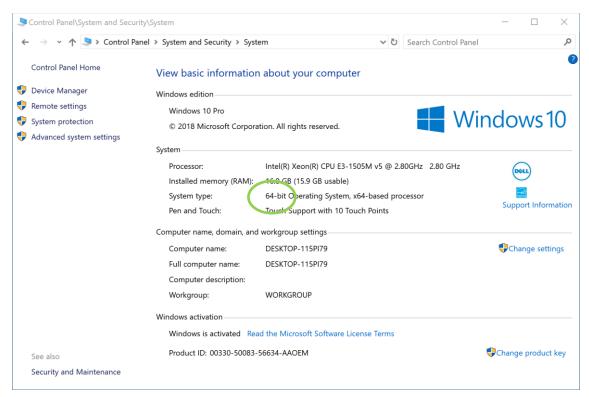
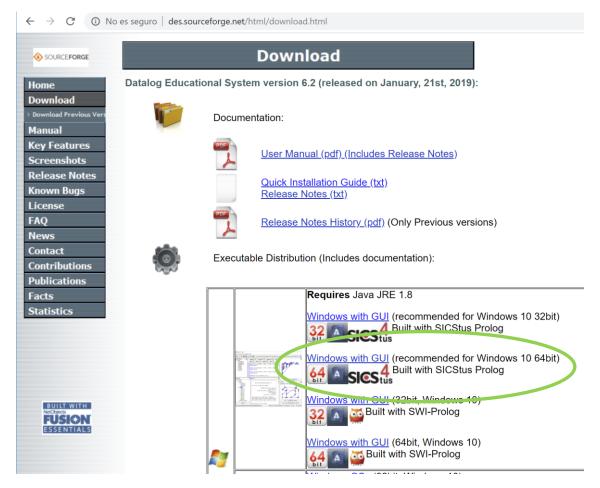
Installing DES on Windows 10 with access to MS SQL Server

 Check if your operating system is 64 or 32 bit in Start -> Control Panel -> System and Security:

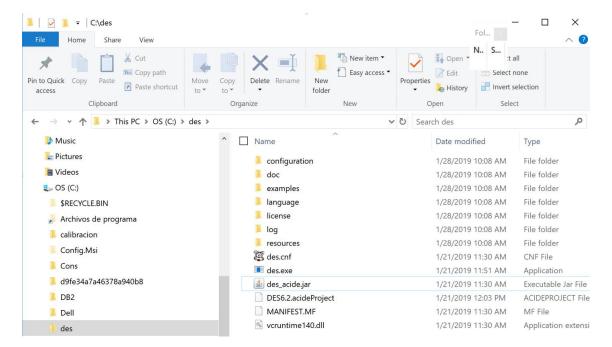


2. Download the last version of DES from http://des.sourceforge.net/html/download.html for your arquitecture (in this example, 64 bit):



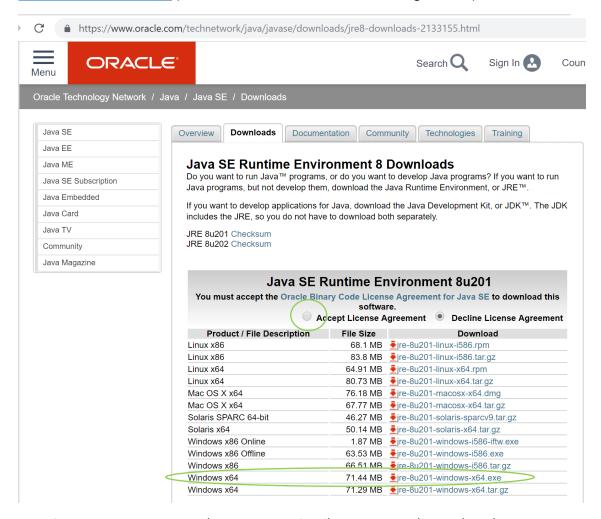
This SICStus version is faster, but you can find that some external databases does not mix well because of types. Then, you could try the SWI-Prolog download instead (the last one in the figure).

3. Unzip the archive you just have downloaded in a folder of your choice. For example, in C:\des:



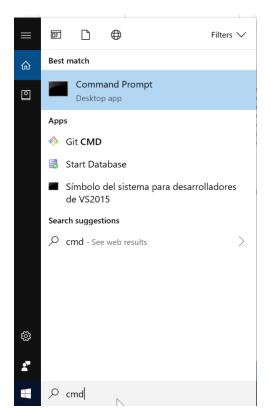
In that folder you can find the file des_acide.jar. Double-click on it, and DES should start.

If not, most likely, either Java is not installed or a wrong version is found. If so, download Oracle Jave JRE 1.8 from https://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html (check the radio button for the license agreement):



By default, Java is installed at C:\Program Files (x86)\Common Files\Oracle\Java\javapath.

Double click again in des_acide.jar. If it insists on not executing then, from a command terminal (type cmd in Start):



Type the following:

```
Command Prompt - java -jar des_acide.jar

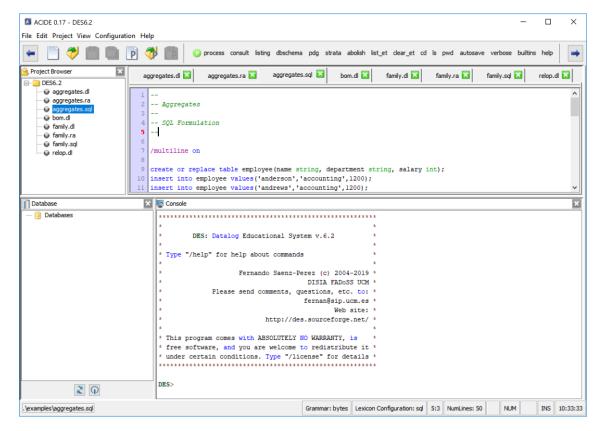
Microsoft Windows [Version 10.0.17134.523]

(c) 2018 Microsoft Corporation. All rights reserved.

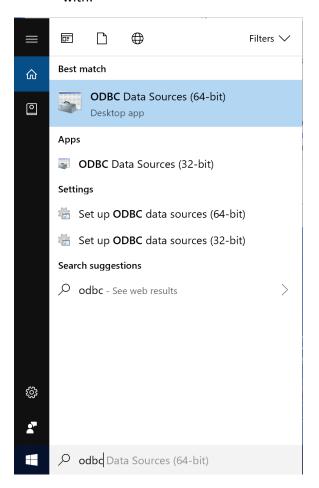
C:\Users\fernan>cd \des

C:\des>java -jar des_acide.jar
```

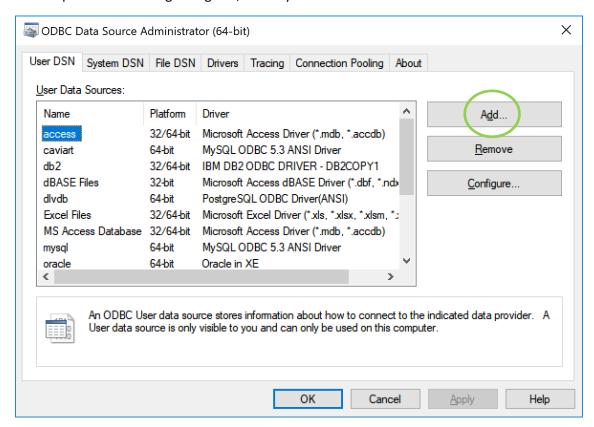
which should start DES with the ACIDE GUI:



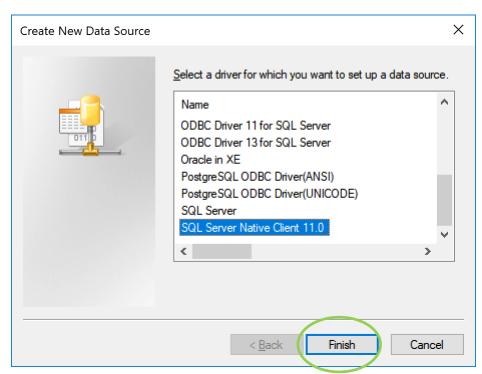
4. Create an ODBC connection to the external database (SQL Server, in this example) with:



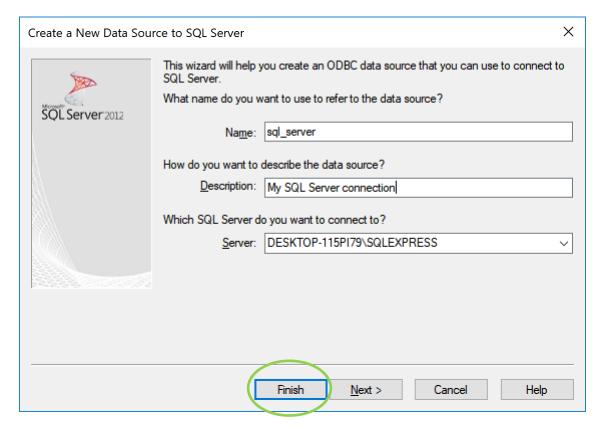
which opens the following dialog box, where you must click on "Add":



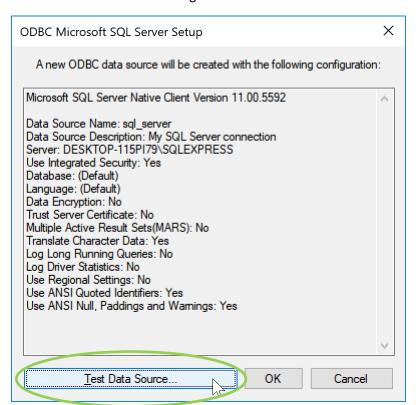
Select the "SQL Server Native Client 11.0" driver as follows and click "Finish":



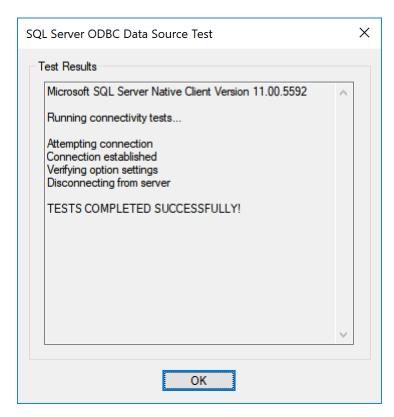
Fill the required text boxes, select your SQL Server instance (yoy may need to add "\SQLEXPRESS" at the end) from the last drop-down box, and click "Finish":



You can test the connection right now:

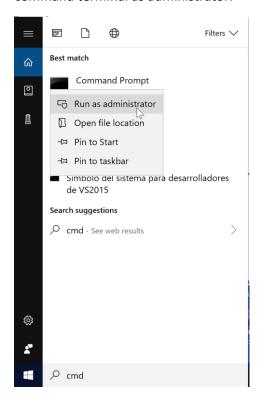


which should be ok:



Click "OK" as many times as needed in the different dialogs to eventually close the "ODBC Data Source Administrator".

It seems that this ODBC administrator does not allow you to enable MARS (Multiple Active Result Sets), which is required to operate with SQL Server from DES. To enable it, start a command terminal as administrator:



Then, type in a single line:

odbcconf /a {CONFIGSYSDSN "SQL Server Native Client 11.0" "DSN=sql_server|MARS_Connection=YES"}

```
Administrator: Command Prompt

(c) 2018 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>odbcconf /a {CONFIGSYSDSN "SQL Server Native Client 11.0"

"DSN=sql_server|MARS_Connection=YES"}

C:\WINDOWS\system32>
```

Finally, you should be able to play with DES connected to SQL Server!

