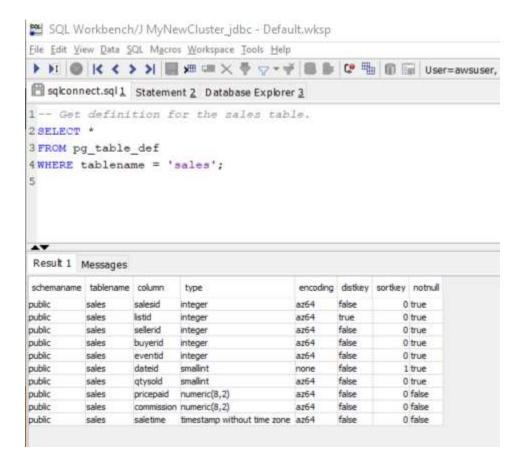
HOE 4 - Setup and Use SQL Workbench to Access Cluster remotely

In this HOE we will use the free SQL Workbench. Workbench/J is a free, DBMS-independent, cross-platform SQL query tool. It is written in Java and should run on any operating system that provides a Java Runtime Environment.

Its main focus is on running SQL scripts (either interactively or as a batch) and export/import features.



You can download the appropriate library version for your deployment here

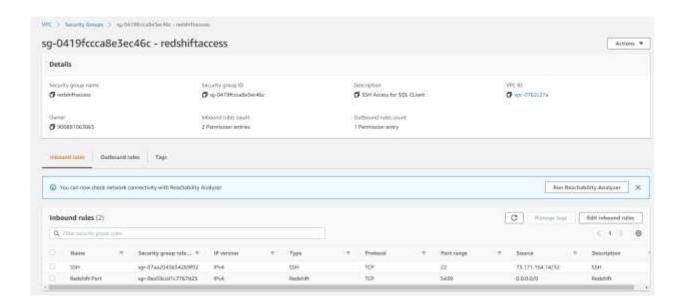
https://www.sql-workbench.eu/

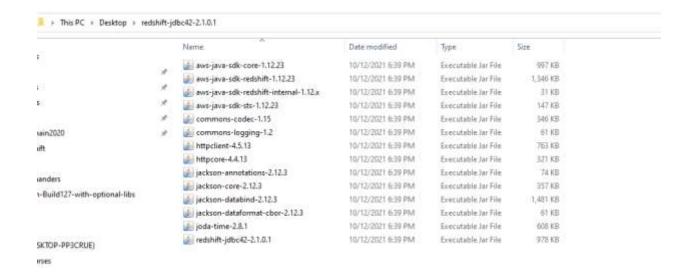
There is also the requirement for drivers for Redshift.

https://docs.aws.amazon.com/redshift/latest/mgmt/configure-jdbc-connection.html#download-jdbc-driver

Note: Before you can access the cluster remotely (outside of AWS) make sure you have setup your security group in the VPC you're using to allow for Redshift port 5439

(Follow the Network and Security HOE)



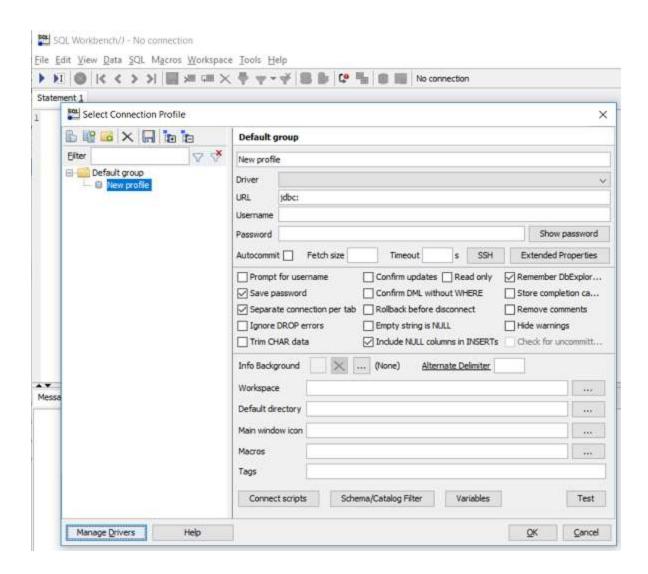


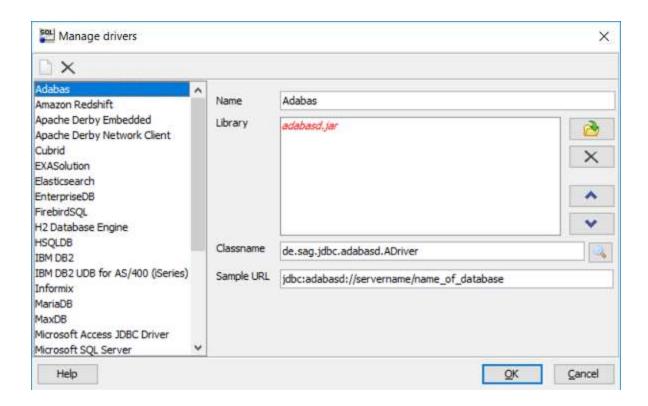
When your ready launch SQL Workbench using SQLWorkbench64.exe

"Select Connection Profile" dialog screen can ask you to create the profile for database connection that you want to work with.

For this simple configuration, we will first define the Amazon Redshift JDBC driver to the SQL Workbench tool.

Click Manage Drivers button at the bottom of the screen.





Press "Create new entry" icon at the top of the screen of Manage Drivers

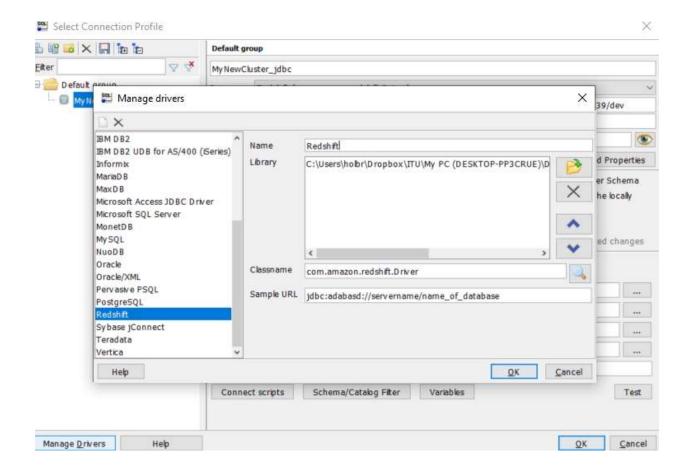
Fill the input text areas as seen below.

Using file selection icon, point to the .jar file you have download as JDBC Driver for Amazon Redshift in previous steps.

The class name field will be populated as com.amazon.redshift.jdbc.

A driver which is the default class name. You can also accept this class name for JDBC driver.

Then press the OK button.



Create a Profile to Connect Amazon Redshift Database

After the JDBC specified is defined, we can create a new profile to connect to a specific Amazon Redshift database.

On the main menu, follow menu options "File > Connect window"

On the "New Profile" screen we will define a new configuration to connect to your target Amazon Redshift cluster and database.

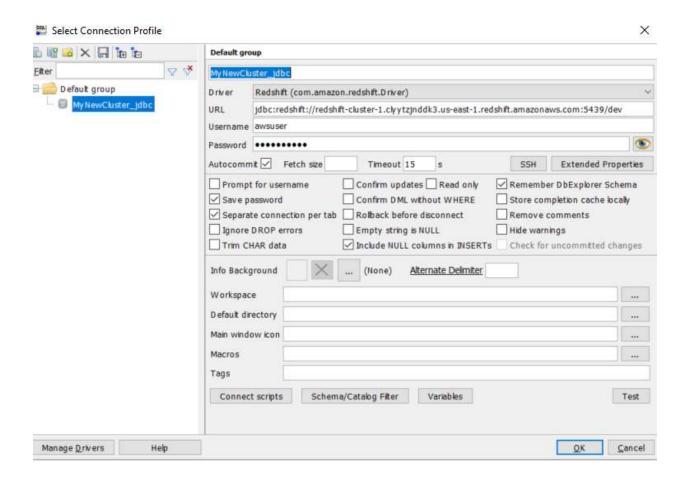
Give a descriptive name to your database connection profile.

In the Driver combo box, choose the driver entry you have created in the previous step (Amazon Redshift).

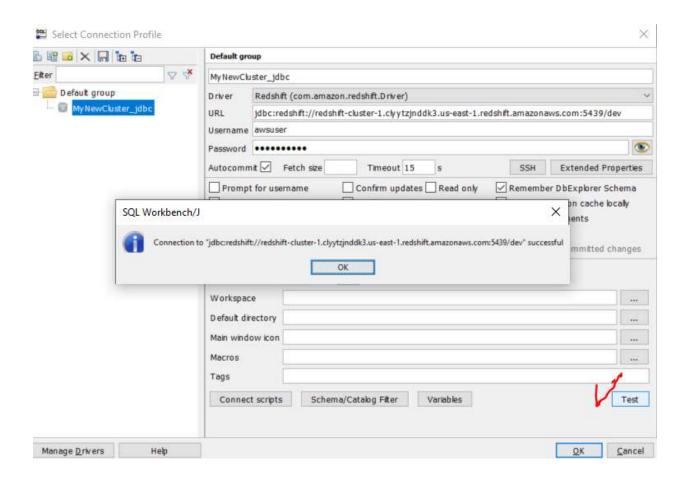
In URL entry, type the connection URL which is in a similar format as

jdbc:redshift://mydemocluster.clyytzjnddk3.us-east-1.redshift.amazonaws.com:5439/dev

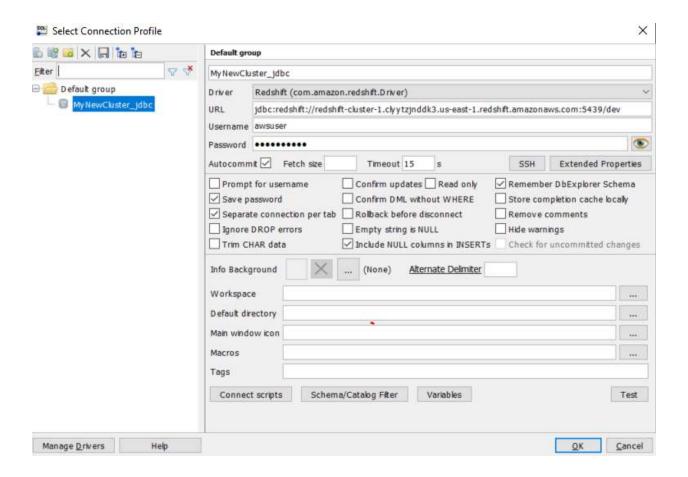
In username and password, textboxes enter the credentials of the database user you have to connect to Amazon Redshift cluster database.



Select Test button on-screen to see if your database connection works successfully.



Press OK to save your Amazon Redshift connection profile.



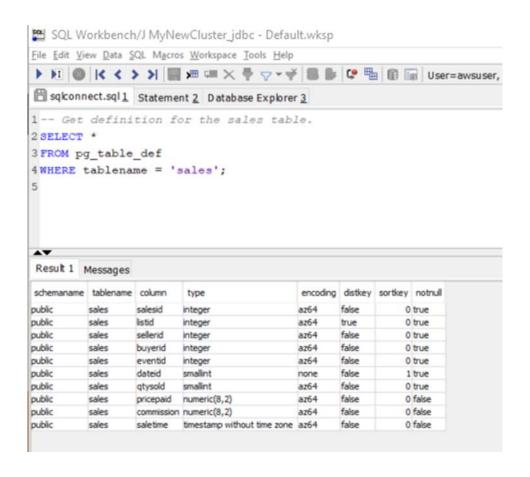
You can execute following SQL SELECT command too to see if the database connection is successfully working on SQL Workbench

-- Get definition for the sales table.

SELECT *

FROM pg_table_def

WHERE tablename = 'sales';



End of Hands on Exercise