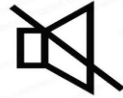


Welcome to this “Partner Enablement” session

- All participants will be on mute throughout the entire session and in a listen only mode. This session will be recorded.
- If you have any questions, please submit them using the Q&A feature on the left side of your On24 console at any time.
- At the end of the session we will reserve time to address submitted questions.



Q&A

Submit

Today's Presenter

- Daniel Seo
- Main focus: Qlik Sense, QlikView and Nprinting
- How long been with Qlik : 5 years
- Personal Interest : Volunteer Work/Community Involvement



Objectives

Efficiency and effectiveness in establishing Oracle database connection

- Oracle ODBC driver vs Olik ODBC connector
- Configuring tnsnames.ora and sqlnet.ora
- Setup System DSN
- Establish Oracle ODBC connection for Qlik Sense
- Establish Qlik ODBC connector (Oracle)

Agenda

1. Oracle ODBC driver vs Olik ODBC connector Package
2. Installing Oracle ODBC driver (Oracle client)
3. Configuring tnsnames.ora and sqlnet.ora
4. Setup System DSN
5. Establish Oracle ODBC connection for Qlik Sense
6. Establish Qlik ODBC connector for Oracle database
7. Demo

1. Oracle ODBC driver vs Qlik ODBC Connector

| Connectivity | Advantage | Disadvantage |
|-----------------------------|--|---|
| Oracle ODBC driver | <ul style="list-style-type: none">• Performance better than Qlik ODBC connector Package• Compatibility (Support all versions) | <ul style="list-style-type: none">• Need to install Oracle ODBC driver• Requirement to set-up/configure System DSN before making a connection |
| Qlik ODBC connector Package | <ul style="list-style-type: none">• No requirement to set-up a DSN before making a connection• It offers a dynamic single UI e.g. for example, depending on selected data source, a port number option would be added or not. | <ul style="list-style-type: none">• Compatibility<ul style="list-style-type: none">- Need to check Support matrix- Supported Oracle versions (11.2, 12c) |

https://help.qlik.com/en-US/connectors/Subsystems/ODBC_connector_help/Content/Connectors_ODBC/Introduction/ODBC-connector.htm

2. Installing Oracle ODBC driver

Steps for establishing Oracle ODBC connection

- 1) Download and install Oracle Client (ODBC drivers)
- 2) Set System DSN on “ODBC Data Source Administrator”
- 3) Establish Oracle ODBC connection on Qlik Sense

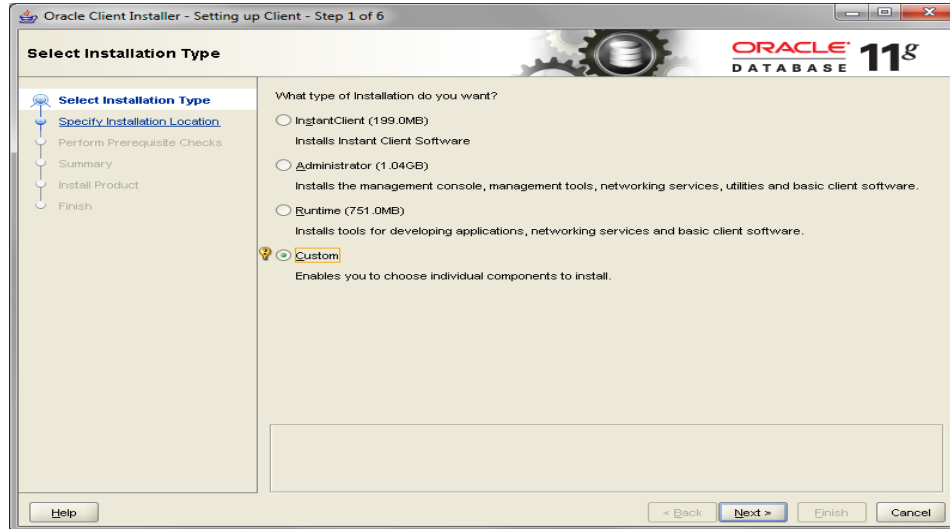
2. Installing Oracle ODBC driver

1) Download and Install Oracle Client (ODBC drivers)

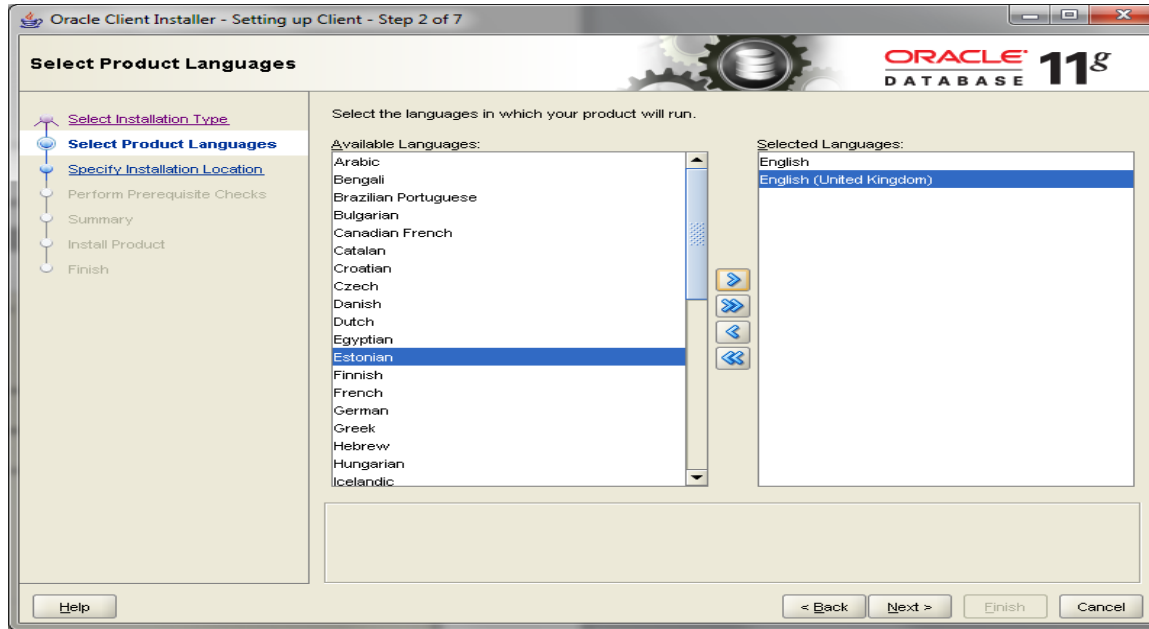
<https://www.oracle.com/technetwork/topics/winx64soft-089540.html>

To use Oracle ODBC driver, It needs to be extracted/Installed from the full Oracle Client installer.

2) Extract the Client folder in the zip file to a temporary location

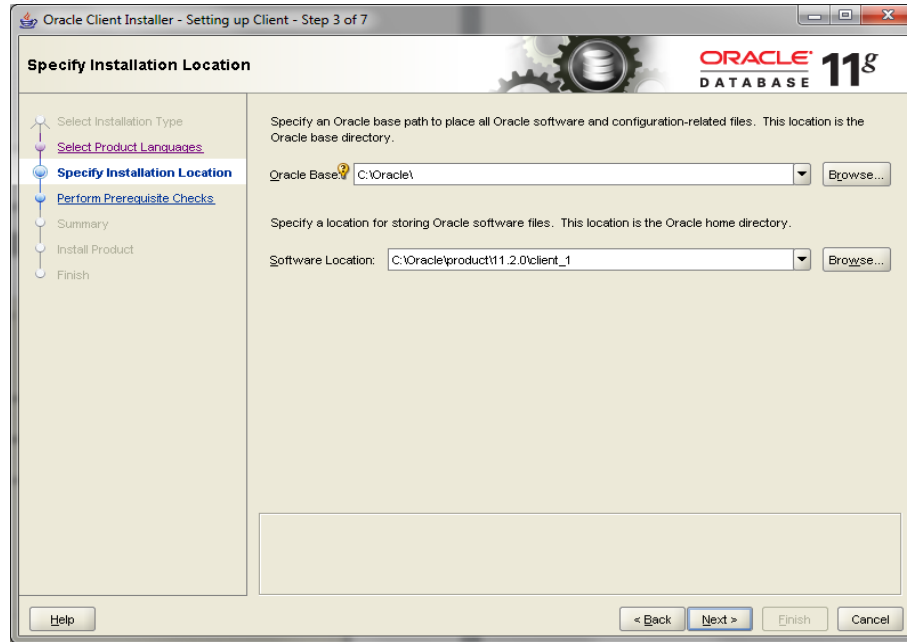


2. Installing Oracle ODBC drivers



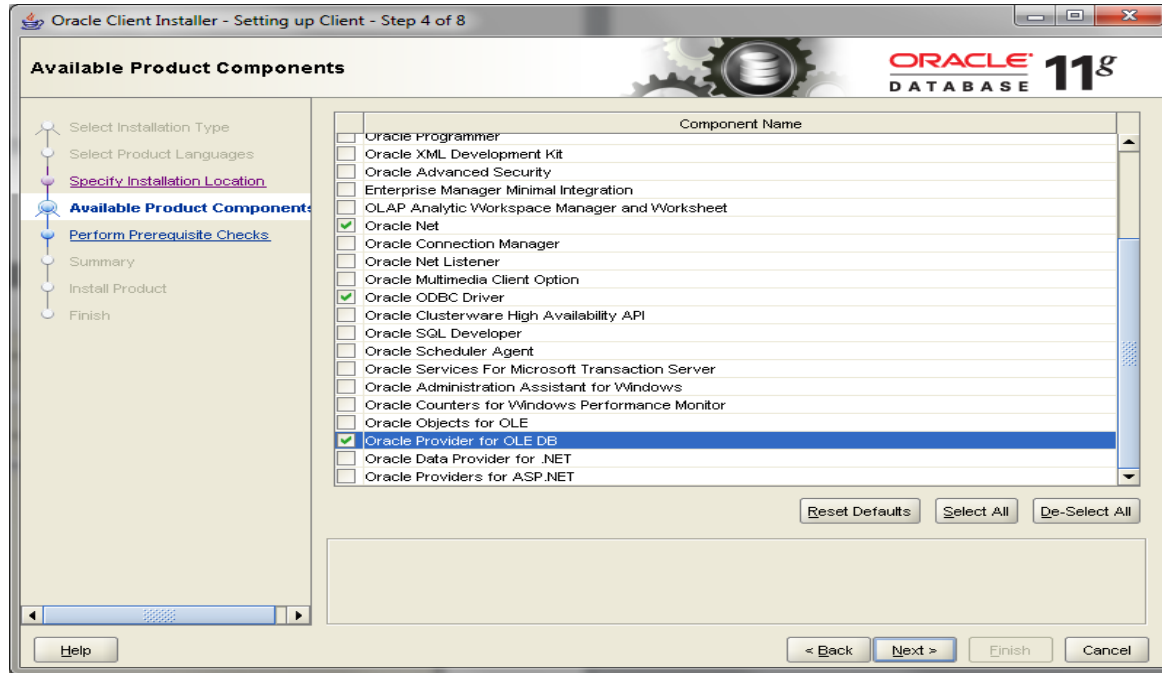
Select the correct language and click “Next”.

Oracle ODBC drivers



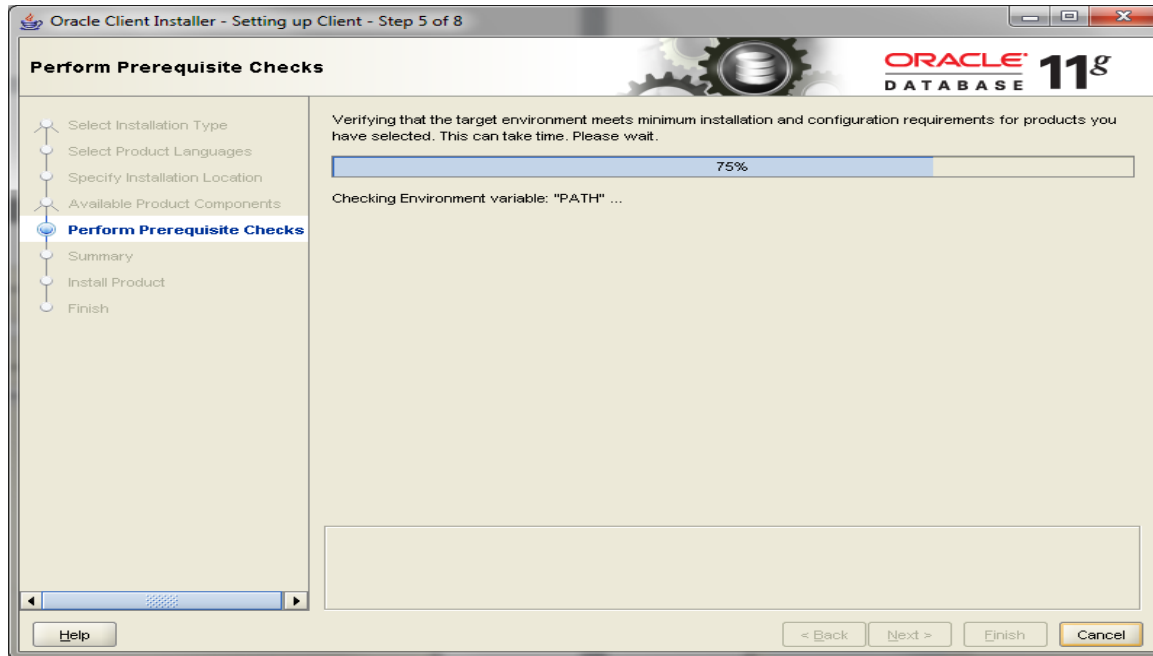
Set the paths as you want them to be eg c:\oracle and click “Next”.

Oracle ODBC drivers



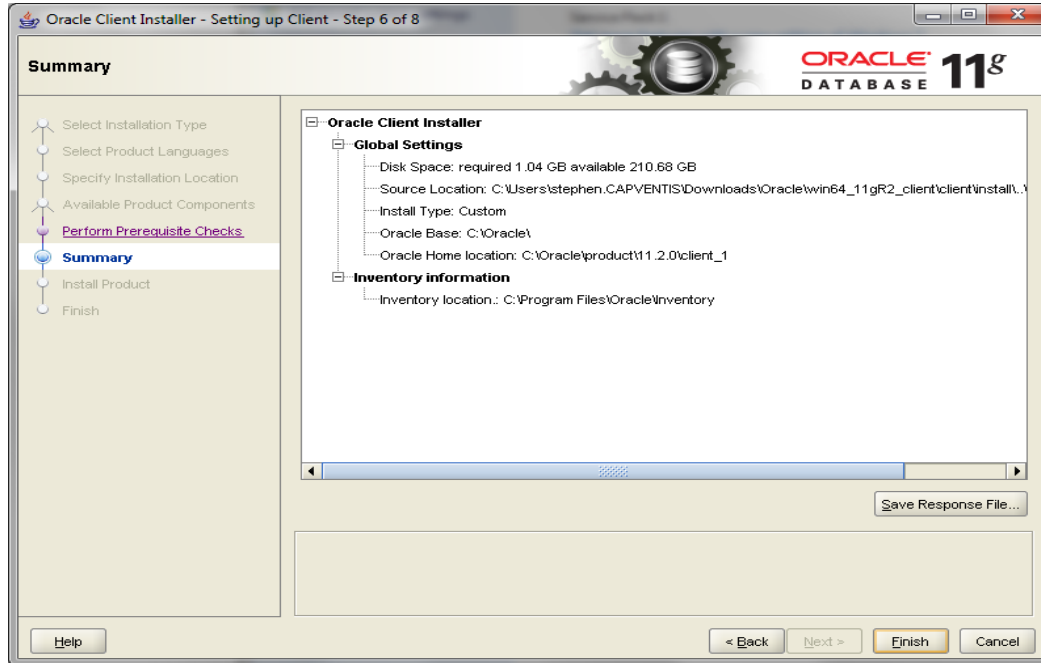
Select “Oracle Net”, “Oracle ODBC Driver” and “Oracle Provider for OLEDB”
Click “Next”.

Oracle ODBC drivers



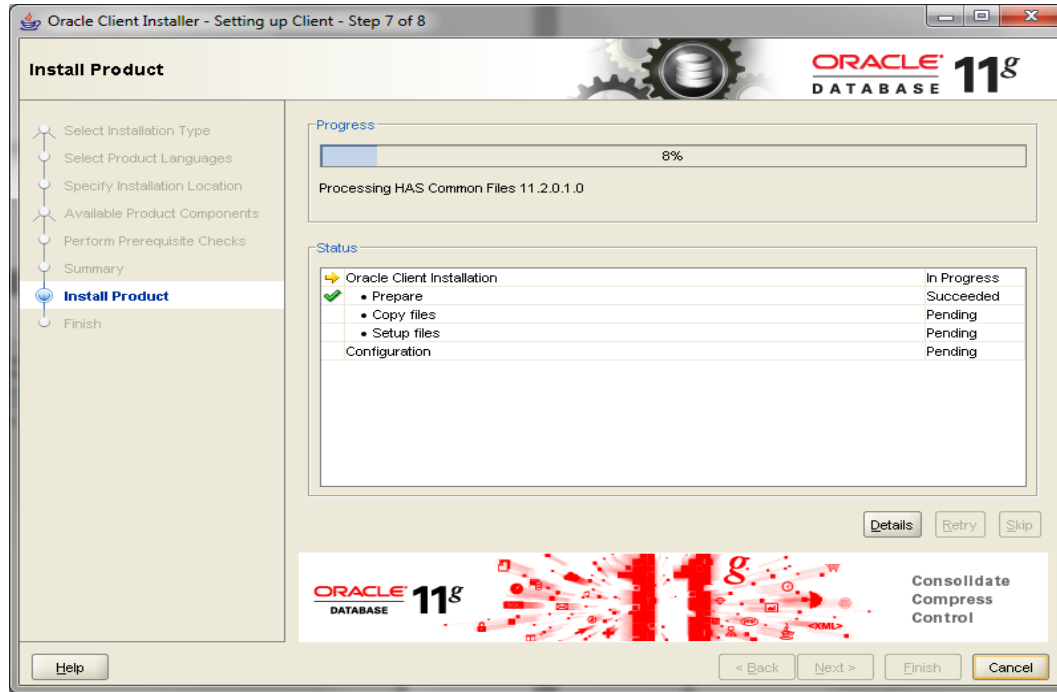
The installation checks settings.

Oracle ODBC drivers



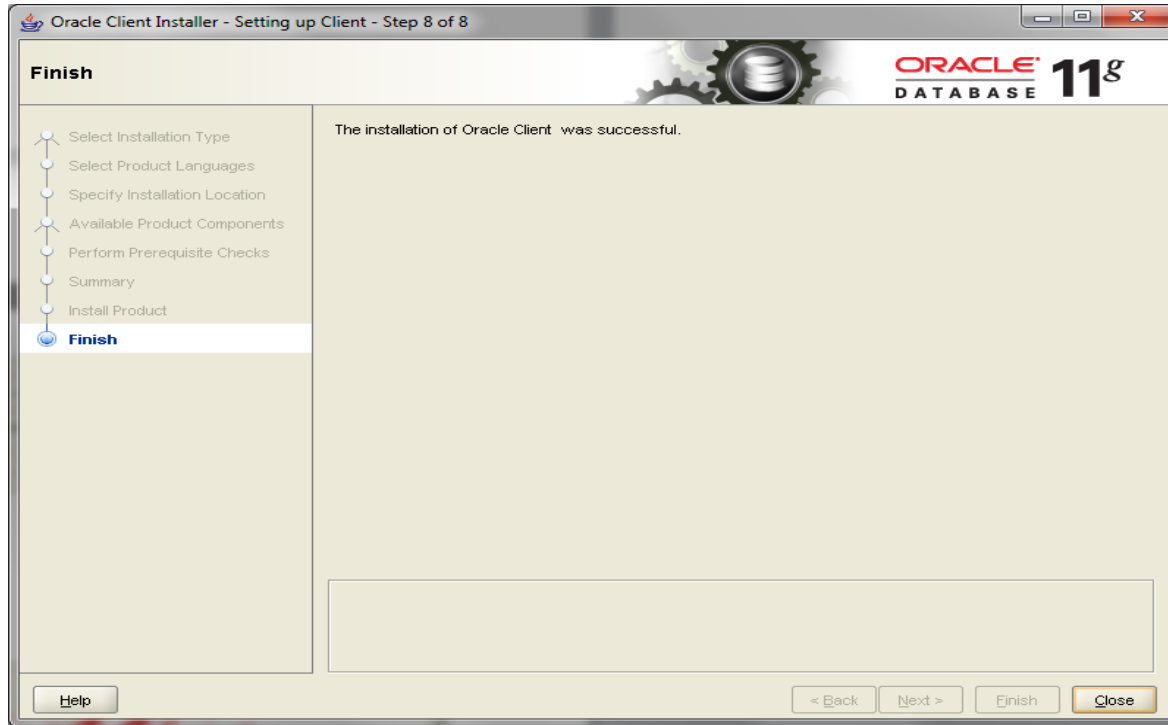
Confirm settings are OK and click “Finish”.

Oracle ODBC drivers



The installation continues

Oracle ODBC drivers



When the installation is complete, click “Close”.

3. Configuring tnsnames.ora and sqlnet.ora

- The ODBC drivers are now installed
- Need to configure TNS names file which will tell the driver where the Oracle databases are.
- Ideally obtain this file from a DBA or a user who has already accessed the data you are going to use and place the file in
C:\Oracle\product\12.2.0\client_1\network\admin

3. Configuring tnsnames.ora and sqlnet.ora

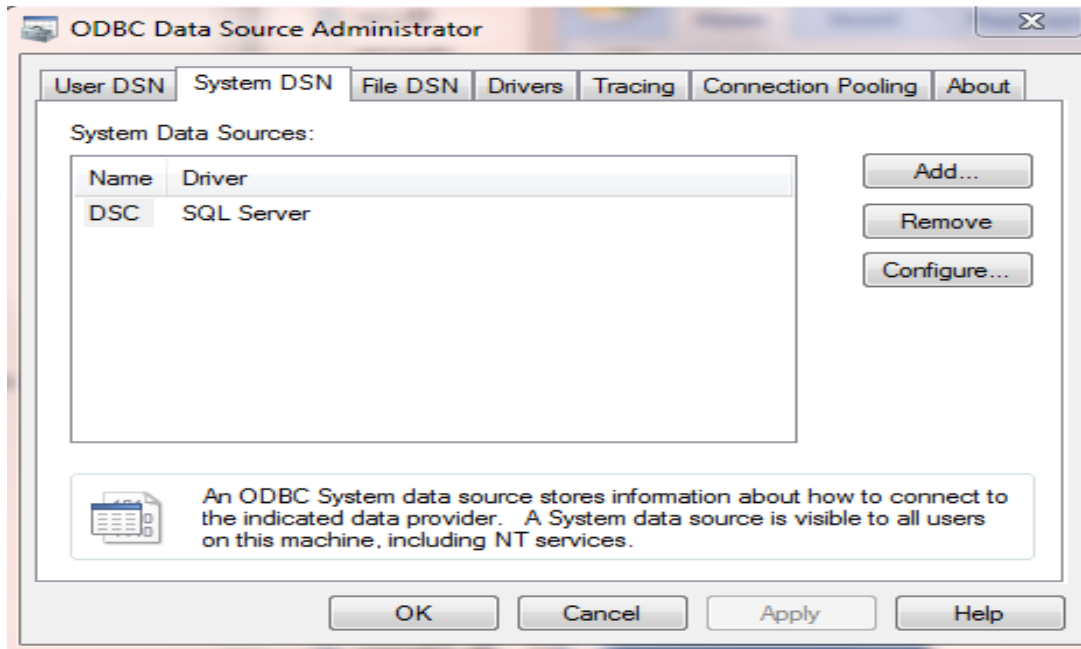
- Place the file in C:\Oracle\product\12.2.0\client_1\network\admin
- Sample of tnsnames.ora Network Configuration File:
Generated by Oracle configuration tools.

```
LISTENER_ORCL =  
(ADDRESS = (PROTOCOL = TCP)(HOST = QlikServer6.domain.local)(PORT = 1521))
```

```
ORCL =  
(DESCRIPTION =  
(ADDRESS = (PROTOCOL = TCP)(HOST = QlikServer6.domain.local)(PORT = 1521))  
(CONNECT_DATA =  
(SERVER = DEDICATED)  
(SERVICE_NAME = ORCL)  
)  
)
```

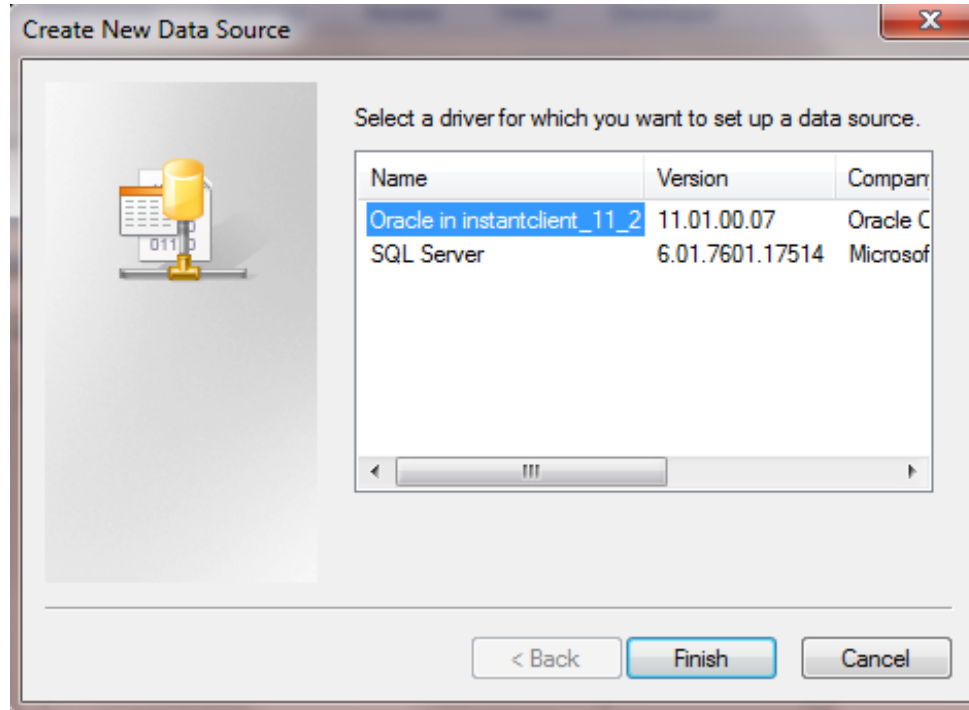

4. Setup System DSN

- 1) Run “ODBC Data Sources (64-bit)” on Windows OS
- 2) Click “Drivers” top and check Oracle ODBC driver
- 3) Click “Add” button under “System DSN” top



4. Setup System DSN

4) Choose Oracle



4. Setup System DSN

5) Give it a name, chose your Oracle TNS entry, provide a user name a test the connection

Oracle ODBC Driver Configuration

Data Source Name: MYDSN|

Description:

TNS Service Name: ORCL

User ID: QVUSER

Buttons: OK, Cancel, Help, Test Connection

Application: Oracle | Workarounds | SQLServer Migration

Enable Result Sets Enable Query Timeout Read-Only Connection

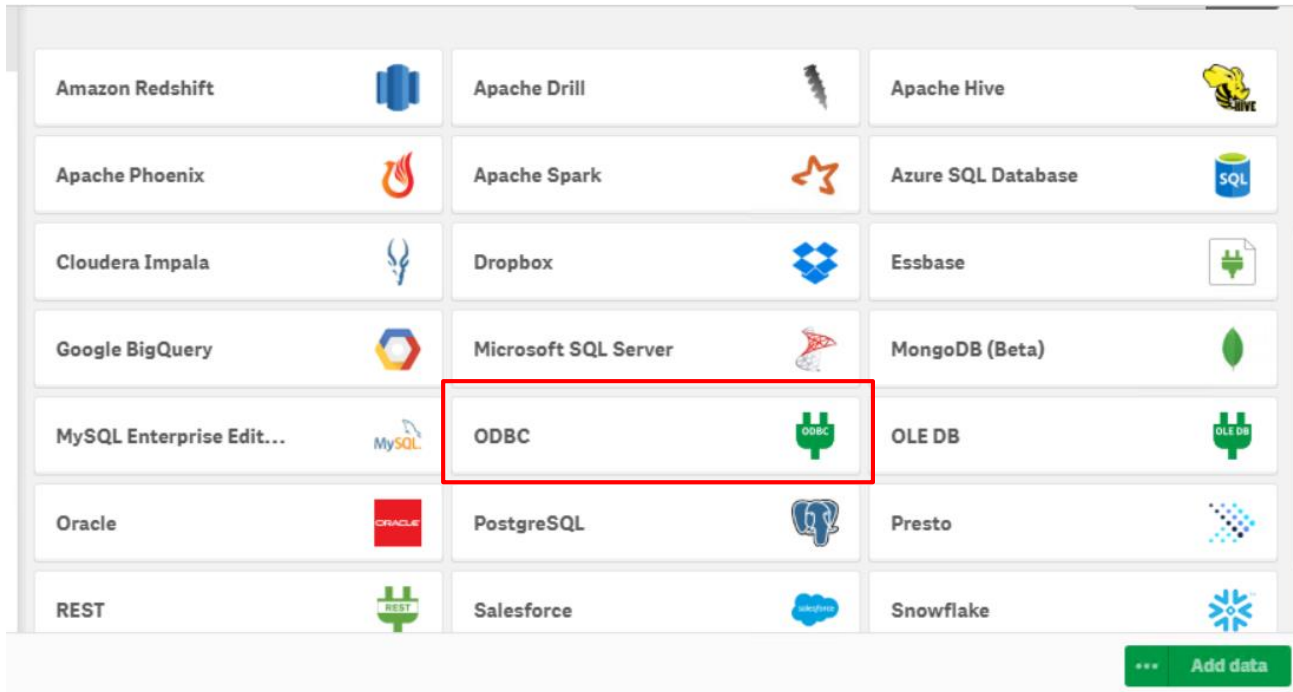
Enable Closing Cursors Enable Thread Safety

Batch Autocommit Mode: Commit only if all statements succeed

Numeric Settings: Use Oracle NLS settings

5. Establish Oracle ODBC connection for Qlik Sense

- Go to Hub >> App >> Data connections
- Click “Create new connection” for Oracle ODBC connection



5. Establish Oracle ODBC connection for Qlik Sense

- Go to Hub >> App >> Data connections
- Click “Create new connection” for Oracle ODBC connection

Create new connection (ODBC)

32-bit 64-bit

MYDSN

Logon credentials

Single Sign-On

Username Password

Name

6. Establish Qlik ODBC connector for Oracle database

1. Setting up the database properties

tnsnames.ora : set the host addresses and ports for the TNS service

Sqlnet.ora : set the location of the Oracle wallet

** Oracle DBA should provide *tnsnames.ora* and *Sqlnet.ora* (or information)

2. These files must be placed in one of the following locations for Qlik Sense and QlikView.

1) Qlik Sense Desktop:

%USERPROFILE%\AppData\Local\Programs\Common Files\Qlik\Custom
Data\QvOdbcConnectorPackage\oracle\lib\network\admin

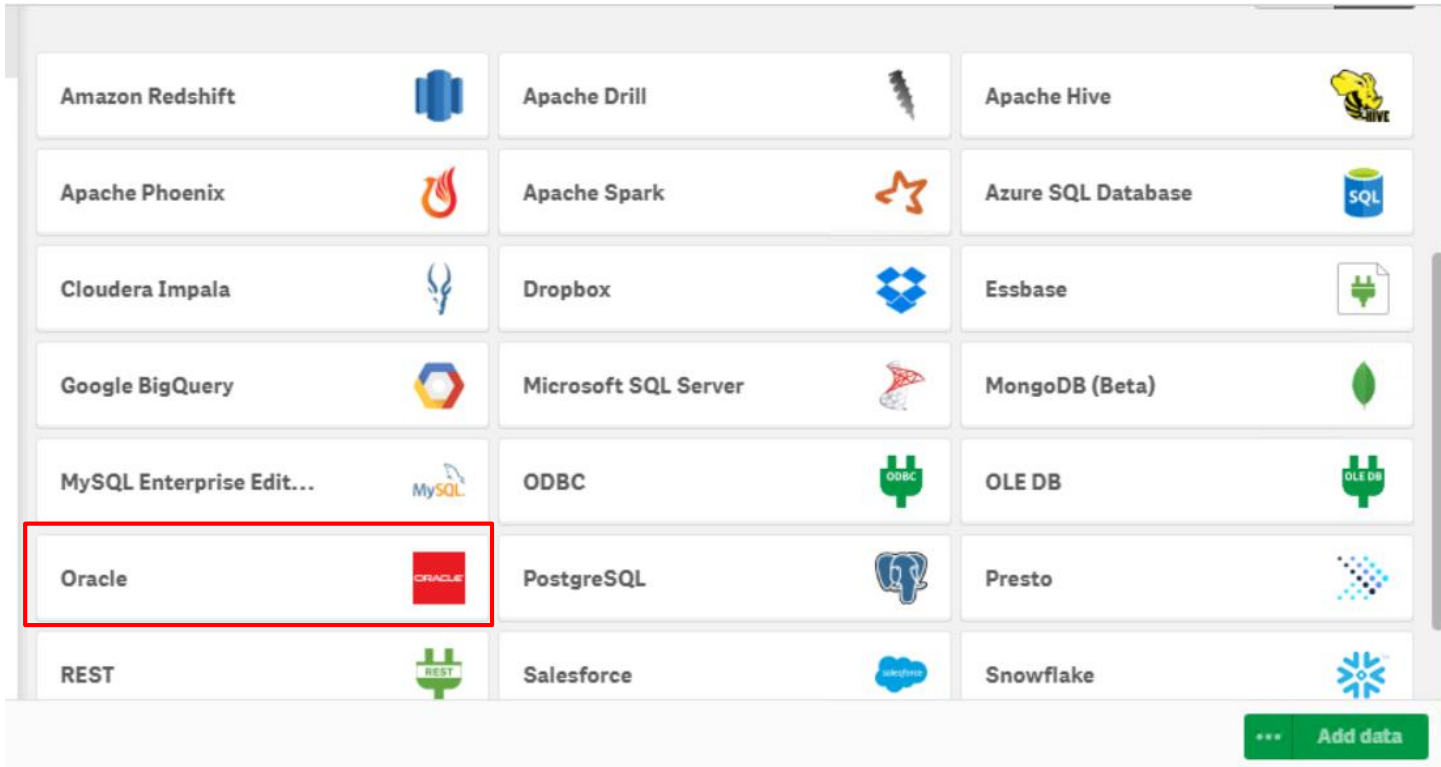
2) Qlik Sense Enterprise:

C:\Program Files\Common Files\Qlik\Custom
Data\QvOdbcConnectorPackage\oracle\lib\network\admin

3) QlikView:

C:\Program Files\Common Files\QlikTech\Custom
Data\QvODBCConnectorPackage\oracle\lib\network\admin

6. Establish Qlik ODBC connector for Oracle database



6. Establish Qlik ODBC connector for Oracle database

Create new connection (Oracle)

Database properties

Host name

Port

Service name

Use TNS Service name

TNS Name


Name

7. Demo

Demonstration

References

- https://help.qlik.com/en-US/connectors/Subsystems/ODBC_connector_help/Content/Connectors_ODBC/Oracle/Oracle-connector.htm
- <https://www.oracle.com/technetwork/topics/winx64soft-089540.html>
- https://www.firehousesoftware.com/webhelp/FHCADMonitor/Content/InstallationGuide/03_Create64-bitODBCDataSource.htm
- <https://tensix.com/2012/06/setting-up-an-oracle-odbc-driver-and-data-source/>



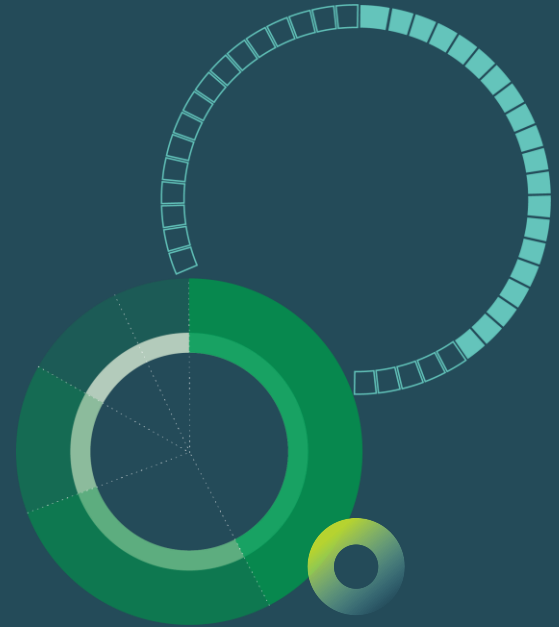
**“A problem well stated
is a problem half solved.”**

- Charles Kettering



Q & A

Please submit your questions
through the Q&A panel



Thank you!

We hope you enjoyed this session.

The **recording** and the **Q&A** will be uploaded to the page on the **Support Portal** AND on the **Qlik Community**.

We will send out a **survey** –
Please **provide** us with **your feedback**.



Copyright Disclaimer

© 2020 QlikTech International AB. All rights reserved. Qlik®, Qlik Sense®, QlikView®, QlikTech®, Qlik Cloud®, Qlik DataMarket®, Qlik Analytics Platform®, Qlik NPrinting®, Qlik Connectors®, Qlik GeoAnalytics®, Qlik Core™, Associative Difference™ and the QlikTech logos are trademarks of QlikTech International AB which have been registered in multiple countries. Other marks and logos mentioned herein are trademarks or registered trademarks of their respective owners.

The Support Techspert Thursdays (STT) and the information included or published herein is for informational purposes only, and does not constitute Qlik maintenance and support services that Qlik may make available to you under a maintenance contract with Qlik. The STT program may be discontinued by Qlik at any time.

The information included or published herein is subject to change without notice, and is being provided without representation or warranty of any kind. Qlik and its affiliates shall not be liable for errors or omissions with respect to this information. The only warranties for Qlik products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting any additional warranty.