

```

namespace Demo
{
    public partial class Form1 : Form
    {
        OracleConnection conn;
        OracleCommand comm;
        OracleDataAdapter da;
        DataSet ds;
        DataTable dt;
        DataRow dr;
        int i = 0;

        public Form1()
        {
            InitializeComponent();
        }

        public void connect1()
        {
            String oradb = "DATA SOURCE=ICTORCL;PERSIST SECURITY
INFO=True;USER ID=CC3007;Password=student";
            conn = new OracleConnection(oradb); // C#
            conn.Open();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            try
            {
                connect1();
                OracleCommand cm = new OracleCommand();
                cm.Connection = conn;
                cm.CommandText = "insert into demo values('" + textBox1.Text + "','" +
textBox2.Text + "')"; // if the type is varchar preceede the value by quote '
                cm.CommandType = CommandType.Text;
                cm.ExecuteNonQuery();
                MessageBox.Show("Inserted!");
                conn.Close();
            }
            catch (Exception esp)
            {
                MessageBox.Show("Caught");
            }
        }
    }
}

```

/*Executes statement against the connection and returns the number of rows affected. For UPDATE, INSERT, and DELETE statements, the return value is the number of rows affected by the command.*/

```

private void button2_Click(object sender, EventArgs e)
{
    connect1();
    comm = new OracleCommand();
    comm.CommandText = "select * from demo";
    comm.CommandType = CommandType.Text;
    ds = new DataSet();
    da = new OracleDataAdapter(comm.CommandText, conn);
    da.Fill(ds, "demo");
    dt = ds.Tables["demo"];
    int t = dt.Rows.Count;
    MessageBox.Show(t.ToString());
    dr = dt.Rows[i];
    textBox2.Text = dr["id"].ToString();
    textBox1.Text = dr["name"].ToString();
    conn.Close();
}

private void button3_Click(object sender, EventArgs e)
{
    try
    {
        connect1();
        OracleCommand cm = new OracleCommand();
        cm.Connection = conn;
        cm.CommandText = "DELETE FROM demo "+ " WHERE id " + " = " +
textBox2.Text ;
        cm.CommandType = CommandType.Text;
        cm.ExecuteNonQuery();
        MessageBox.Show("Deleted!");
        conn.Close();
    }
    catch (Exception ew)
    {
        Console.WriteLine("Error: " + ew);
        // Console.WriteLine(ew.StackTrace);
    }
}

private void button4_Click(object sender, EventArgs e)
{
    try
    {

```

```

connect1();
OracleCommand cm = new OracleCommand();
cm.Connection = conn;
cm.CommandText = "UPDATE demo " + " SET NAME " + " = " +
textBox1.Text + " WHERE ID =" +textBox2.Text ;
cm.CommandType = CommandType.Text;
cm.ExecuteNonQuery();
MessageBox.Show("updated!");
conn.Close();
}
catch (Exception ew)
{
    Console.WriteLine("Error: " + ew);
    // Console.WriteLine(ew.StackTrace);
}
}
}
}

```

Front End

The image shows a Windows Forms application window titled "Form1". Inside the window, there are two text boxes. The first text box is labeled "Name" and the second is labeled "ID". Below these text boxes, there are four buttons: "select", "Insert", "Delete", and "UPDATE". The "UPDATE" button is highlighted with a dashed border and small square handles, indicating it is currently selected or being edited.

DataBase:

Name	Null?	Type
NAME		VARCHAR2(20)
ID	NOT NULL	NUMBER(38)