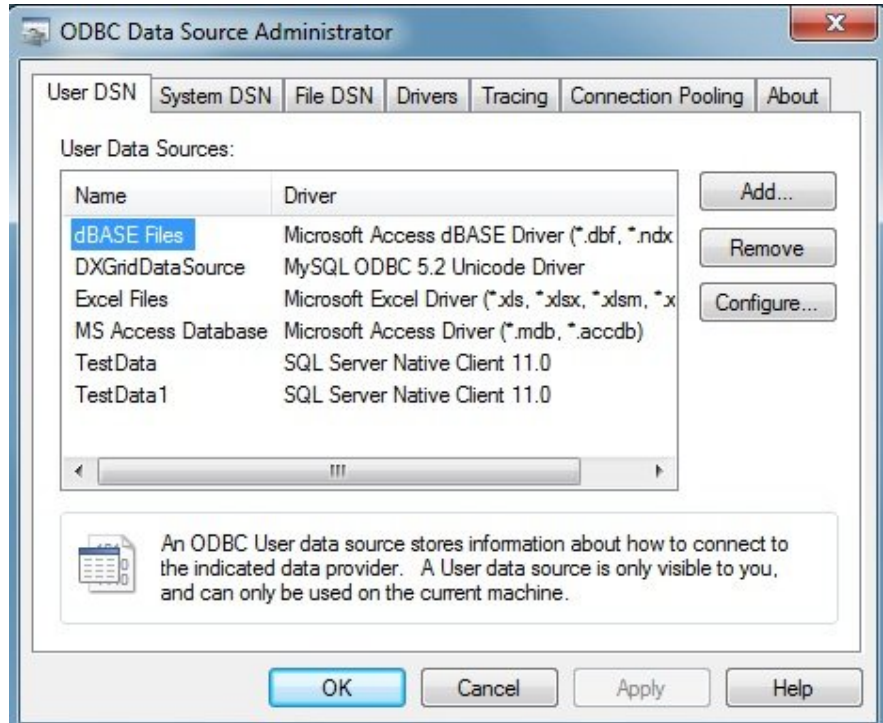


Java- SQL Server Connectivity

Creating an ODBC connection.

Step 1: Go to Control Panel -> System and Security->Administrative Tools-> Data source (ODBC)



Step: 2 Click the Add button

Step 3: Choose the SQL Server click finish

Step 4: Choose a name for the Datasource, example: TestData and choose the SQL server from the server drop down list. (Mat take time)

Note: If the server name does not appear in the list, go to Services from the Administrative Tools and start the SQL browser service.

Step 5 Use Windows authentication

Step 6: Change the default database to pubs

Step 7: Click next and then click finish

Objective: To explore Java-SQL connectivity by showing/updating the Authors table of pubs database.

```
import java.sql.*;
public class TestSQLJava
{
    Connection con;
    TestSQLJava()
    {
        createConnection();
        //showData();
        //showCustomData("172-32-1176");
        //updateData("172-32-1176", "CA");
    }
    void createConnection()
    {
        try
        {
            //Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            con=DriverManager.getConnection("jdbc:odbc:TestData"); }
        catch(Exception exp) { System.out.print("No Connection with DB"+exp); }
    }
    void showData()
    {
        try
        {
            Statement st=con.createStatement();
            ResultSet rs=st.executeQuery("Select * from Authors");
            System.out.println("Author ID: \tAuthor last name: ");
            while(rs.next())
                System.out.println(rs.getString(1)+"\t"+rs.getString(2));
        }
        catch(Exception exp) { System.out.print("Probleb with query result"+exp); }
    }
    void showCustomData(String au_id)
    {
        try
        {
            PreparedStatement pst=con.prepareStatement("Select * from Authors where au_id=?");
            pst.setString(1,au_id);
            ResultSet rs=pst.executeQuery();
            System.out.println("Author ID: \tAuthor last name: ");
            while(rs.next())
                System.out.println(rs.getString(1)+"\t"+rs.getString(2));
        }
        catch(Exception exp) {System.out.print("Probleb with query result"+exp); }
    }
    void updateData(String au_id, String state)
    {
        try
        {
            PreparedStatement pst=con.prepareStatement("update authors set state=? where au_id=?");
            pst.setString(1,state);
            pst.setString(2,au_id);
            pst.executeUpdate();
        }
        catch(Exception exp) { System.out.print("Probleb with query result"+exp); }
    }
    public static void main(String args[])
    {
        new TestSQLJava();
    }
}
```