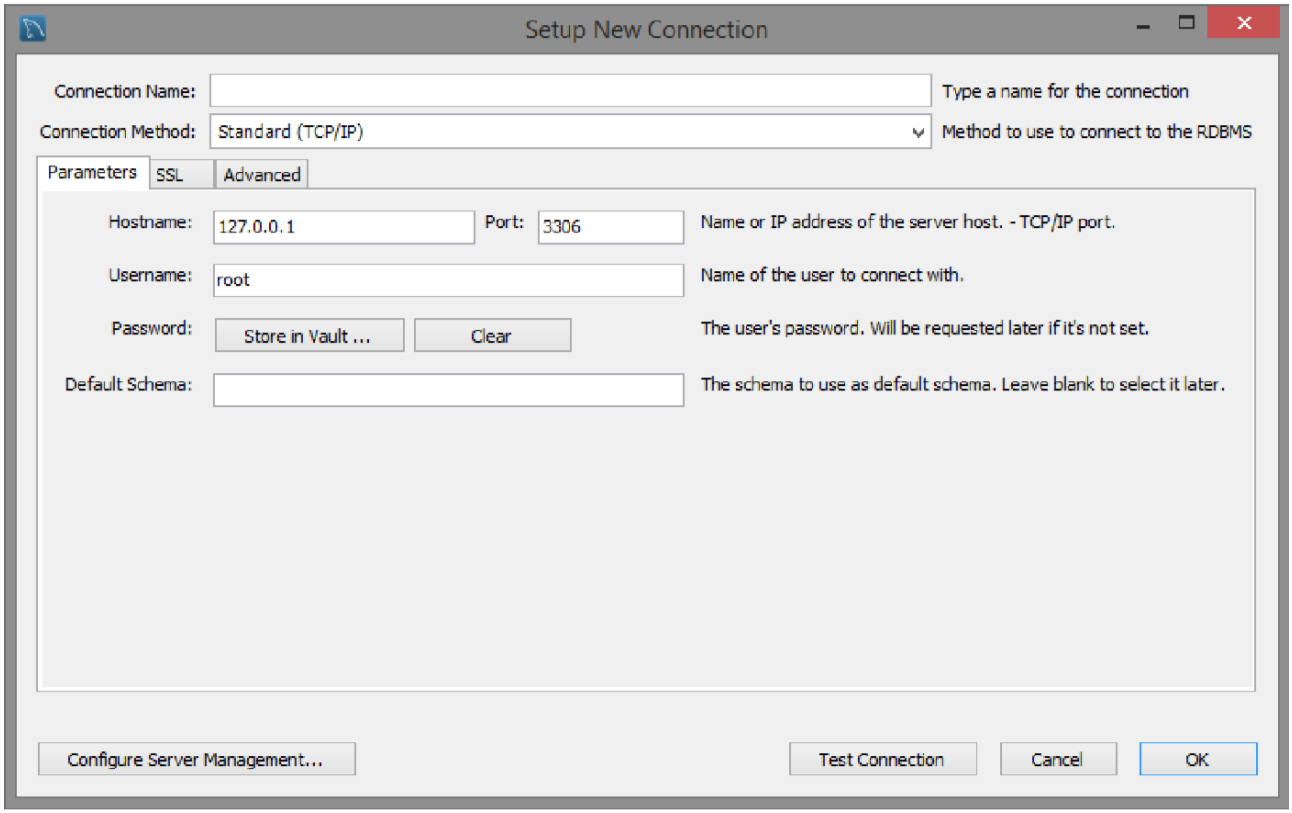
3)For the Database , SQL is needed, downloadable ***here***

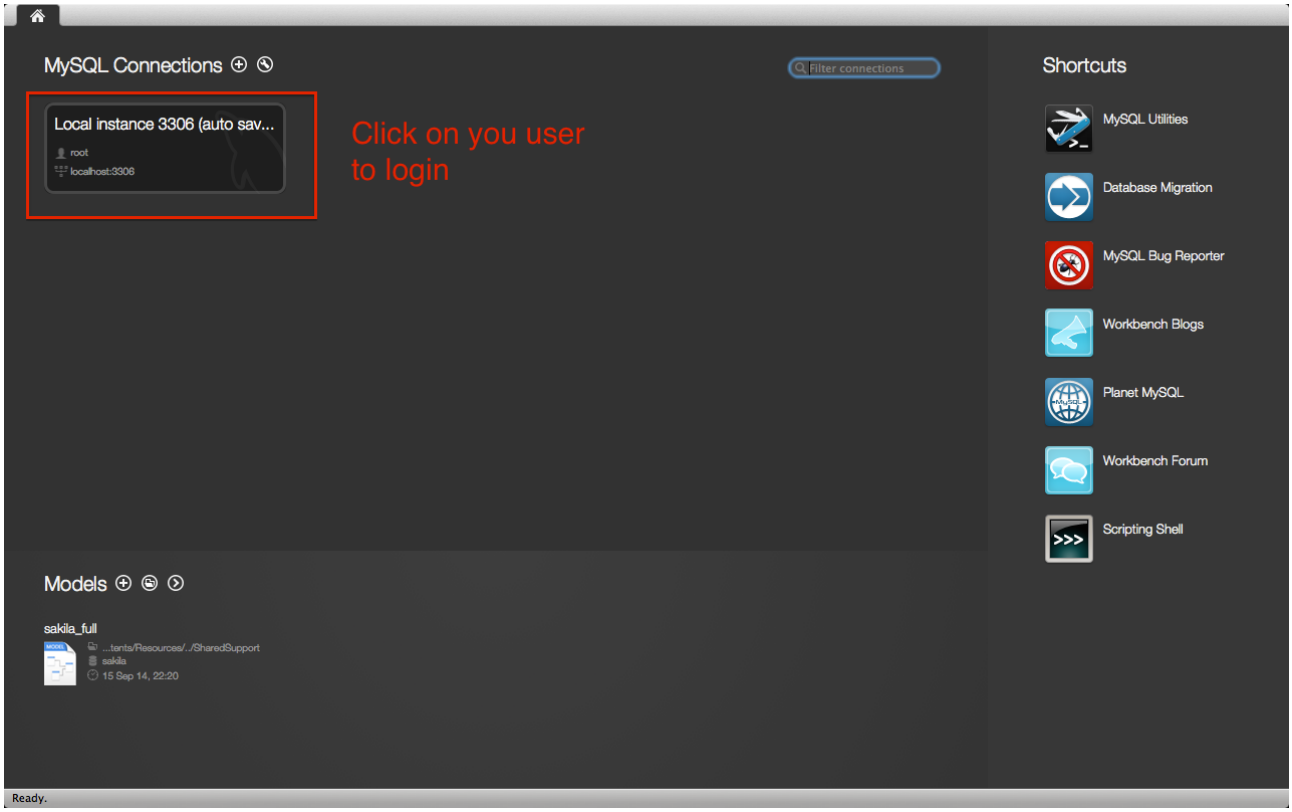
4) jdbc connector , downloadable ***here***

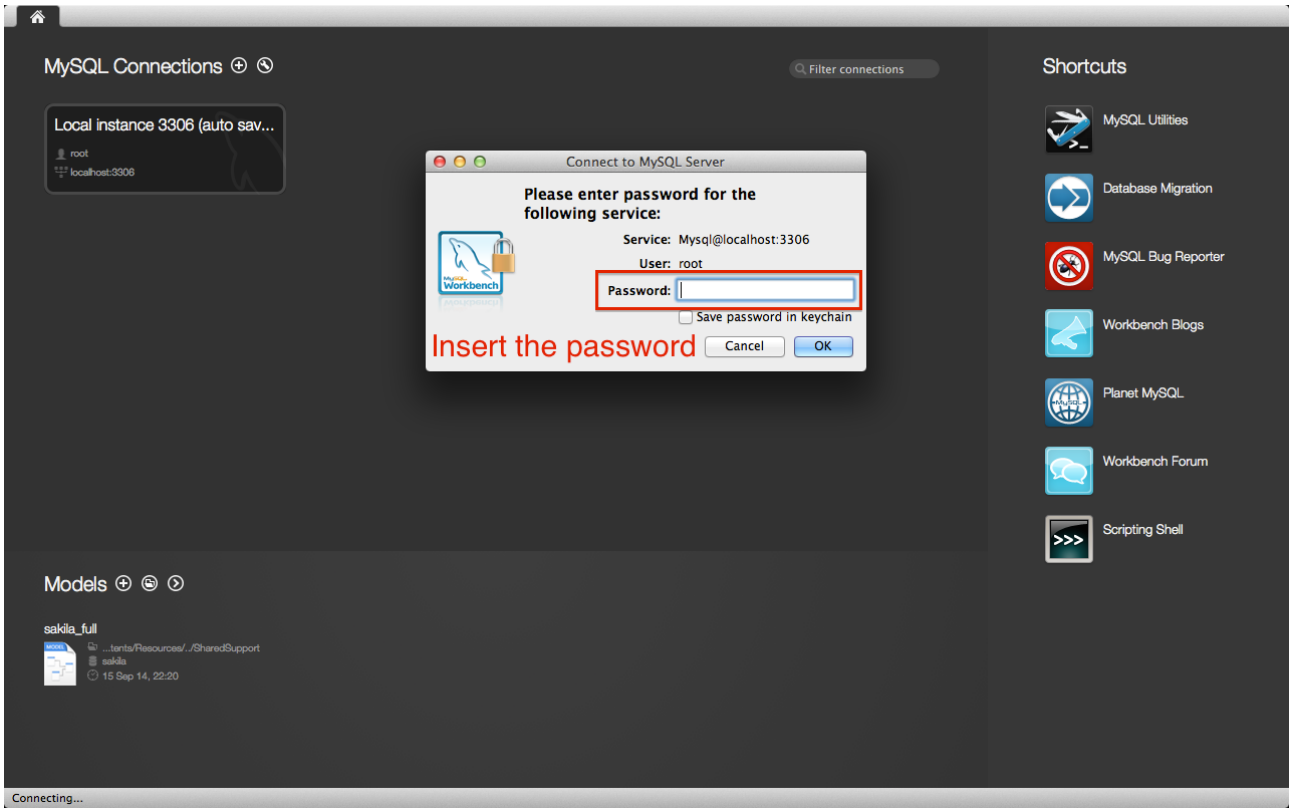
Instructions

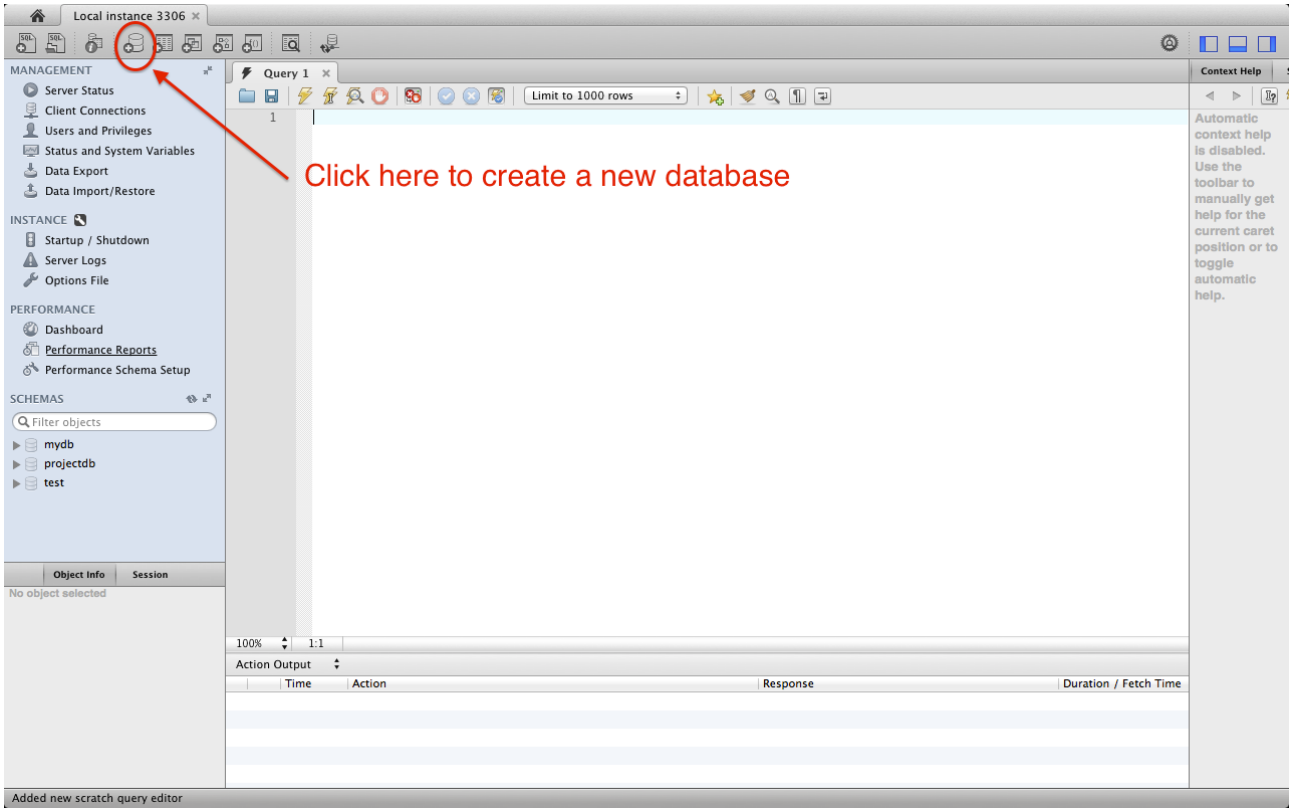
- **Db installation and creation**

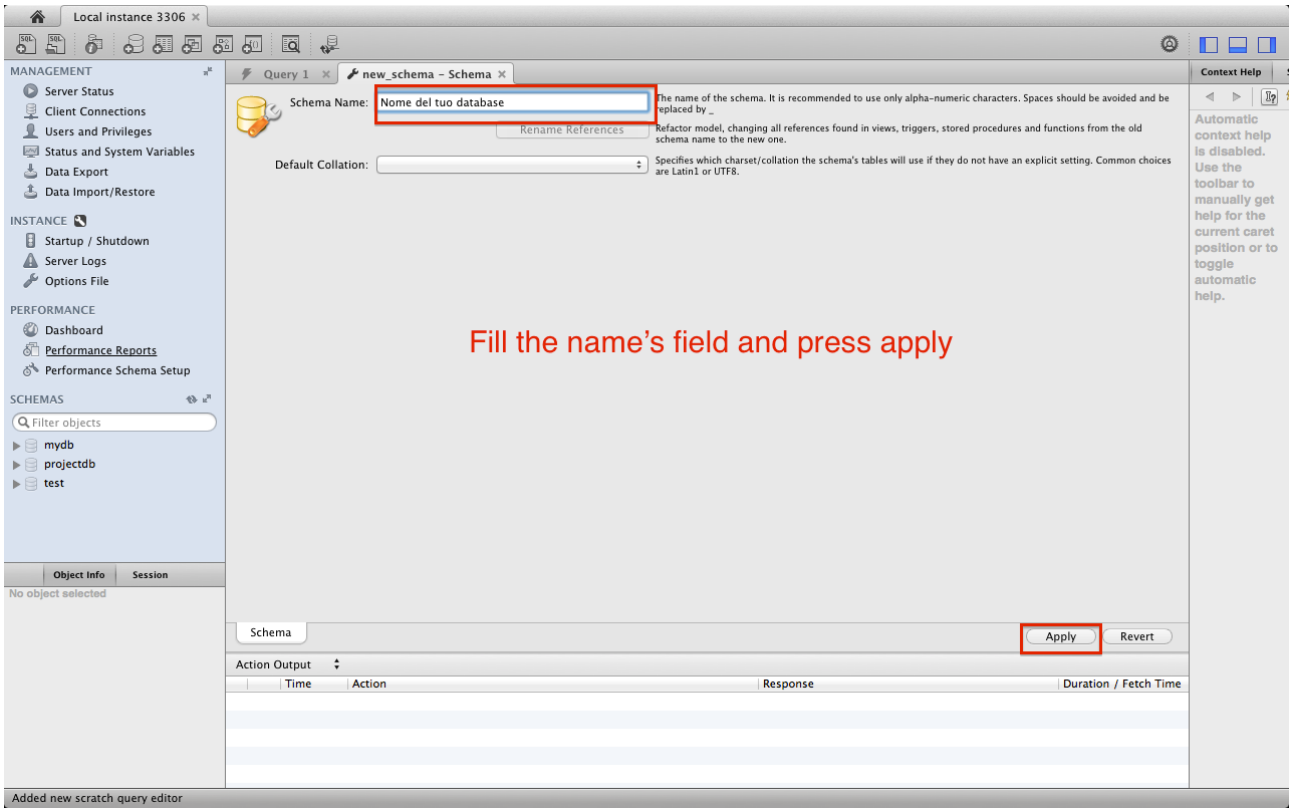
After the installation of SQL workbench open it. click on "+"and create new connection




MySQL Connections
Filter connections
Local instance 3306 (auto sav...
root
localhost:3306
Click on you user
to login
Shortcuts
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Models
sakila_full
...tents/Resources/../SharedSupport
sakila
15 Sep 14, 22:20
Ready.


MySQL Connections
Filter connections
Local instance 3306 (auto sav...
root
localhost:3306
Connect to MySQL Server
Please enter password for the
following service:
Service: Mysql@localhost:3306
User: root
Password:
Save password in keychain
Insert the password
Cancel
OK
Shortcuts
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
Models
sakila_full
...tents/Resources/../SharedSupport
sakila
15 Sep 14, 22:20
Connecting...


Local instance 3306
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
mydb
projectdb
test
Object Info
Session
No object selected
Query 1
Limit to 1000 rows
Click here to create a new database
Context Help
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
100%
1:1
Action Output
Time
Action
Response
Duration / Fetch Time
Added new scratch query editor


Local instance 3306
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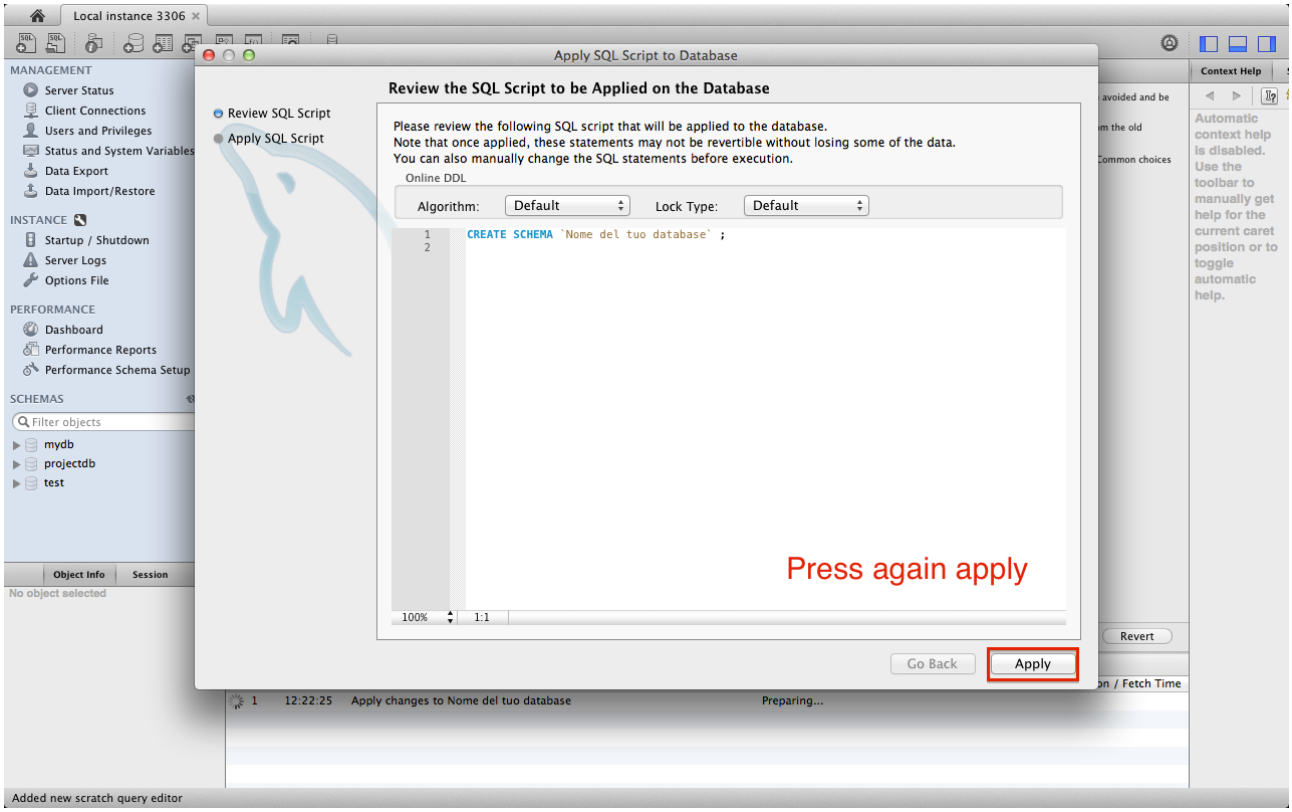
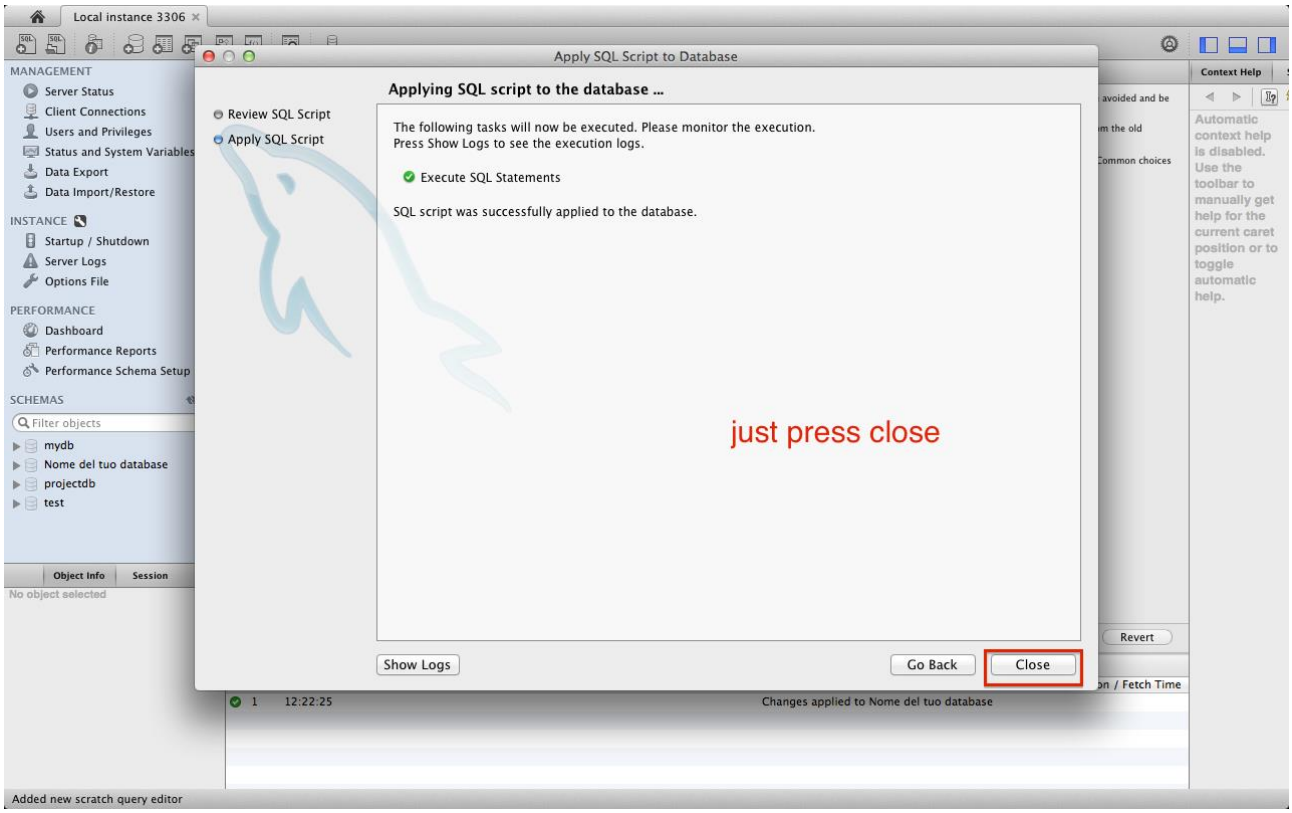
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
mydb
projectdb
test
Object Info
Session
No object selected
Query 1
new_schema - Schema
Schema Name:
Nome del tuo database
The name of the schema. It is recommended to use only alpha-numeric characters. Spaces should be avoided and be replaced by _
Rename References
Refactor model, changing all references found in views, triggers, stored procedures and functions from the old schema name to the new one.
Default Collation:
Specifies which charset/collation the schema's tables will use if they do not have an explicit setting. Common choices are Latin1 or UTF8.
Fill the name's field and press apply
Schema
Apply
Revert
Context Help
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Action Output
Time
Action
Response
Duration / Fetch Time
Added new scratch query editor


Local instance 3306
Apply SQL Script to Database
Review the SQL Script to be Applied on the Database
Review SQL Script
Apply SQL Script
Please review the following SQL script that will be applied to the database.
Note that once applied, these statements may not be revertible without losing some of the data.
You can also manually change the SQL statements before execution.
Online DDL
Algorithm: Default
Lock Type: Default
CREATE SCHEMA `Nome del tuo database` ;
Press again apply
Go Back
Apply
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
mydb
projectdb
test
Object Info
Session
No object selected
Context Help
Revert
1 12:22:25 Apply changes to Nome del tuo database Preparing...
Added new scratch query editor


Local instance 3306
Apply SQL Script to Database
Applying SQL script to the database ...
Review SQL Script
Apply SQL Script
The following tasks will now be executed. Please monitor the execution.
Press Show Logs to see the execution logs.
Execute SQL Statements
SQL script was successfully applied to the database.
just press close
Show Logs
Go Back
Close
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
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INSTANCE
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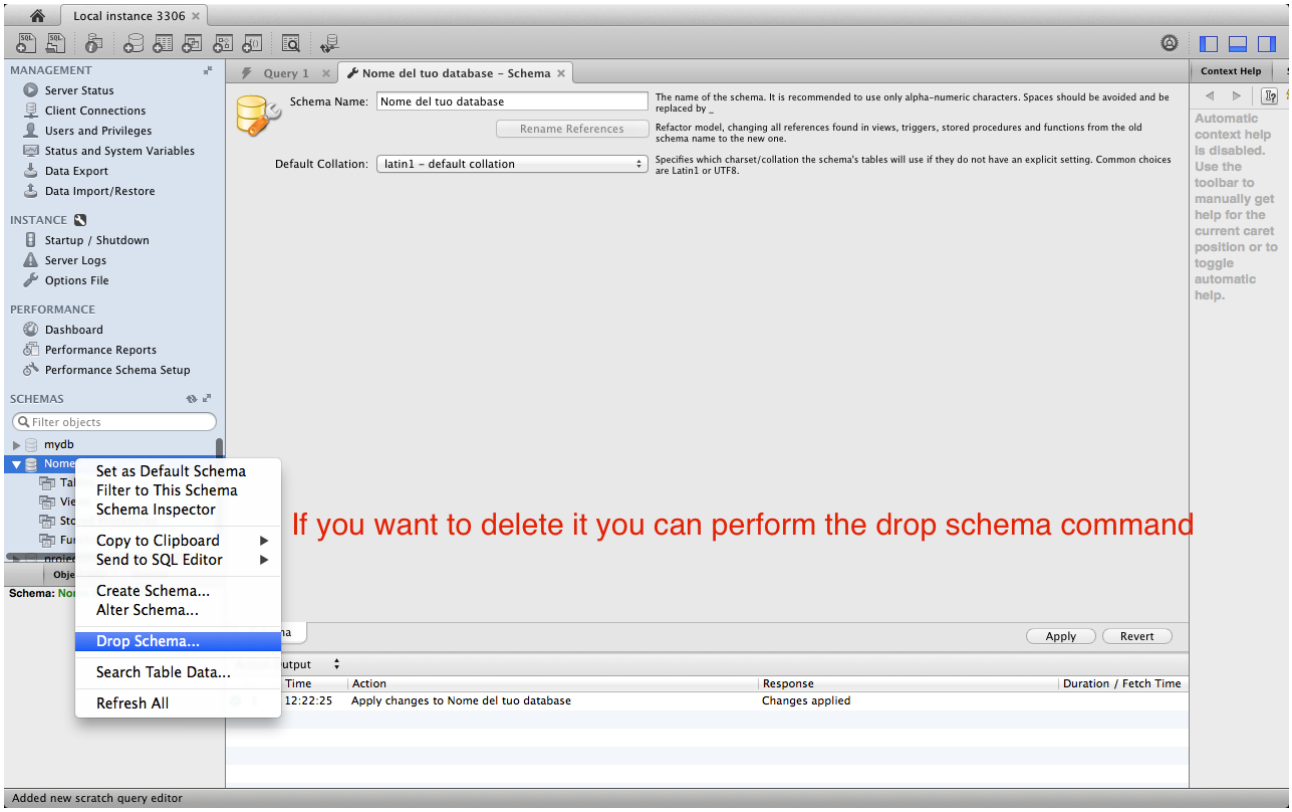
Performance Schema Setup
SCHEMAS
Filter objects
mydb
Nome del tuo database
projectdb
test
Object Info
Session
No object selected
Context Help
Revert
1 12:22:25 Changes applied to Nome del tuo database
Added new scratch query editor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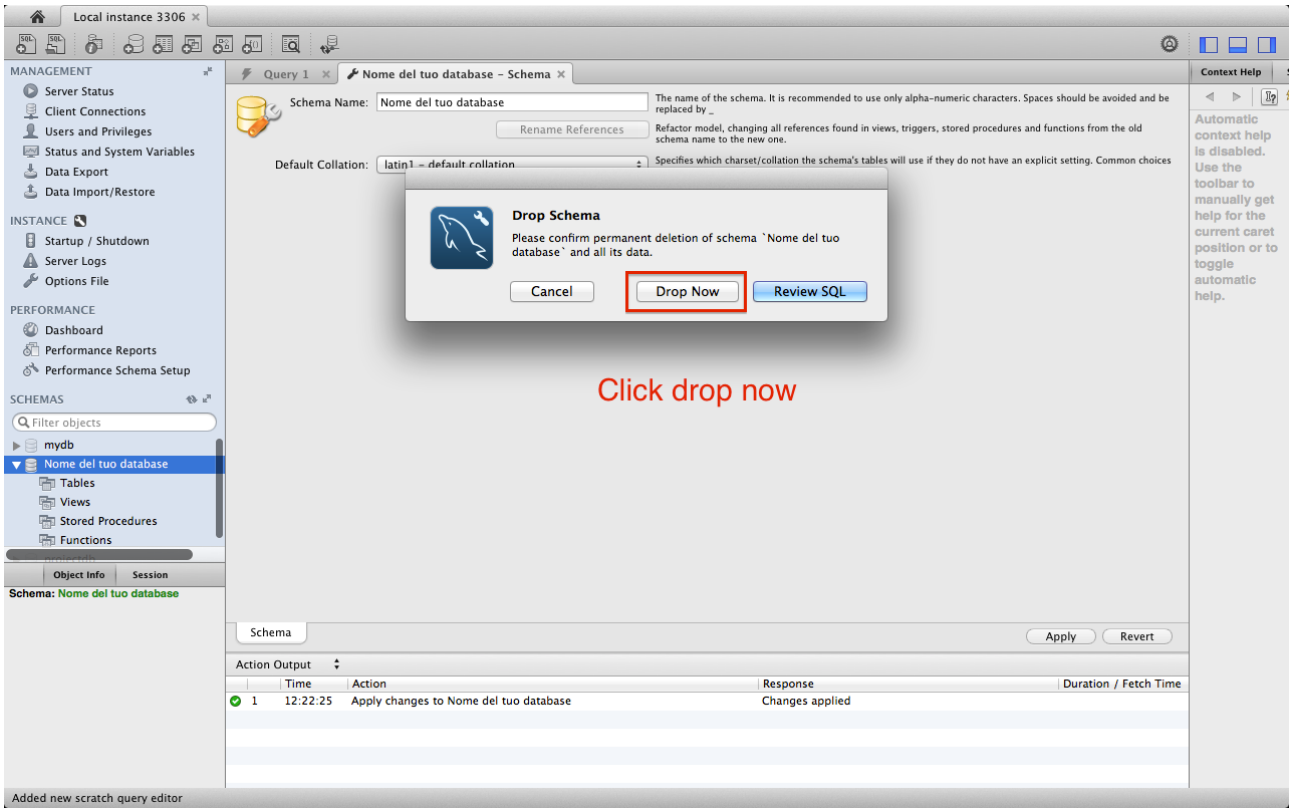
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
mydb
Nome
Set as Default Schema
Filter to This Schema
Schema Inspector
Copy to Clipboard
Send to SQL Editor
Create Schema...
Alter Schema...
Drop Schema...
Search Table Data...
Refresh All
Query 1
Nome del tuo database - Schema
Schema Name:
Nome del tuo database
Rename References
Default Collation:
latin1 - default collation
Context Help
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
If you want to delete it you can perform the drop schema command
Apply
Revert
Time
Action
Response
Duration / Fetch Time
12:22:25
Apply changes to Nome del tuo database
Changes applied
Added new scratch query editor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PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
SCHEMAS
Filter objects
mydb
Nome del tuo database
Tables
Views
Stored Procedures
Functions
Object Info
Session
Schema: Nome del tuo database
Query 1
Nome del tuo database - Schema
Schema Name:
Nome del tuo database
Rename References
Default Collation:
Context Help
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Drop Schema
Please confirm permanent deletion of schema `Nome del tuo database` and all its data.
Cancel
Drop Now
Review SQL
Click drop now
Schema
Apply
Revert
Action Output
Time
Action
Response
Duration / Fetch Time
1
12:22:25
Apply changes to Nome del tuo database
Changes applied
Added new scratch query editor

- ## Glassfish Installation

Install downloaded glassfish 4.1 then go to "%Glassfish directory%/bin", right click asadmin.bat file and select "run as administrator". If you are using UNIX Based OS just execute the "asadmin.sh" file. Then type start-domain and press enter

- ## Install MySQL Java Connector

  The MySQL Java Connector is needed to make the Glassfish Server communicate with the MySQL .copy provided connector into "%Glassfish Folder%/Glassfish/lib".

- ## Connection Pool

  Start your browser and go to http://localhost:4848/ ,then go to JDBC -> JDBC Connection pool

  use this guide to create connection Pool:

You are now ready to create JDBC Connection Pools and JDBC Resources.

Creating a Connection Pool

1. In the GlassFish Administration Console, using the navigation tree navigate to **Resources**, **JDBC**, **Connection Pools**.
2. In the **JDBC Connection Pools** frame click **New**. You will enter a two step wizard.
3. In the **Name** field under **General Settings** enter the name for the connection pool, for example enter `MySQLConnPool`.
4. In the **Resource Type** field, select `javax.sql.DataSource` from the drop-down listbox.
5. In the **Database Vendor** field, select `MySQL` from the drop-down listbox. Click **Next** to go to the next page of the wizard.
6. You can accept the default settings for General Settings, Pool Settings and Transactions for this example. Scroll down to Additional Properties.
7. In Additional Properties you will need to ensure the following properties are set:
   - *ServerName* - The server to connect to. For local testing this will be `localhost`.
   - *User* - The user name with which to connect to MySQL.
   - *Password* - The corresponding password for the user.
   - *DatabaseName* - The database to connect to, for example the sample MySQL database `World`.
8. Click **Finish** to exit the wizard. You will be taken to the **JDBC Connection Pools** page where all current connection pools, including the one you just created, will be displayed.
9. In the **JDBC Connection Pools** frame click on the connection pool you just created. Here, you can review and edit information about the connection pool. Because Connector/J does not support optimized validation queries, go to the **Advanced** tab, and under Connection Validation, configure the following settings:
   - *Connection Validation* - select **Required**.
   - *Validation Method* - select **table** from the drop-down menu.
   - *Table Name* - enter `DUAL`.
10. To test your connection pool click the **Ping** button at the top of the frame. A message will be displayed confirming correct operation or otherwise. If an error message is received recheck the previous steps, and ensure that MySQL Connector/J has been correctly copied into the previously specified location.

!PLEASE READ: FOR RESOURCE NAME USE “jdbc/mydb”!

Now that you have created a connection pool you will also need to create a JDBC Resource (data source) for use by your application.

Creating a JDBC Resource

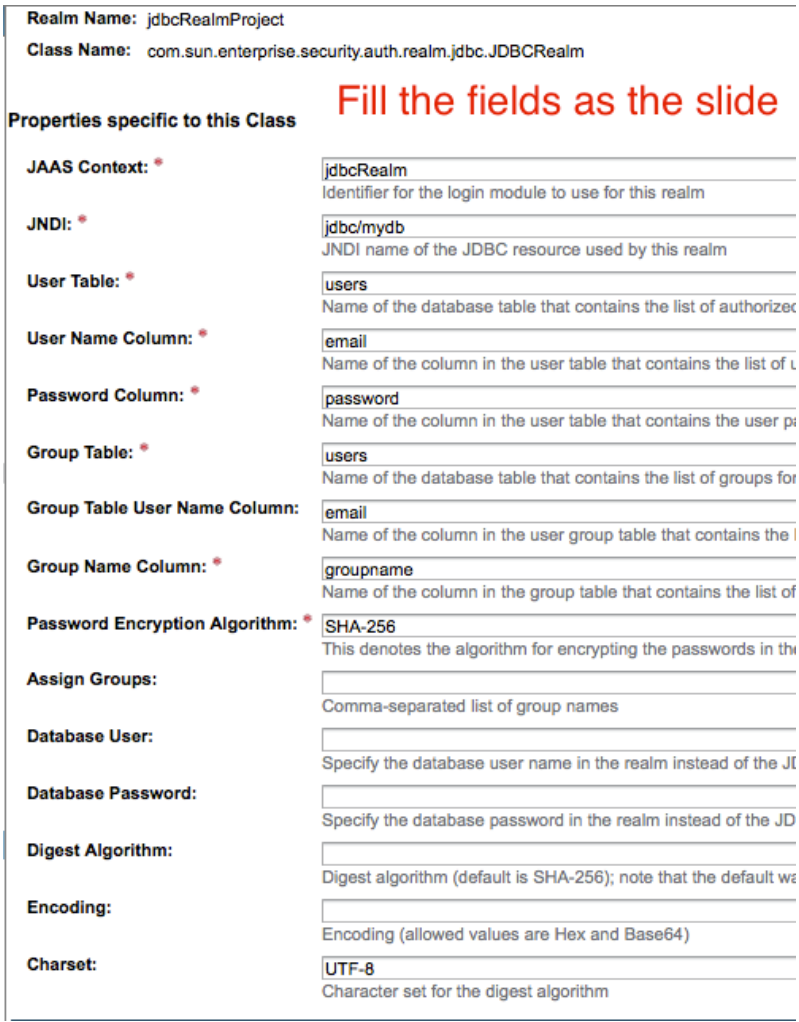
Your Java application will usually reference a data source object to establish a connection with the database. This needs to be created first using the following procedure.

- Using the navigation tree in the GlassFish Administration Console, navigate to **Resources**, **JDBC**, **JDBC Resources**. A list of resources will be displayed in the **JDBC Resources** frame.
- Click New. The **New JDBC Resource** frame will be displayed.
- In the **JNDI Name** field, enter the JNDI name that will be used to access this resource, for example enter `jdbc/MySQLDataSource`.
- In the **Pool Name** field, select a connection pool you want this resource to use from the drop-down listbox.
- Optionally, you can enter a description into the **Description** field.
- Additional properties can be added if required.
- Click OK to create the new JDBC resource. The **JDBC Resources** frame will list all available JDBC Resources.

- **Jdbc Realm**

In Glassfish go to Configuration -> server-config -> Security -> Realms -> NEW and copy this configuration

NOTICE: Use the realm name provided



- RESTART GLASSFISH with “restart-domain” command
- Final Deployment

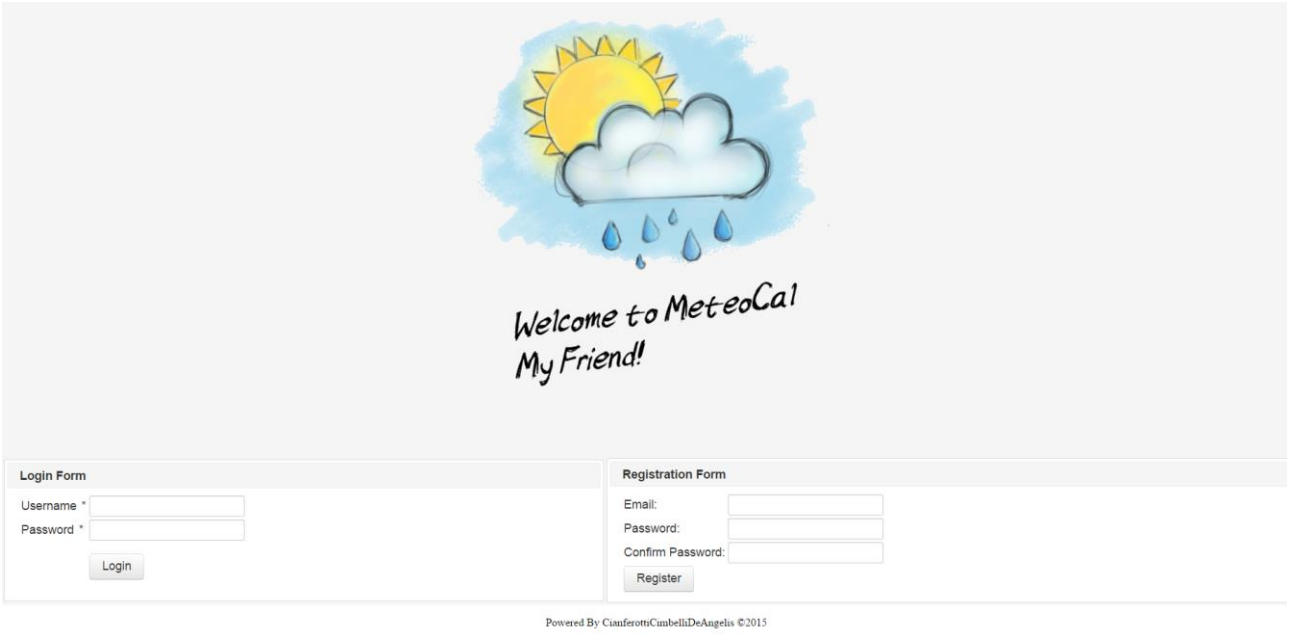
Download the “meteocal.war” file from here and go to http://localhost:4848/ to access the Glassfish Server Admin Console and click on “Deploy an Application”, select the war file just downloaded

- RESTART GLASSFISH with “restart-domain” command
- Application Start

go to http://localhost:4848/ , go to application , select the deployment then click “launch”.

In the address bar of your browser type http://localhost:8080/MeteoCalv1” and enjoy.

You can also use netbeans IDE and clone project from our Repository.



FOR EVERY DOUBT OR PROBLEM WITH CONFIGURATION PLEASE CONTACT US

Thanks,

Alessandro De Angelis,Alessandro Cianferotti,Alessandro Cimbelli