Tosca - ADX Automation

Objective

This document describes the steps and details that are required to connect with ADX using TOSCA and how to validate ADX data using TOSCA

Components Involved

In order to automate an ADX in Tosca tool, we need the following details

1. ADX cluster name
2. Database name under ADX
3. ODBC data source
4. ODBC driver for SQL server
5. Tosca tool
    a. Data Integrity Testing module

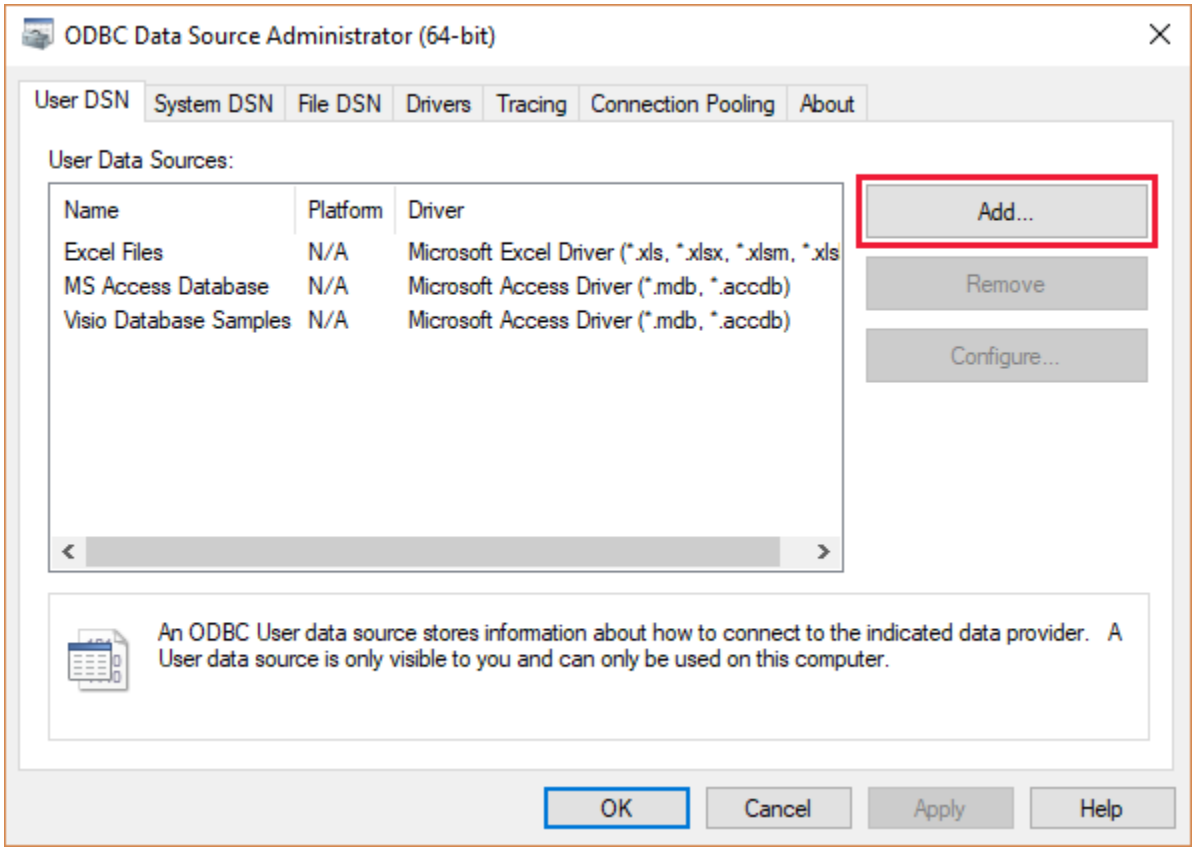
Connect ADX using ODBC

1. Download ODBC driver for SQL server using

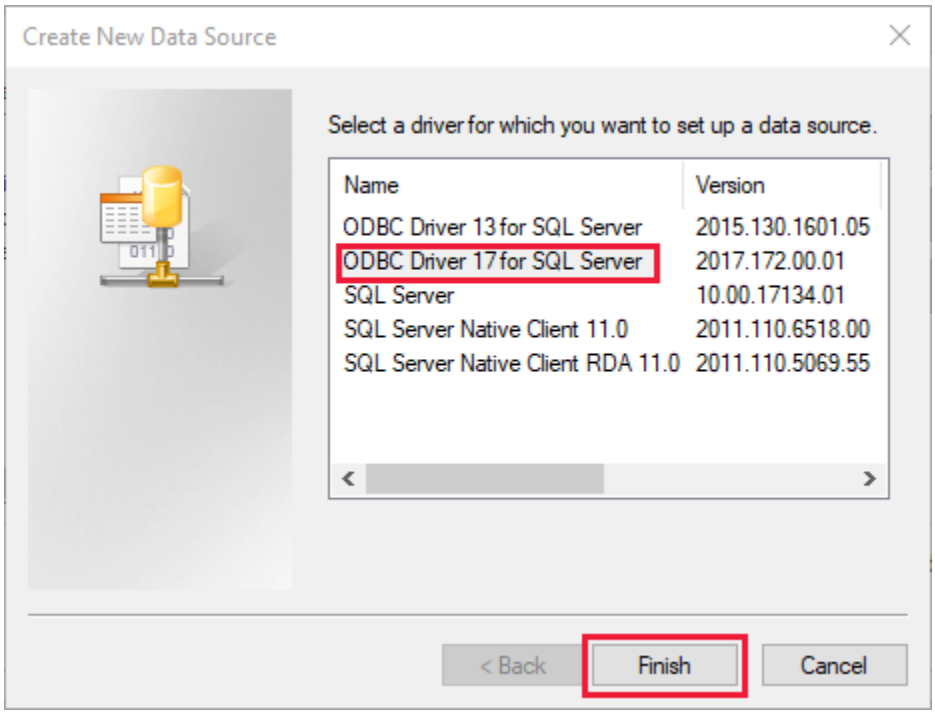
    https://learn.microsoft.com/en-us/sql/connect/odbc/download-odbc-driver-for-sql-server?view=sql-server-ver16

2. In Windows, search for *ODBC Data Sources*, and open the ODBC Data Sources desktop app.

3. Select Add.

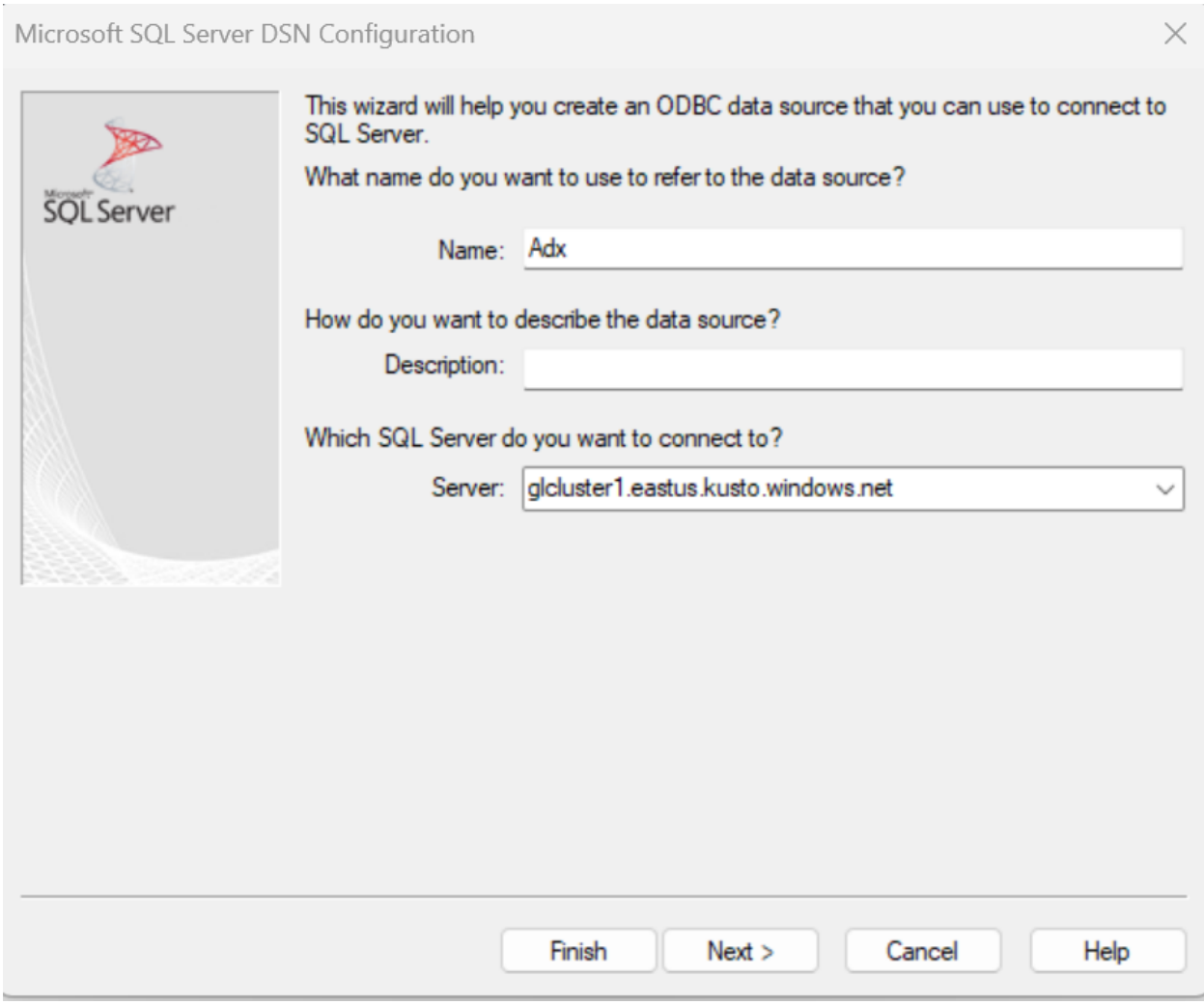


4. Select ODBC Driver 17 for SQL Server then Finish.

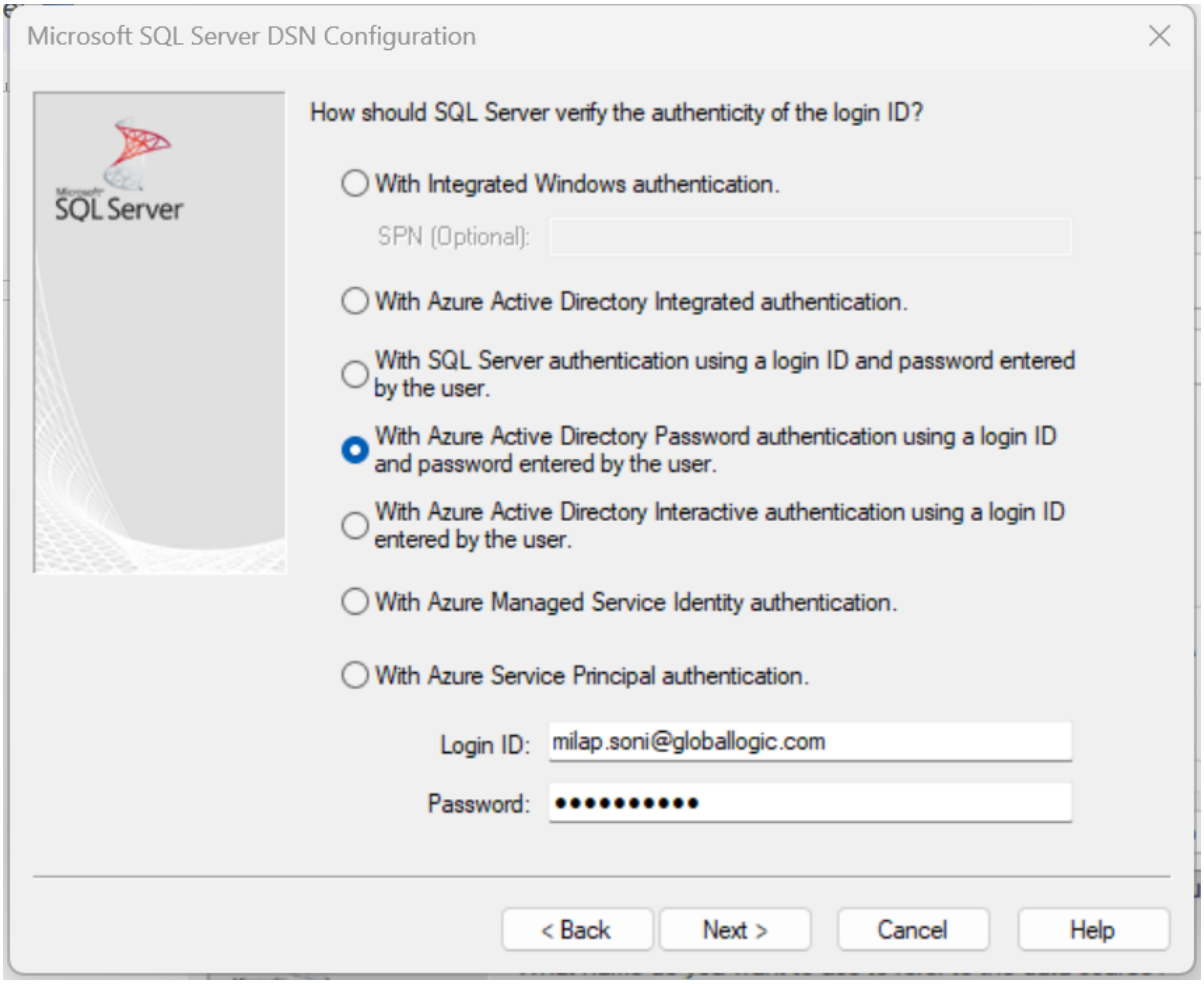


5. Enter a name and description for the connection and the cluster you want to connect to, then select Next. The cluster URL should be in the form *<ClusterName>.<Region>.kusto.windows.net*.

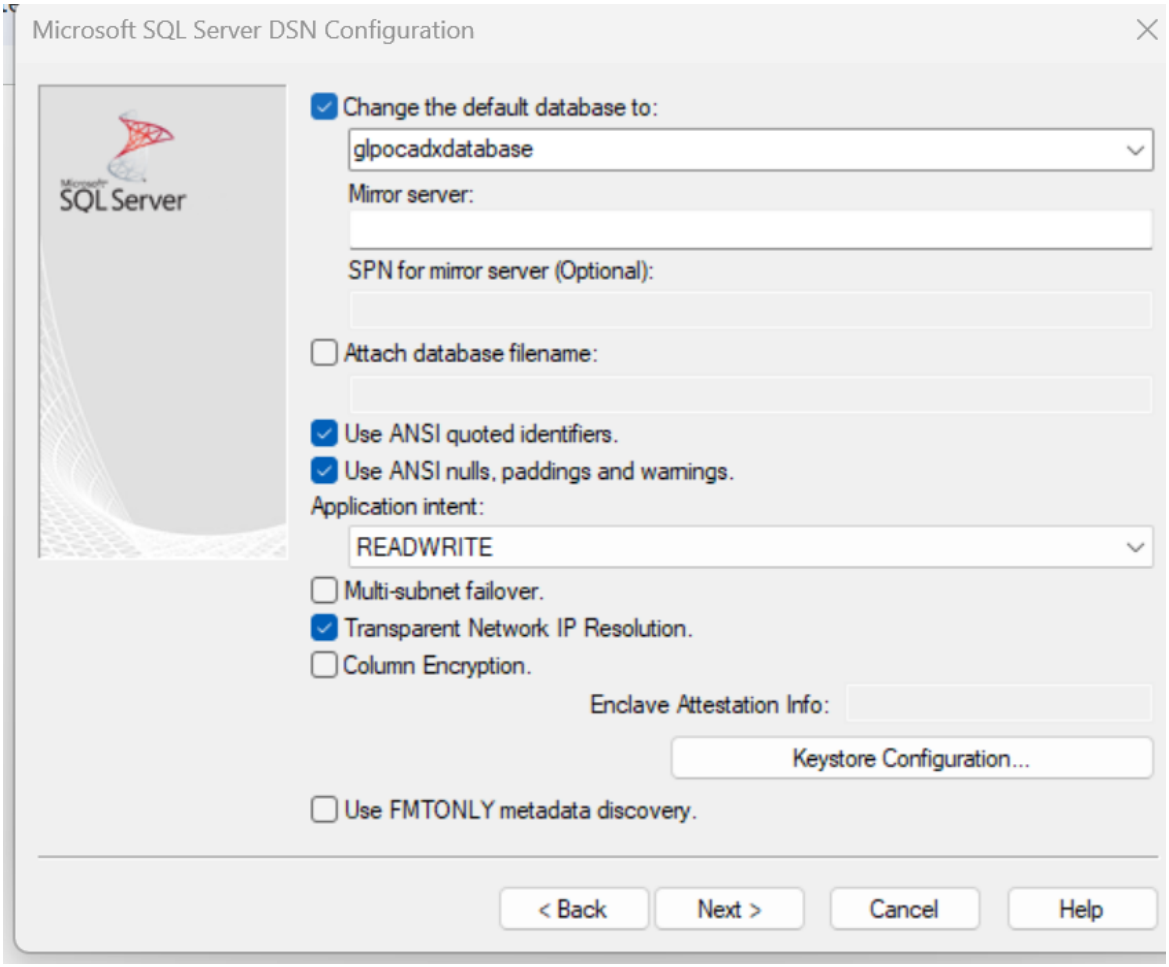
   Example:glcluster1.eastus.kusto.windows.net



6. Select the option below on the screen and provide username and password

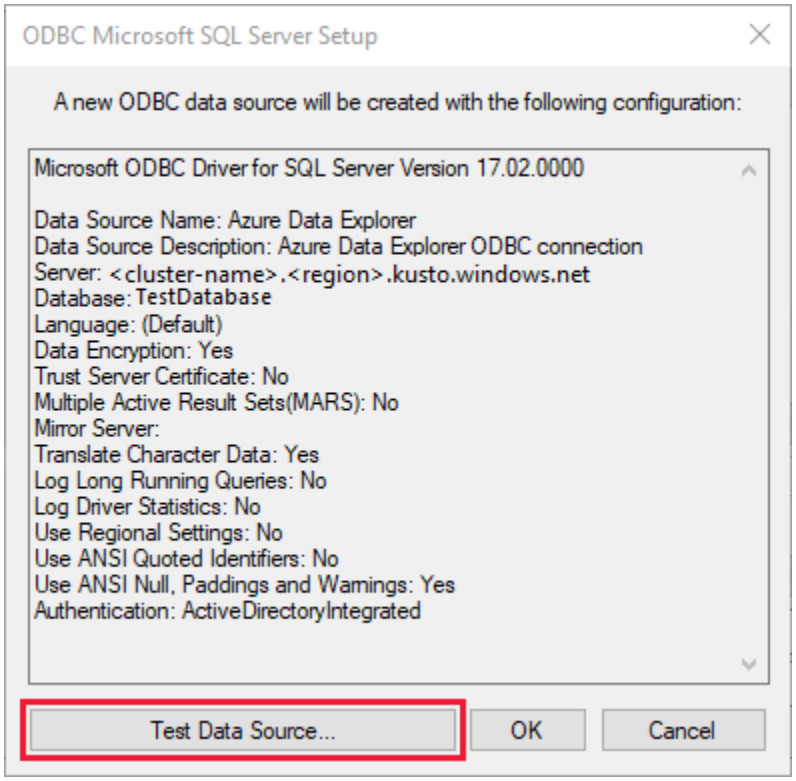


7. Select the database with the sample data then Next.



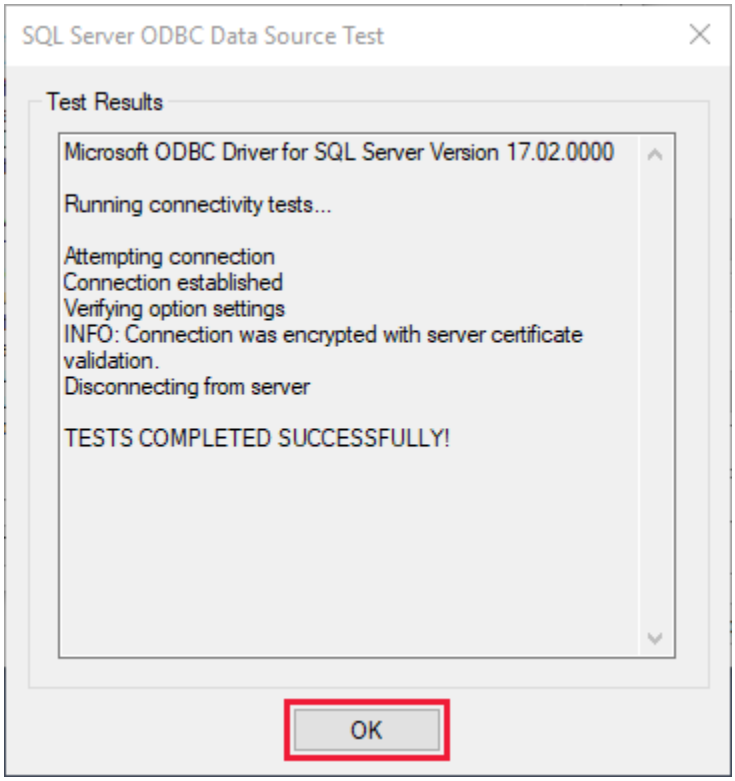
8. On the next screen, leave all options as defaults then select Finish.

9. Select Test Data Source.



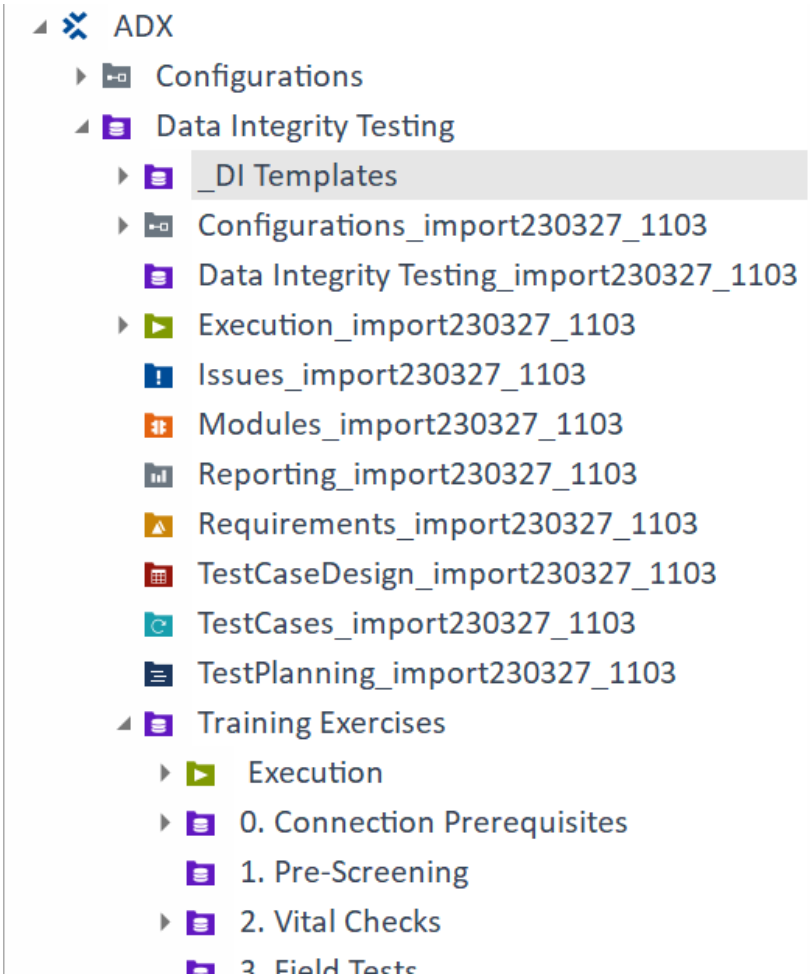
10. Verify that the test succeeded then select OK. If the test didn't succeed, check the values that you specified in previous steps, and ensure you have sufficient

permissions to connect to the cluster.

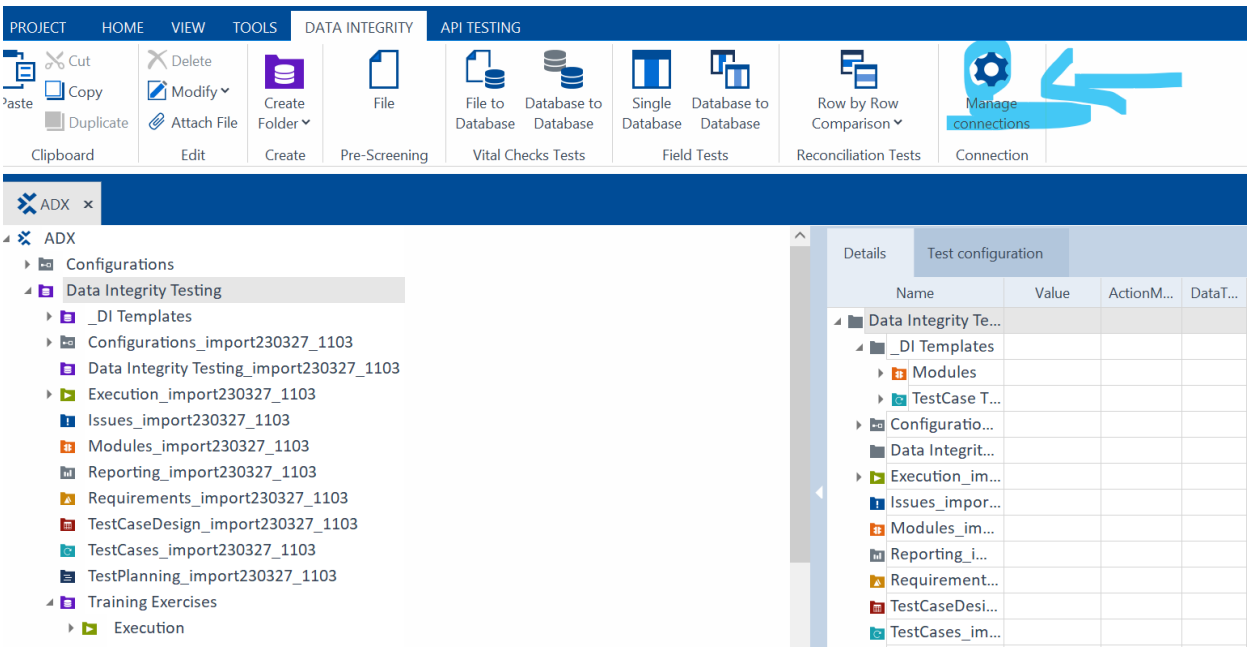


Connect ADX using TOSCA

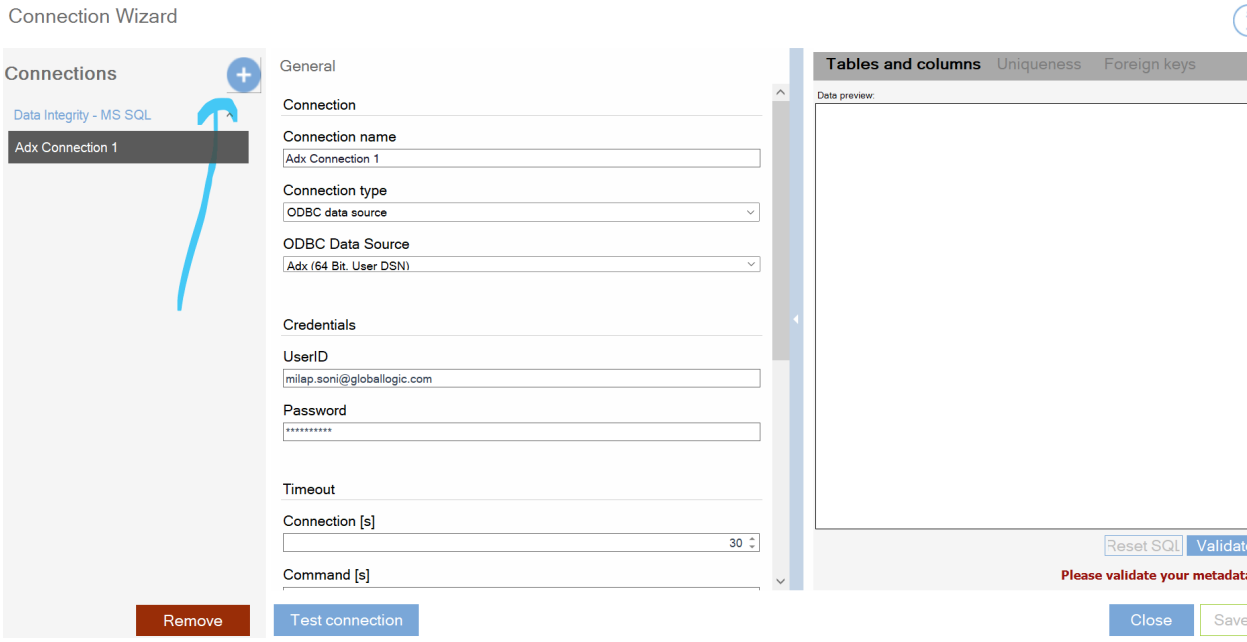
1. Create new project in Tosca
2. Import Data Integrity module in that project



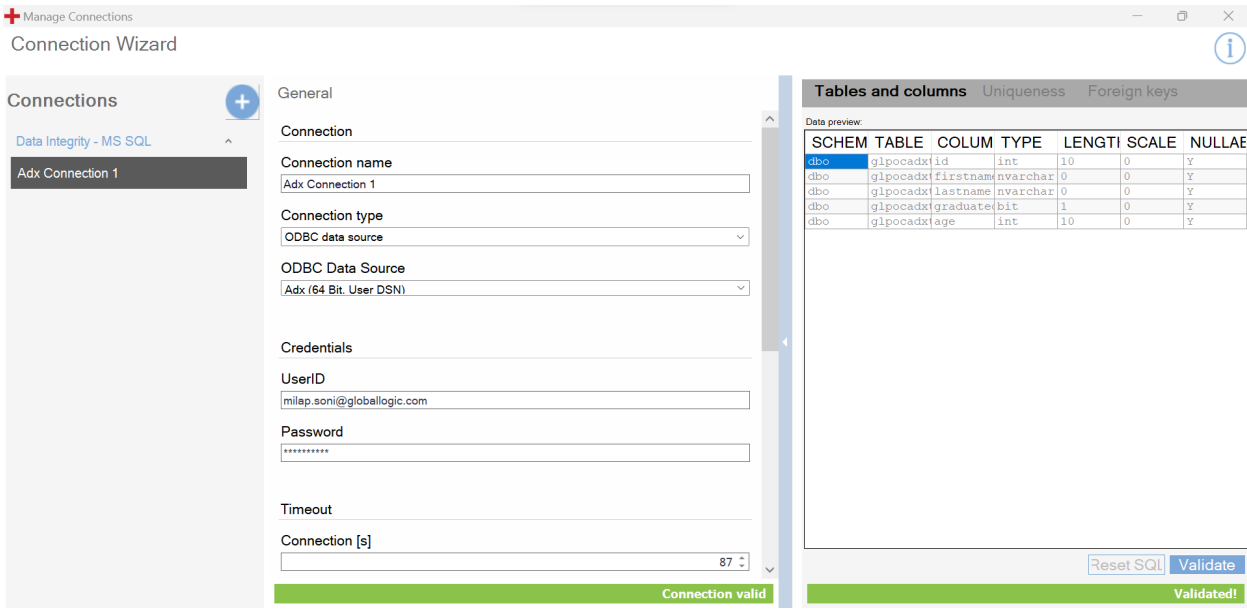
3. Select data integrity module and click on manage connection



4. Click on + sign on connections page and provide all the details as below on the screen.



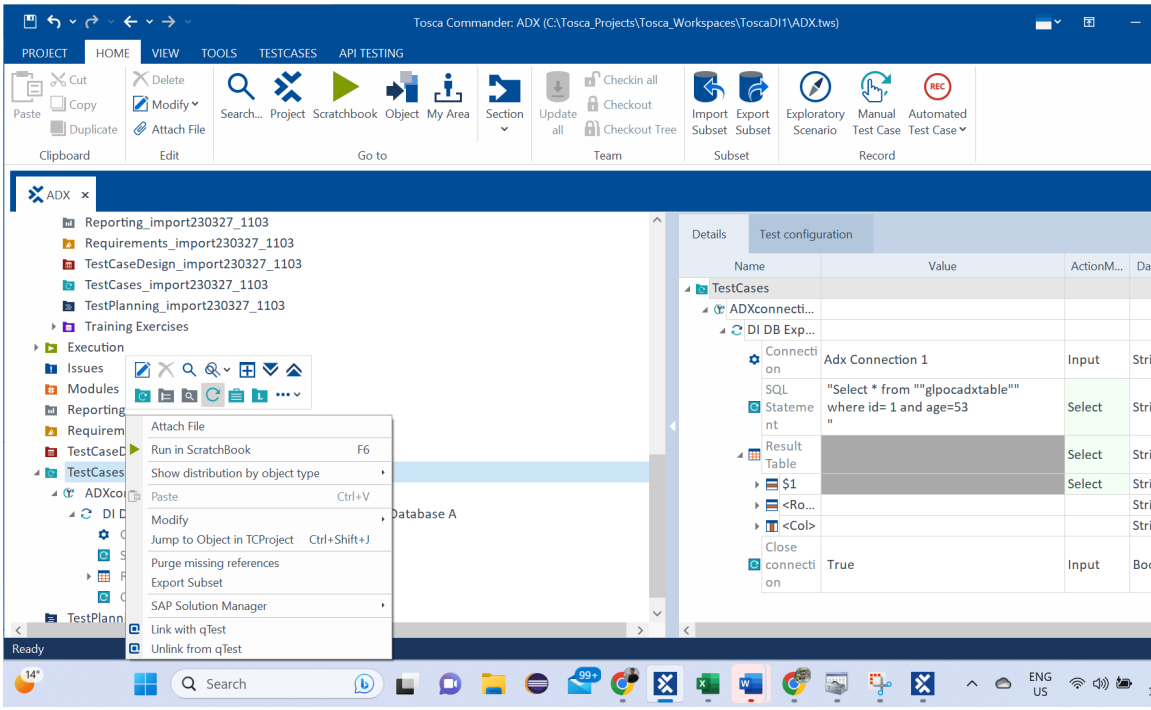
5. Click on test connection and Validate button sequentially.



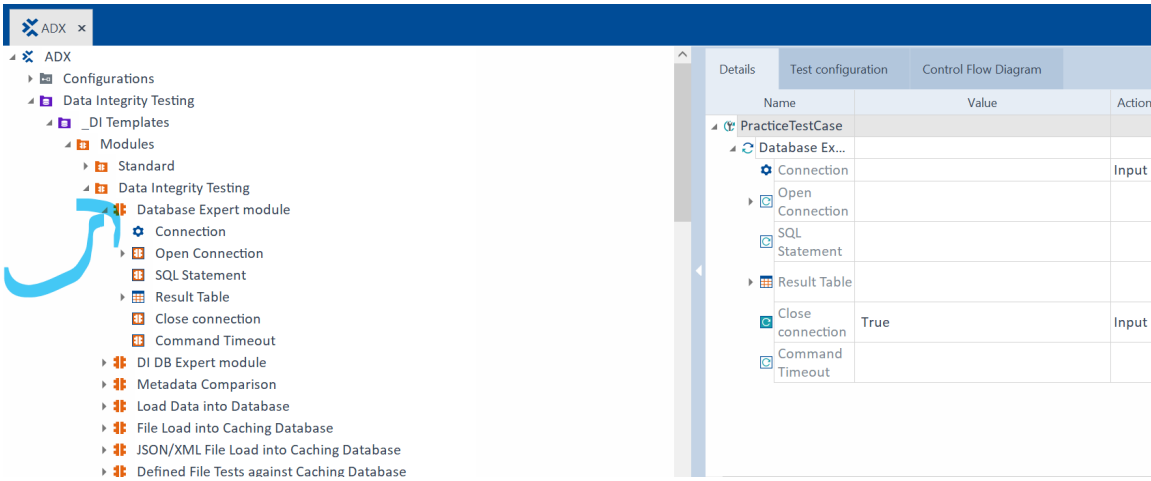
6. Click on save button and then close this window

Validate ADX data using TOSCA

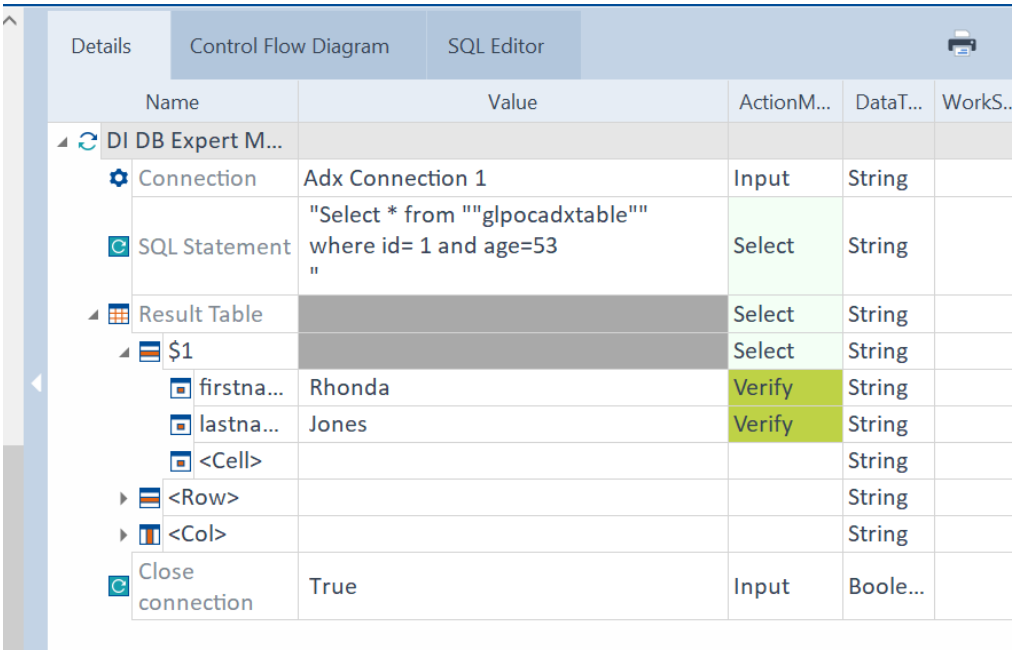
1. Create New Test case under Testcases folder by selecting option from the menu



2. Click on the newly created test case and add below module in that test case by simple drag and drop



3. Provide all inputs as below and run the test case in scratchbook


Details
Control Flow Diagram
SQL Editor
Name
Value
ActionM...
DataT...
WorkS...
DI DB Expert M...
Connection
Adx Connection 1
Input
String
SQL Statement
"Select * from ""glpocadxtable""
where id= 1 and age=53
"
Select
String
Result Table
Select
String
$1
Select
String
firstna...
Rhonda
Verify
String
lastna...
Jones
Verify
String
<Cell>
String
<Row>
String
<Col>
String
Close connection
True
Input
Boole...