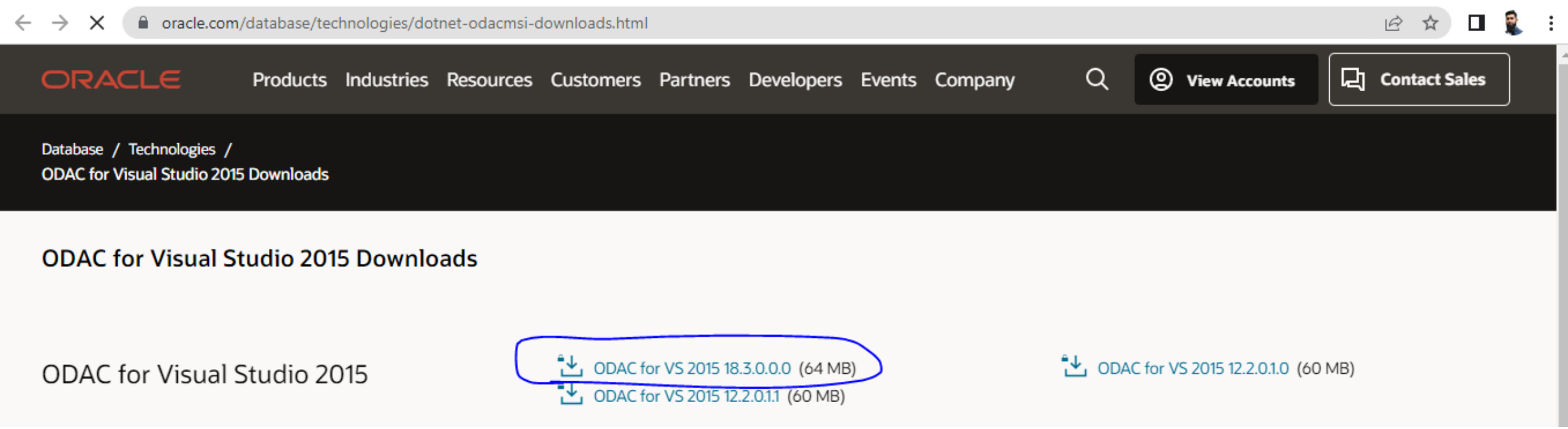
ORACLE DATABASE CONNECTIVITY with visual studio

Guidelines

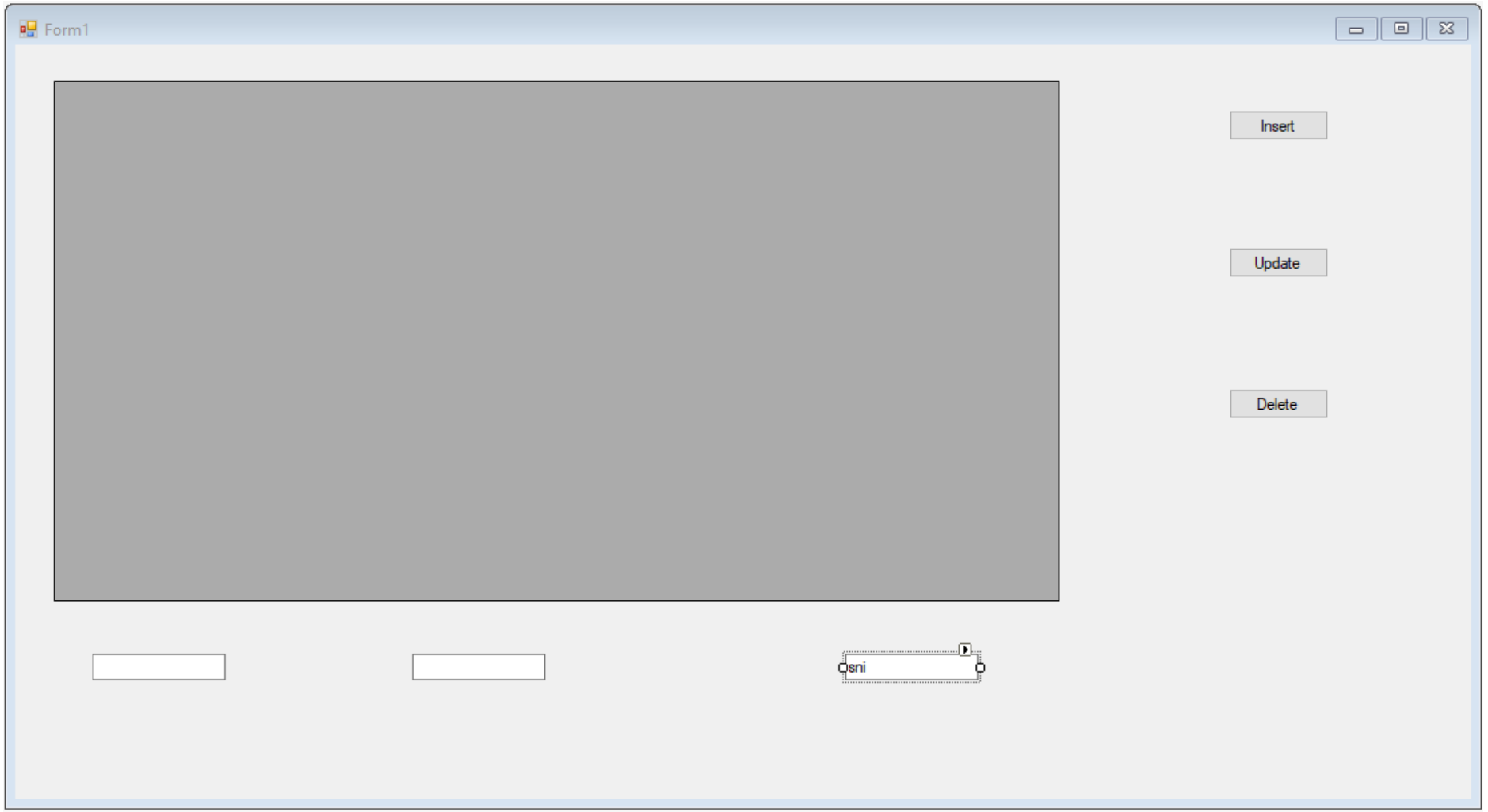
ODAC for Visual Studio 2015 Downloads

https://www.oracle.com/database/technologies/dotnet-odacmsi-downloads.html

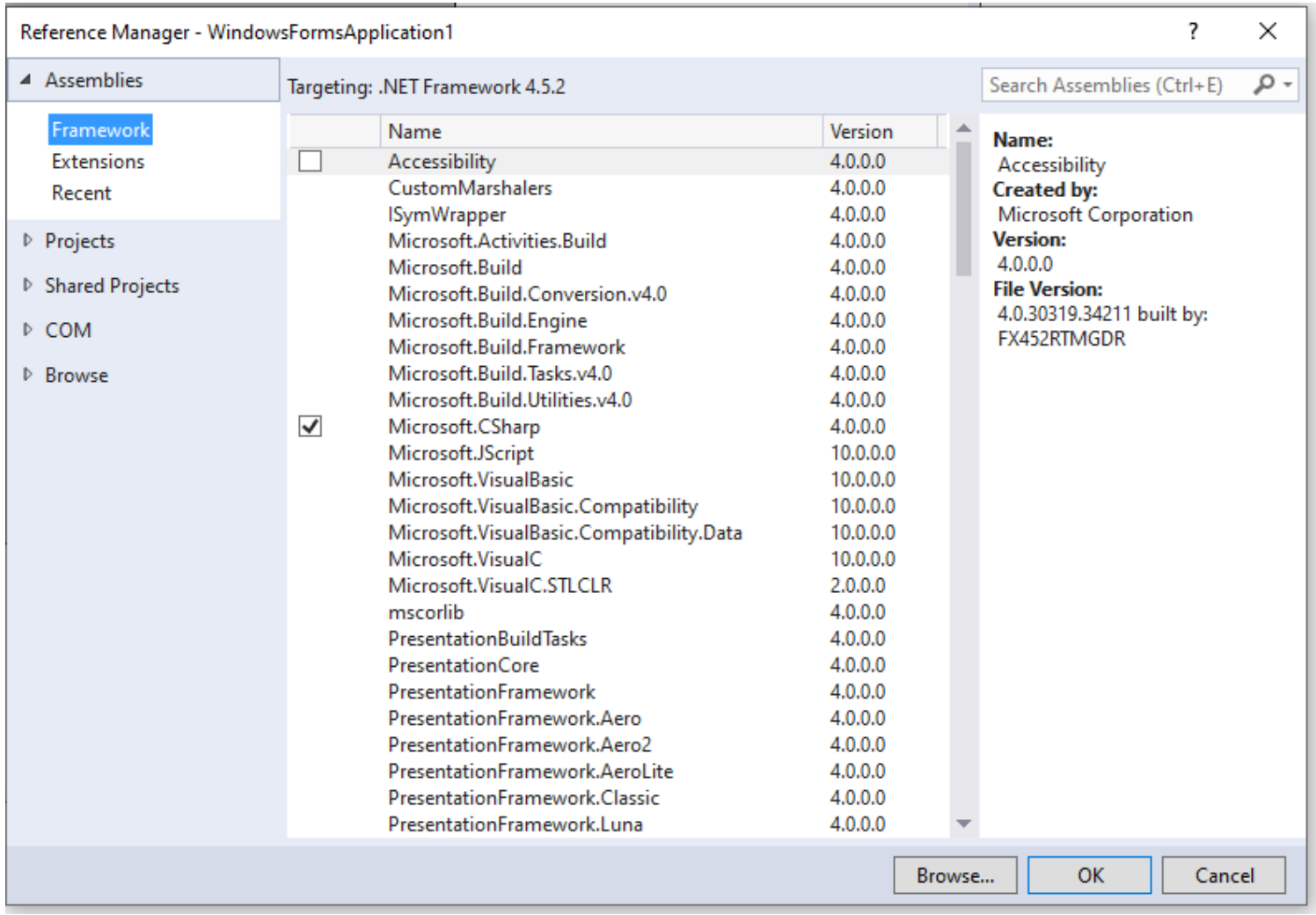
Install ODAC for connectivity of ORACLE.

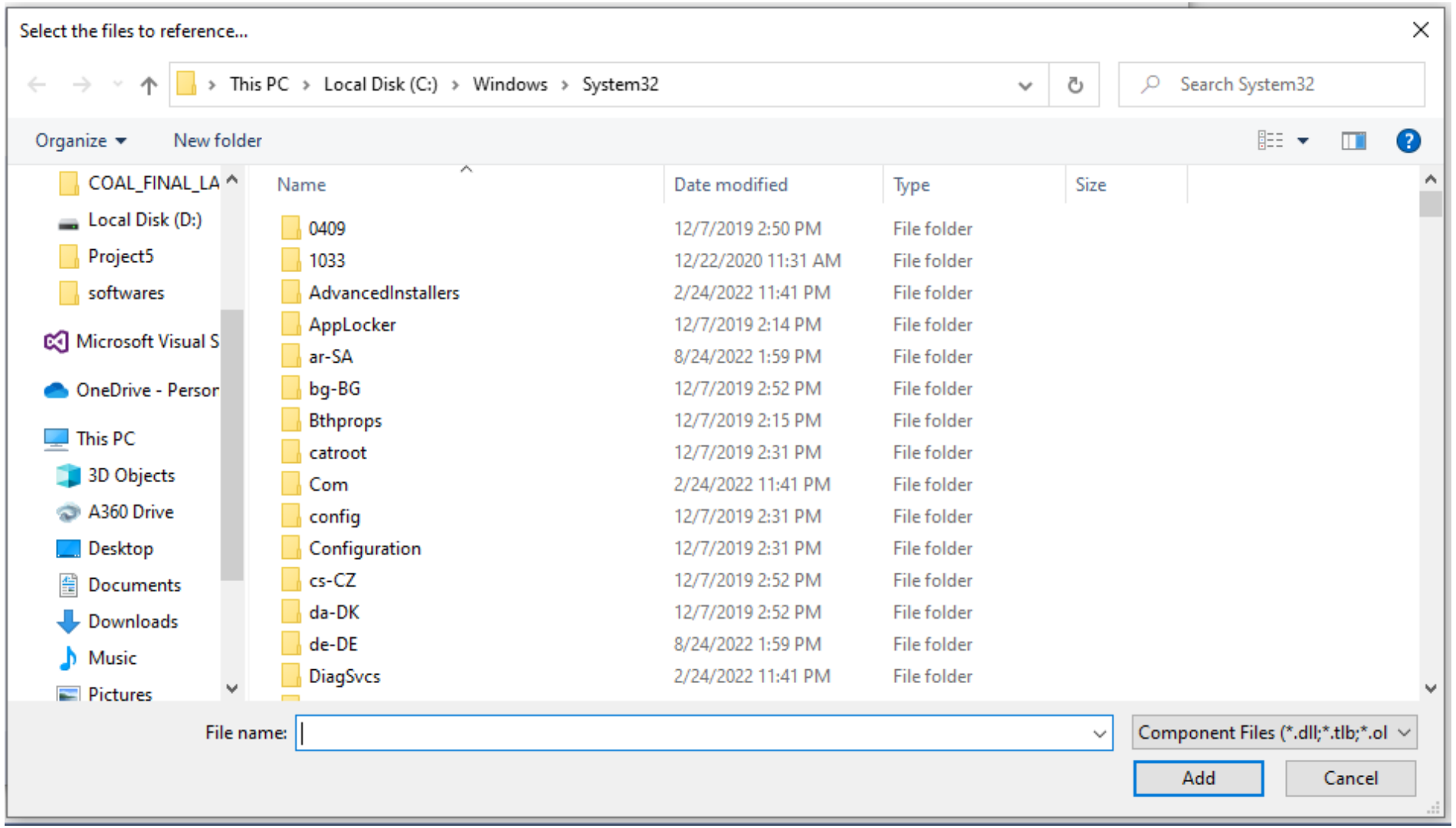


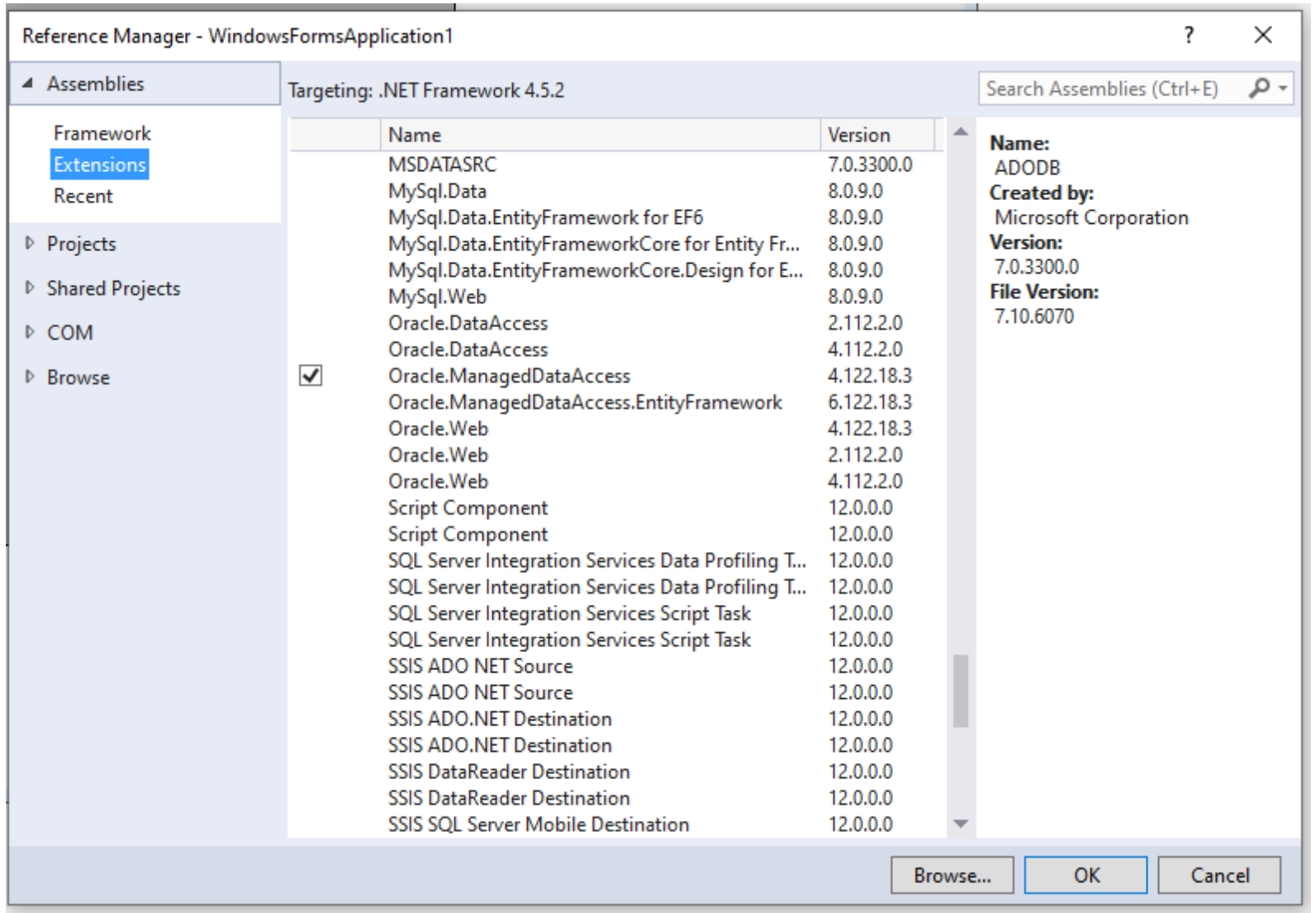
Create Front-End



Add Reference (Oracle.ManagedDataAccess)




Select the files to reference...
This PC
Local Disk (C:)
Windows
System32
Search System32
Organize
New folder
COAL_FINAL_LA
Local Disk (D:)
Project5
softwares
Microsoft Visual S
OneDrive - Persor
This PC
3D Objects
A360 Drive
Desktop
Documents
Downloads
Music
Pictures
Name
Date modified
Type
Size
0409 12/7/2019 2:50 PM File folder
1033 12/22/2020 11:31 AM File folder
AdvancedInstallers 2/24/2022 11:41 PM File folder
AppLocker 12/7/2019 2:14 PM File folder
ar-SA 8/24/2022 1:59 PM File folder
bg-BG 12/7/2019 2:52 PM File folder
Bthprops 12/7/2019 2:15 PM File folder
catroot 12/7/2019 2:31 PM File folder
Com 2/24/2022 11:41 PM File folder
config 12/7/2019 2:31 PM File folder
Configuration 12/7/2019 2:31 PM File folder
cs-CZ 12/7/2019 2:52 PM File folder
da-DK 12/7/2019 2:52 PM File folder
de-DE 8/24/2022 1:59 PM File folder
DiagSvcs 2/24/2022 11:41 PM File folder
File name:
Component Files (*.dll;*.tlb;*.ol
Add
Cancel


Reference Manager - WindowsFormsApplication1
Assemblies
Framework
Extensions
Recent
Projects
Shared Projects
COM
Browse
Targeting: .NET Framework 4.5.2
Search Assemblies (Ctrl+E)
Name
Version
MSDATASRC 7.0.3300.0
MySql.Data 8.0.9.0
MySql.Data.EntityFramework for EF6 8.0.9.0
MySql.Data.EntityFrameworkCore for Entity Fr... 8.0.9.0
MySql.Data.EntityFrameworkCore.Design for E... 8.0.9.0
MySql.Web 8.0.9.0
Oracle.DataAccess 2.112.2.0
Oracle.DataAccess 4.112.2.0
Oracle.ManagedDataAccess 4.122.18.3
Oracle.ManagedDataAccess.EntityFramework 6.122.18.3
Oracle.Web 4.122.18.3
Oracle.Web 2.112.2.0
Oracle.Web 4.112.2.0
Script Component 12.0.0.0
Script Component 12.0.0.0
SQL Server Integration Services Data Profiling T... 12.0.0.0
SQL Server Integration Services Data Profiling T... 12.0.0.0
SQL Server Integration Services Script Task 12.0.0.0
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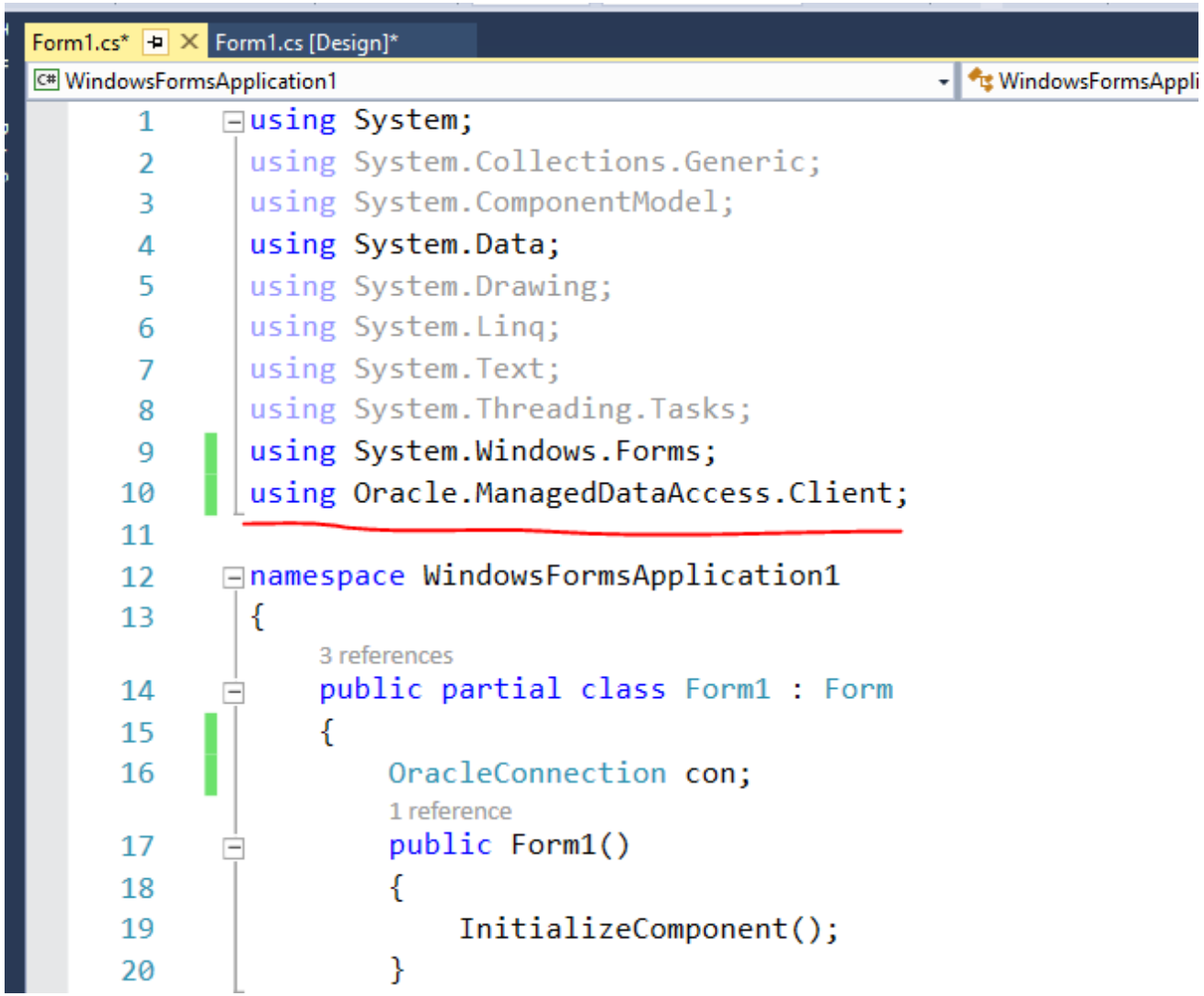
SSIS ADO NET Source 12.0.0.0
SSIS ADO NET Source 12.0.0.0
SSIS ADO.NET Destination 12.0.0.0
SSIS ADO.NET Destination 12.0.0.0
SSIS DataReader Destination 12.0.0.0
SSIS DataReader Destination 12.0.0.0
SSIS SQL Server Mobile Destination 12.0.0.0
Name:
ADODB
Created by:
Microsoft Corporation
Version:
7.0.3300.0
File Version:
7.10.6070
Browse...
OK
Cancel

Add Library


Form1.cs*
Form1.cs [Design]*
WindowsFormsApplication1
WindowsFormsAppli
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using Oracle.ManagedDataAccess.Client;
namespace WindowsFormsApplication1
{
3 references
public partial class Form1 : Form
{
OracleConnection con;
1 reference
public Form1()
{
InitializeComponent();
}

OracleConnection

```
namespace WindowsFormsApplication1
{
    3 references
    public partial class Form1 : Form
    {
        OracleConnection con;
        1 reference
        public Form1()
        {
            InitializeComponent();
        }
```

Add Connection and Data Source

```
1 reference
private void Form1_Load(object sender, EventArgs e)
{
    string conStr = @"DATA SOURCE = localhost:1521/xe; USER ID =saba; PASSWORD= 12345 ";
    con = new OracleConnection(conStr);
    updateGrid();

}
1 reference
```

Autocommit Rows 100 Save Run

```
select sys_context
('USERENV', 'INSTANCE_NAME') AS Instance
from dual
```

Results Explain Describe Saved SQL History

INSTANCE
xe

1 rows returned in 0.01 seconds Download

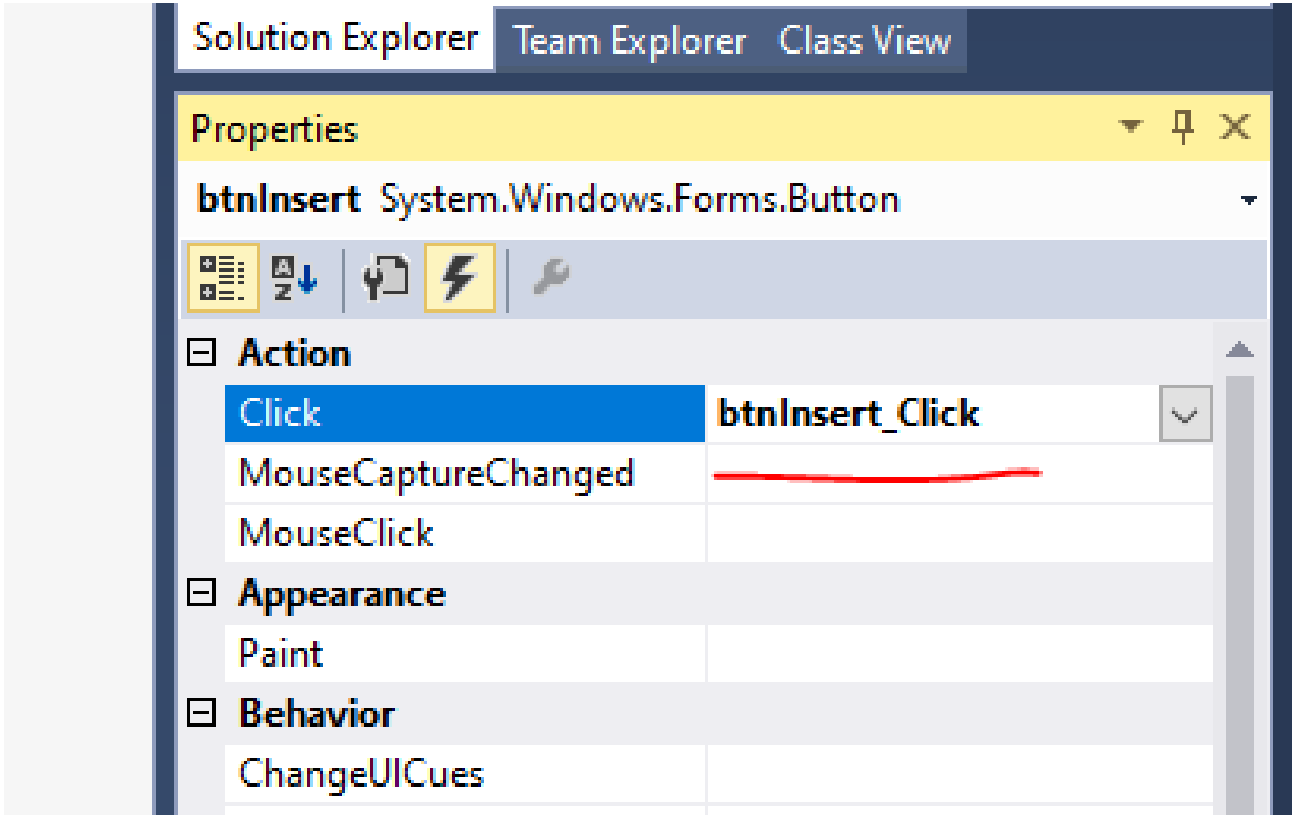
Create UpdateGrid

```
}
1 reference
private void updateGrid()
{
    con.Open();
    OracleCommand getEmps = con.CreateCommand();
    getEmps.CommandText = "SELECT * FROM DEPT";
    getEmps.CommandType = CommandType.Text;
    OracleDataReader empDR = getEmps.ExecuteReader();
    DataTable empDT = new DataTable();
    empDT.Load(empDR);
    dataGridView1.DataSource = empDT;


    con.Close();

}
```

Insert Button

```
1 reference
private void btnInsert_Click(object sender, EventArgs e)
{
    con.Open();
    OracleCommand insertEmp = con.CreateCommand();
    insertEmp.CommandText = "INSERT INTO DEPT VALUES(" + txtDeptNo.Text.ToString() +
        ",\'" + txtDeptName.Text.ToString() +
        "\',\'" + txtDeptLoc.Text.ToString() + "\')";
    insertEmp.CommandType = CommandType.Text;
    int rows = insertEmp.ExecuteNonQuery();
    if (rows > 0)
        MessageBox.Show("Data Inserted Successfully!");

    con.Close();
    updateGrid();
}
```

Create Reference of Insert Button



Delete Button

```
1 reference
private void btnDelete_Click(object sender, EventArgs e)
{
    con.Open();
    OracleCommand insertEmp = con.CreateCommand();
    insertEmp.CommandText = "DELETE FROM DEPT WHERE DEPTNO = " + txtDeptNo.Text.ToString();
    insertEmp.CommandType = CommandType.Text;
    int rows = insertEmp.ExecuteNonQuery();
    if (rows > 0)
        MessageBox.Show("Data DELETED Successfully!");

    con.Close();
    updateGrid();
}
}
```

Create Reference of Delete Button