C#连接MySql数据库

笔记本： 我的第一个笔记本
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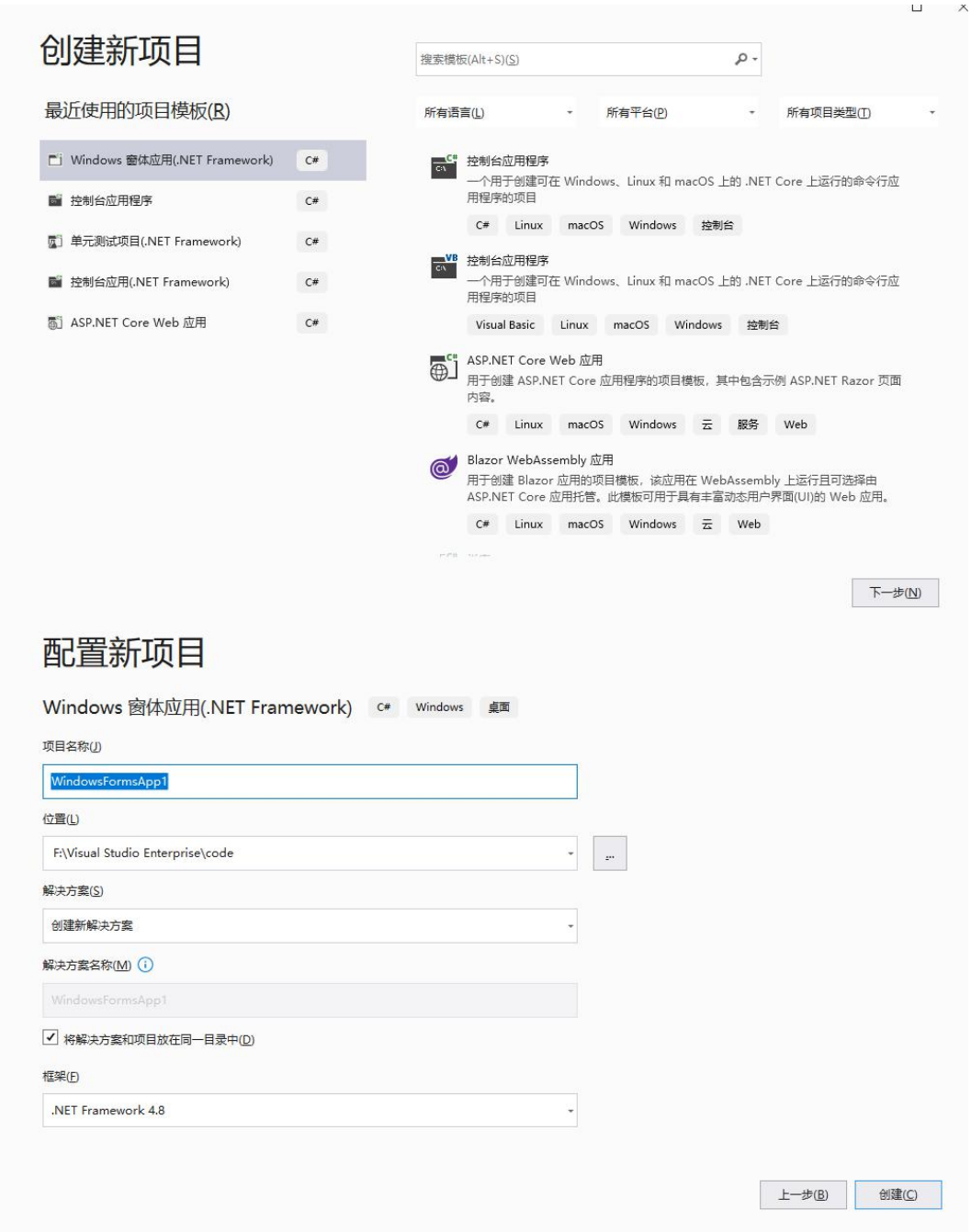
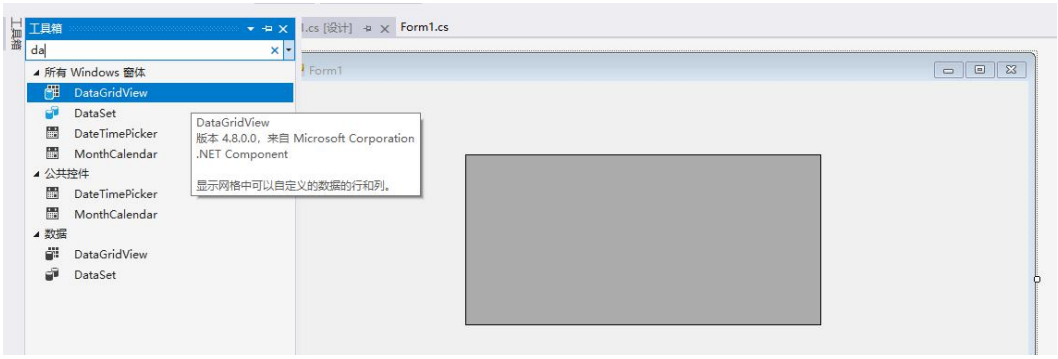
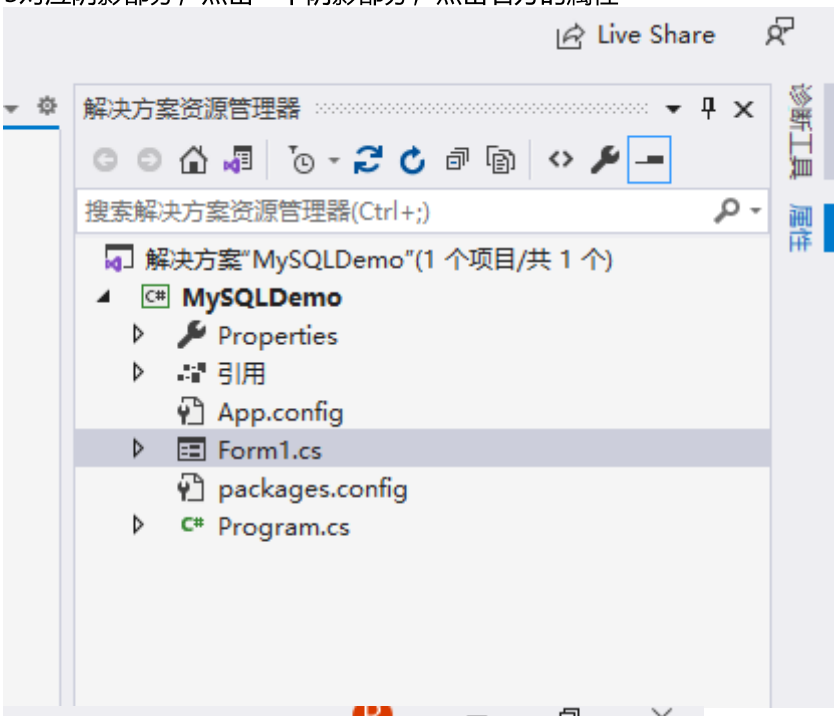
1.首先创建一个项目模板为Windows 窗体应用（.Net Framework）的模板

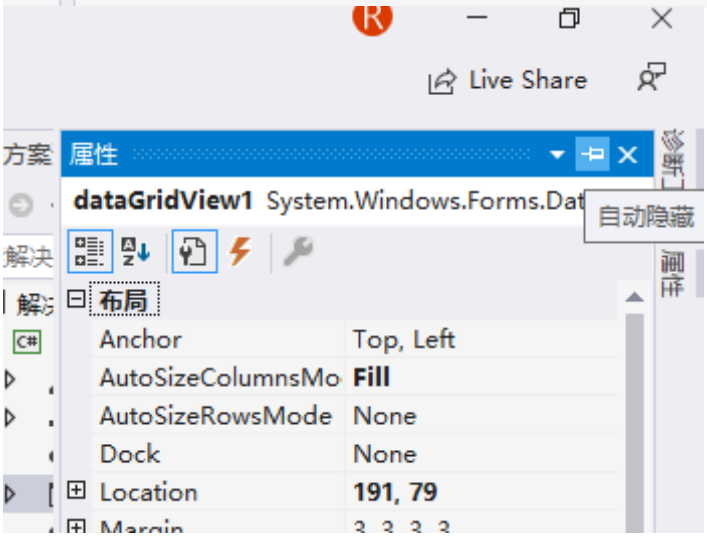


2.创建好了之后的点击Form1.cs，进行设计框架，点击左方的工具箱

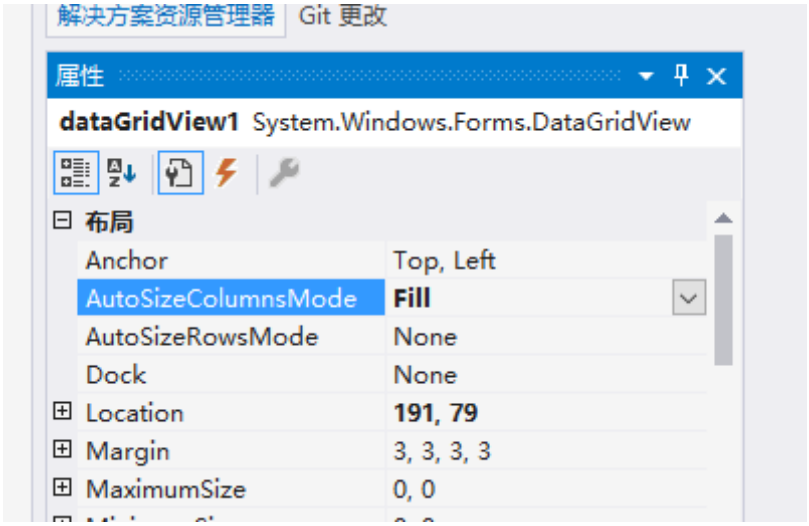


3对应阴影部分，点击一下阴影部分，点击右方的属性

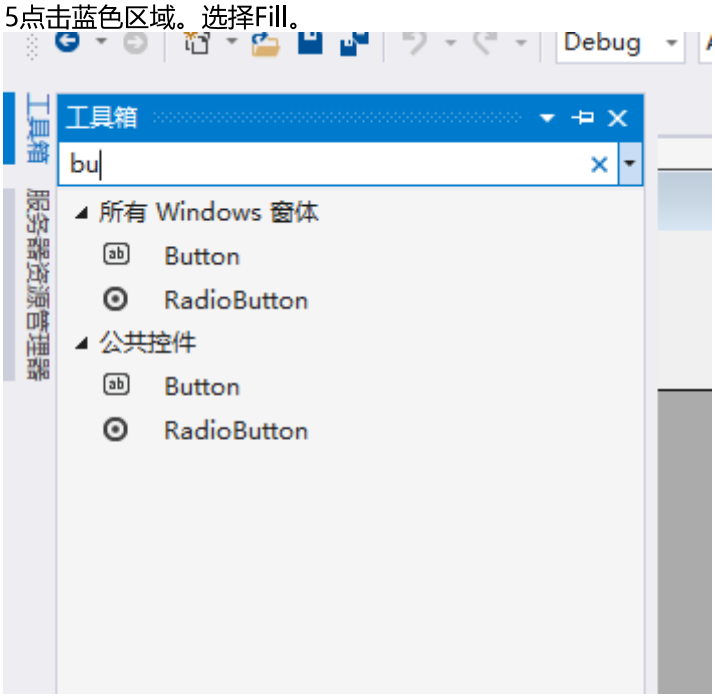




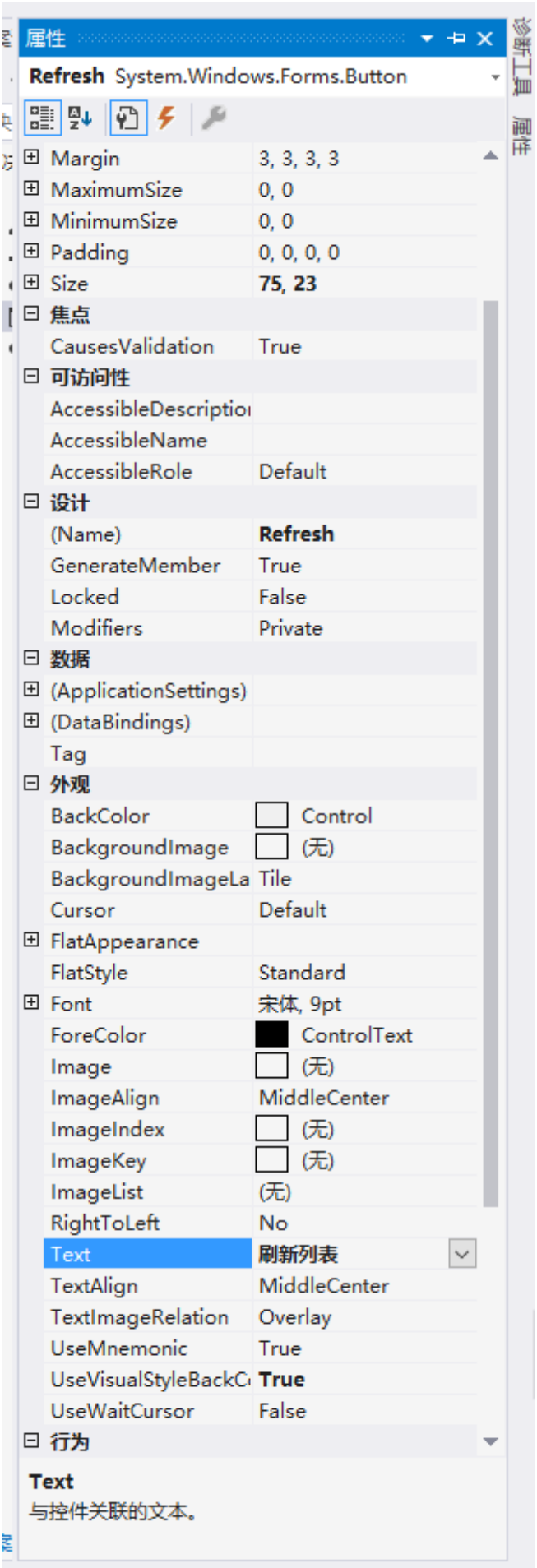
4点击中间的自动隐藏按钮可以固定。根据自己的需要来。



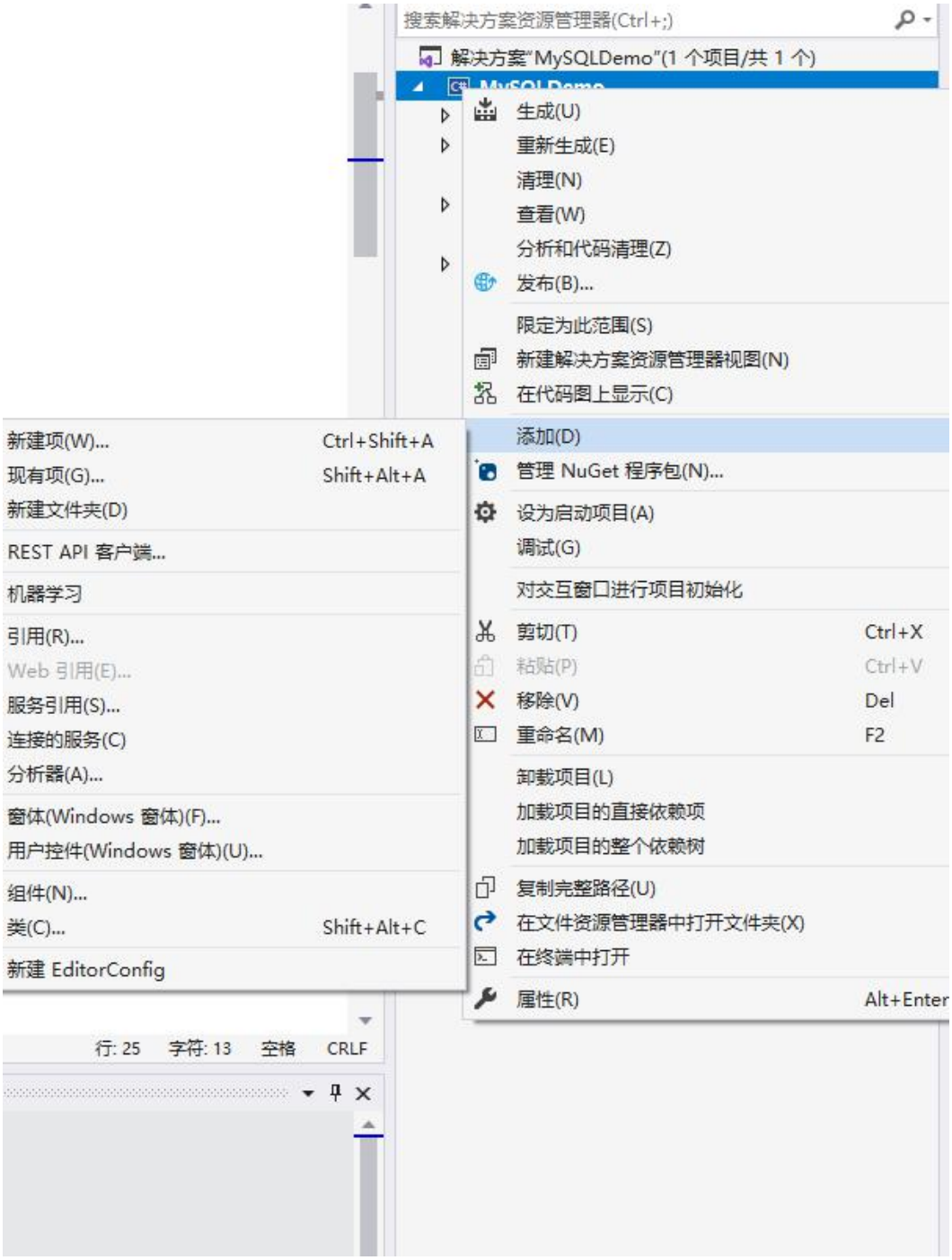
5点击蓝色区域。选择Fill。



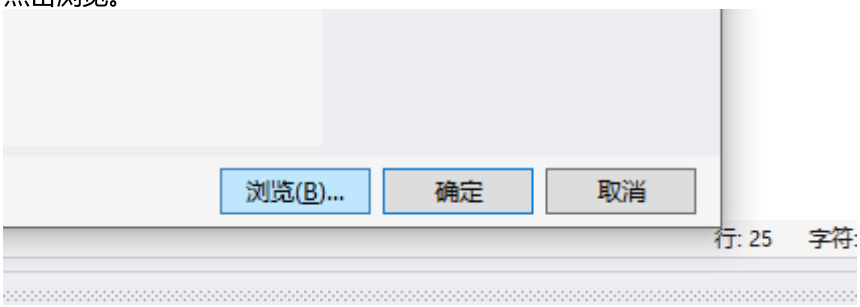
6搞出两个按钮。Win和公共的都可以。
点击其中一个



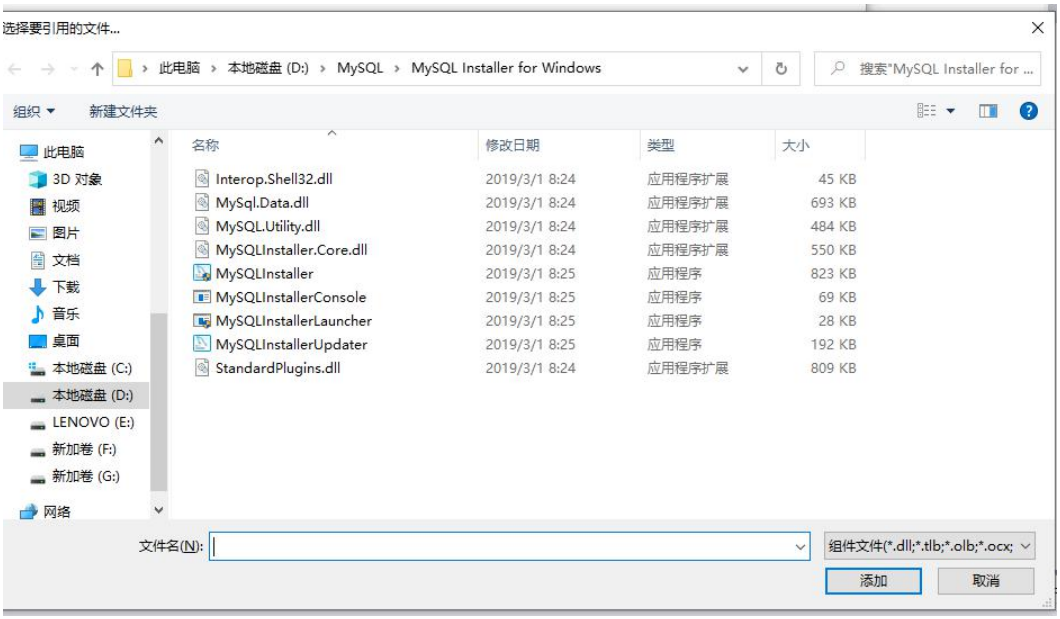
7修改Text和设计里的Name就可以了。 另一个按钮也是同理。
8点击框体的空白处，进入Form1.cs，进行数据库的连接和数据的显示。



9右击项目选择添加中的引用。
点击浏览。

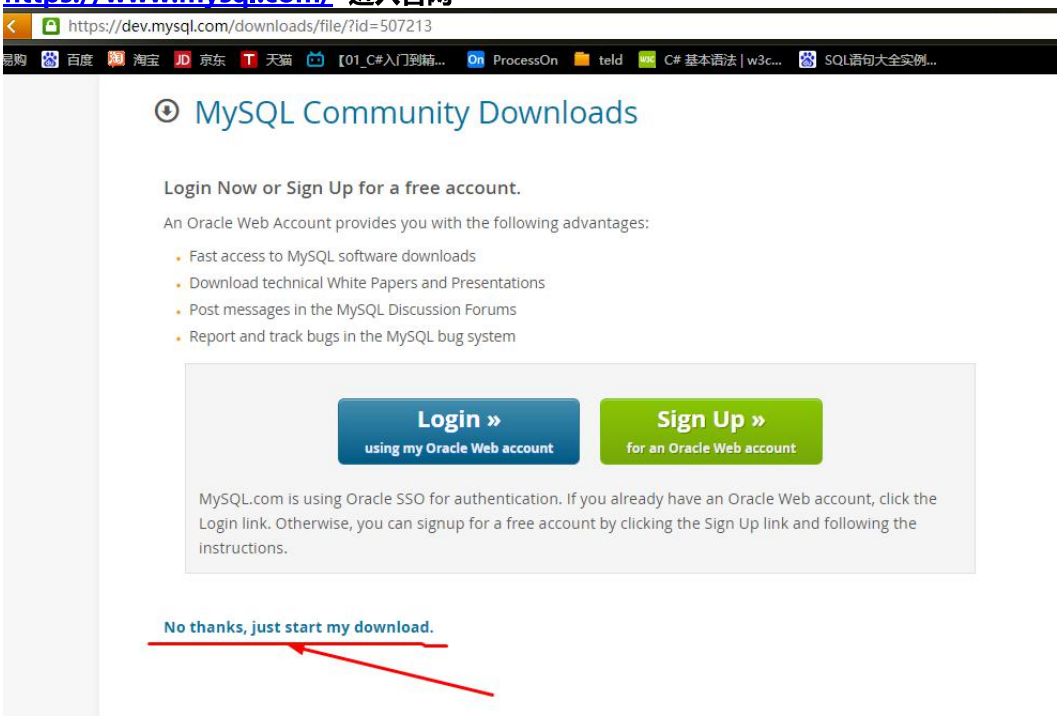


10选择你下载的Mysql下的MySql.Data.dll文件。(找不到就在官网上下载:**https://www.mysql.com/**)



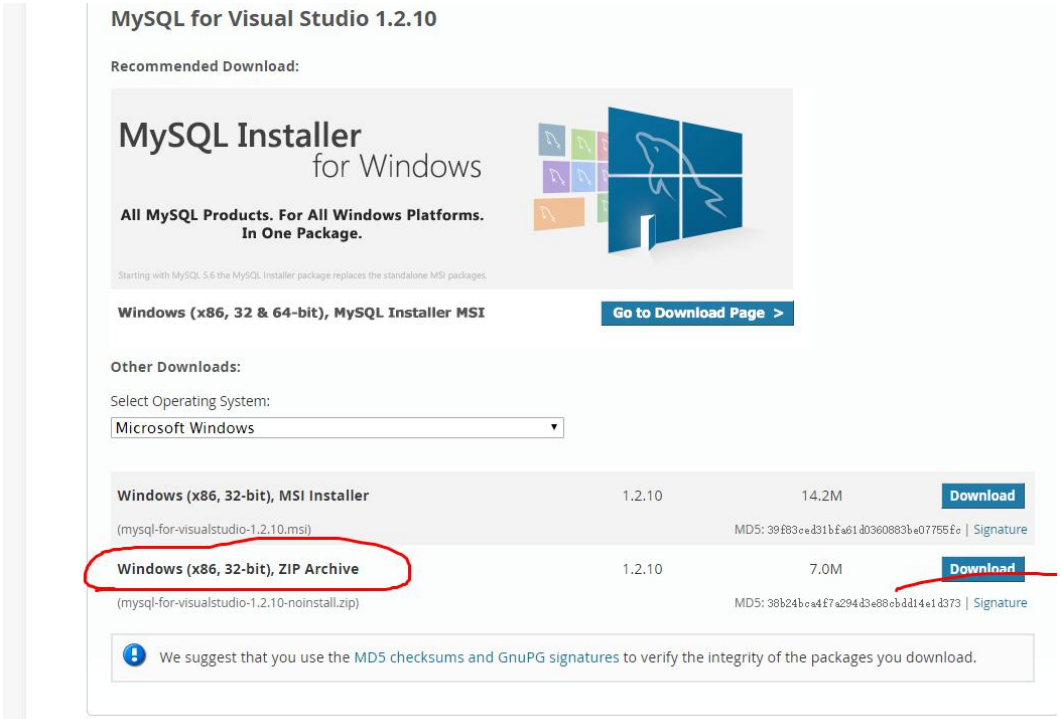
下载Mysql.data.dll：

https://www.mysql.com/ 进入官网

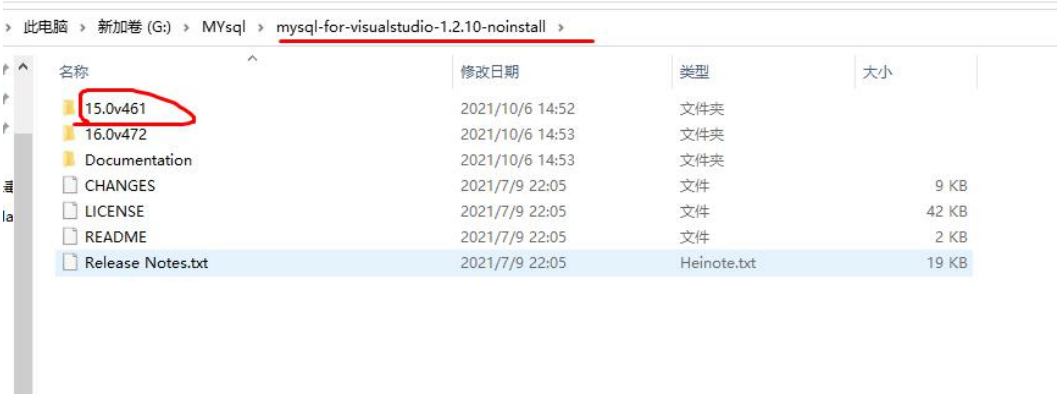


点击红线处。

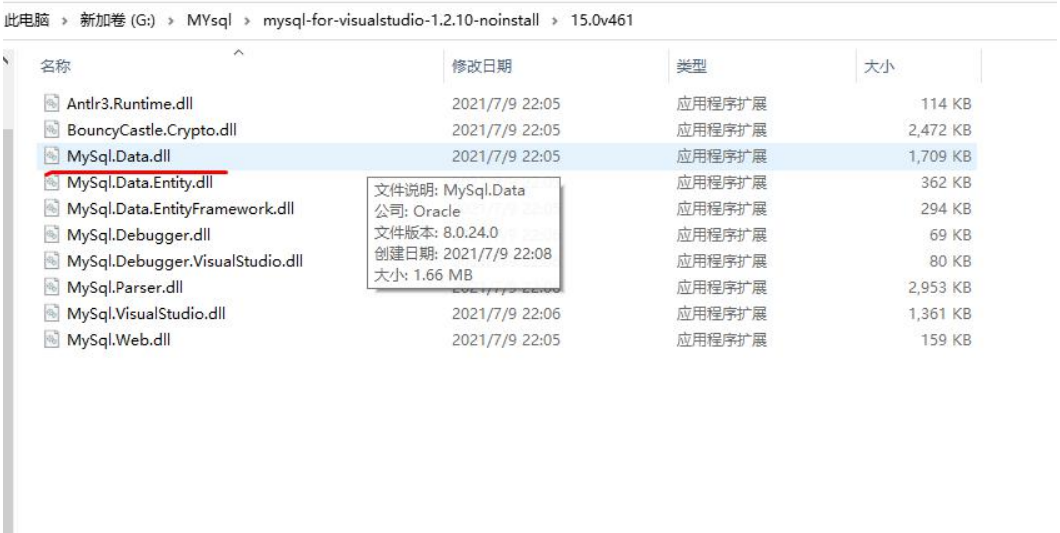
进入下一步：



下载解压。



点击进入，找到你要的文件复制到你的项目引用下边就可以了。



11点击添加。

12具体代码：

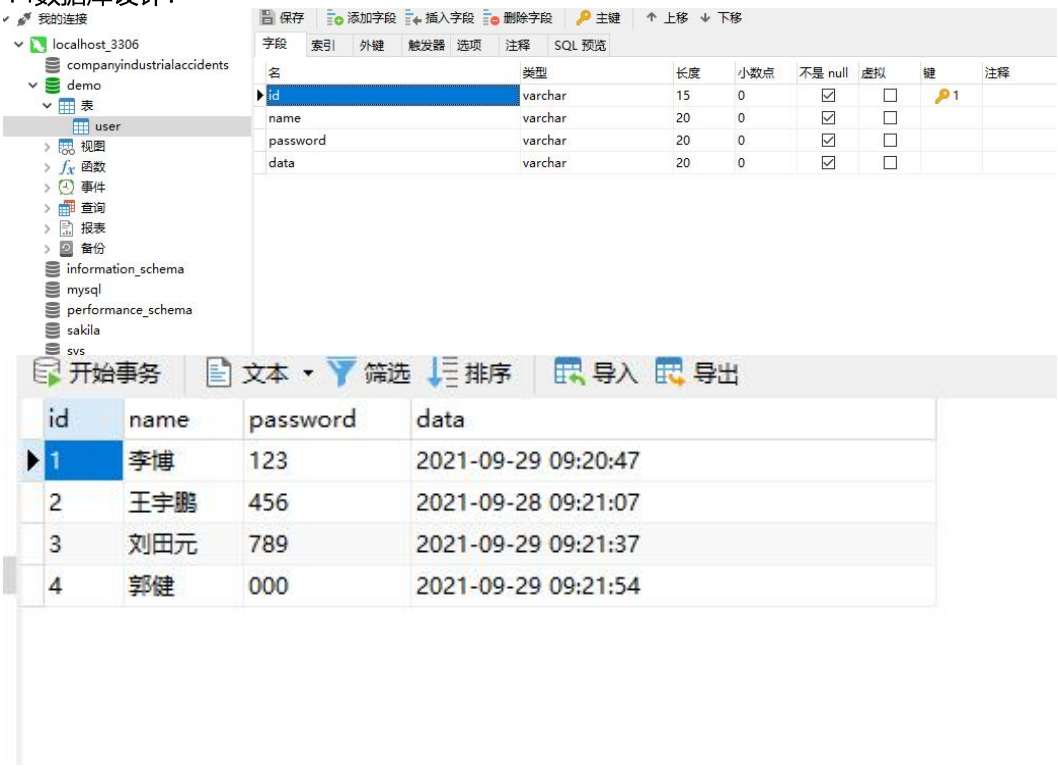
```
namespace MySQLDemo
{
        publicpartialclassForm1 : Form
        {

                //变量设置
                privatestring SQL_ConnectStr = "server =
127.0.0.1;port=3306;user=root;password=root;database=demo;Charset=utf8;";
```

```
                public MySqlConnection MySqlConnection;
                MySqlDataAdapter mySqlDataAdapter;
                DataSet dataSet;
                publicForm1()
                {
                        InitializeComponent();
                }

                privatevoid Form1_Load(object sender, EventArgs e)
                {
                        Database_connection();
                        Database_Select_test(MySqlConnection);
                        Database_Select_All(MySqlConnection);

                }

                publicvoid Database_connection() //数据库连接函数
                {
                        try
                        {
                                MySqlConnection = new
MySqlConnection(SQL_ConnectStr);
                        }
                        catch (Exception exception)
                        {
                                Console.WriteLine(exception);
                        }
                        finally
                        {
                                Console.WriteLine("数据库连接成功");
                        }
                }

                publicvoid Database_Select_test(MySqlConnection mySqlConnection)
//测试查询输出
                {
                        try
                        {
                                if (mySqlConnection != null)
                                        mySqlConnection.Open();   //打开通道
                                Console.WriteLine("查询通道打开");

                                string sql_select = "SELECT * FROM user ";
                                MySqlCommand mySqlCommand = new
MySqlCommand(sql_select,   mySqlConnection);
                                MySqlDataReader reader =
mySqlCommand.ExecuteReader();
                                while (reader.Read())
                                {
                                        string id = reader.GetString("id");
                                        string name = reader.GetString("name");
                                        string password =
reader.GetString("password");
                                        string data = reader.GetString("data");
                                        Console.WriteLine(id + name + password +
data);
                                }
                        }
                        catch (Exception exception)
                        {
                                Console.WriteLine(exception);
                        }
                        finally
                        {
                                mySqlConnection.Close();
                        }

                }
```

```
        publicvoid Database_Select_All(MySqlConnection mySqlConnection)
        {
                try
                {
                        if (mySqlConnection != null)
                                mySqlConnection.Open();   //打开通道
                        Console.WriteLine("查询通道打开1");
                        string sql_select = "SELECT * FROM user";
                        MySqlCommand mySqlCommand = new
MySqlCommand(sql_select,   mySqlConnection);
                        //将查询结果绑定微dataview数据源
                        mySqlDataAdapter = new
MySqlDataAdapter(mySqlCommand);
                        dataSet = new DataSet();
                        mySqlDataAdapter.Fill(dataSet,"user");
                        dataGridView1.DataSource = dataSet;
                        dataGridView1.DataMember = "user";
                }
                catch (Exception exception)
                {
                        Console.WriteLine(exception);
                }
                finally
                {
                        mySqlConnection.Close();
                }
        }
        privatevoid bt_Refresh_Click(object sender, EventArgs e)
        {
                dataSet.Tables["user"].Clear();
                mySqlDataAdapter.Fill(dataSet,"user");
        }

        privatevoid bt_SubmitAndSave_Click(object sender, EventArgs e)
        {
                MySqlCommandBuilder mySqlCommandBuilder = new
MySqlCommandBuilder(mySqlDataAdapter);
                mySqlDataAdapter.Update(dataSet,"user");
        }

        privatevoid backgroundWorker1_DoWork(object sender,
System.ComponentModel.DoWorkEventArgs e)
        {

        }

        privatevoid button1_Click(object sender, EventArgs e)
        {

        }

        privatevoid dataGridView1_CellContentClick(object sender,
DataGridViewCellEventArgs e)
        {

        }
    }
```

13运行成功后的界面：

14数据库设计：



到这里就结束了。