



Goal

Main goal of the current demo is to establish connection from python scripting language to the SAP HANA DB via ODBC and shipped with SAP HANA python version and to execute simple query in order to retrieve data from database.

Notes

Before running this demo proper objects must be created inside SAP HANA DB and data must be loaded. Also credentials of SAP HANA must be specified in 'sap_hana_credentials.py' file that automatically loaded during execution. For further information check *README.md* file and comments.

Initial software requirements

To start with the demo the following tools are required to be installed on the PC:

- Python 2.7/2.6
- SAP HANA Client 64bit version

General options

Load sample data from './../demo-import-csv/data/data/data_to_load_transaction.csv' to SAP HANA DB. Two options are available to access the data inside SAP HANA from python.

- Use delivered with SAP HANA Client API for python
- Install additional library for ODBC (<https://code.google.com/p/pyodbc/>)

Option #1

- Install Python 2.7/2.6 on your machine (<http://www.python.org/download/>).
- Add path to your python execution folder to the PATH variable.
- Install additional libraries for the ODBC usage (<https://code.google.com/p/pyodbc/>).

Option #2

- Add path to python that is shipped with "SAP HANA Client" to PATH variable.
- Copy 3 files(__init__.py, dbapi.py, resultthrow.py) from the 'hdbcli' folder to the "SAP HANA Client"'s Python's folder called 'Lib'.
- Copy 2 files(pyhdbcli.pdb, pyhdbcli.pyd) from the 'hdbclient' folder to the "SAP HANA Client"'s Python's folder 'Lib'.
- Additional (<http://scn.sap.com/community/developer-center/hana/blog/2012/06/08/sap-hana-and-python-yes-sir>)



Credentials for SAP HANA DB

Create file with name 'sap_hana_credentials.py' in 'sap-hana-python' folder. Paste the code from bellow and edit it with your own credentials:

```
##  
# Credentials for the SAP HANA DB user  
##  
  
# Option # 1  
# DSN MUST be created on target PC with corrent SERVER NAME and PORT NUMBER  
DSN = 'sap_hana_'  
  
# Option # 2  
SERVER = "  
PORT =  
  
# Common credentials  
USER = "  
PASSWORD = "
```

Running demo

Run bat files to see the results. For further information check 'README.md' file.

Additional materials:

- <http://www.python.org/download/>
- <https://code.google.com/p/pyodbc/>
- <http://scn.sap.com/community/developer-center/hana/blog/2012/06/08/sap-hana-and-python-yes-sir>