```csharp
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");
            }
        }
```
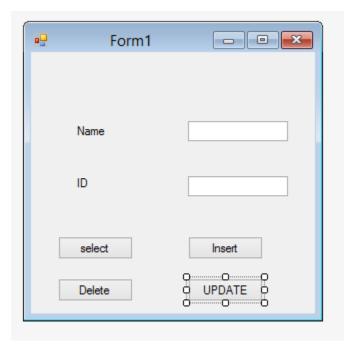
```csharp
private void button2_Click(object sender, EventArgs e)
{
    connect1();
    comm = new OracleCommand();
    comm.CommandText = "select * from demo";
    comm.CommandType = CommandType.Text;
    ds = new DataSet();
    da = new OracleDataAdapter(comm.CommandText, conn);
    da.Fill(ds, "demo");
    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

DataBase:

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