



ACESSO AO BANCO MYSQL COM C# 2010

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NO MYSQL, CRIAR BANCO E TABELA

The screenshot shows the phpMyAdmin interface for a MySQL server. The current server is 'MySQL'. The database selected is '2019frutal'. The table being created is named 'agenda'. The interface shows the 'Estrutura' (Structure) tab, where the table's columns are defined. The columns are:

Nome	Tipo	Tamanho/Valores*	Predefinido	Agrupamento (Collation)	Atributos	Nulo	Índice
id	INT		None			<input type="checkbox"/>	PRIMARY
nome	VARCHAR	255	None			<input type="checkbox"/>	---
celular	VARCHAR	25	None			<input checked="" type="checkbox"/>	---
email	VARCHAR	255	None			<input checked="" type="checkbox"/>	---

Additional settings shown include:

- Comentários da tabela: (empty)
- Collation: (empty)
- Motor de armazenamento: InnoDB
- PARTITION definition: (empty)

Buttons at the bottom right include 'Pré-visualizar SQL' and 'Guarda'.

NO MYSQL, INSIRA ALGUNS REGISTROS

The screenshot shows the phpMyAdmin interface for a MySQL database. The current server is 'MySQL'. The database is '2019frutal' and the table is 'agenda'. The table structure is as follows:

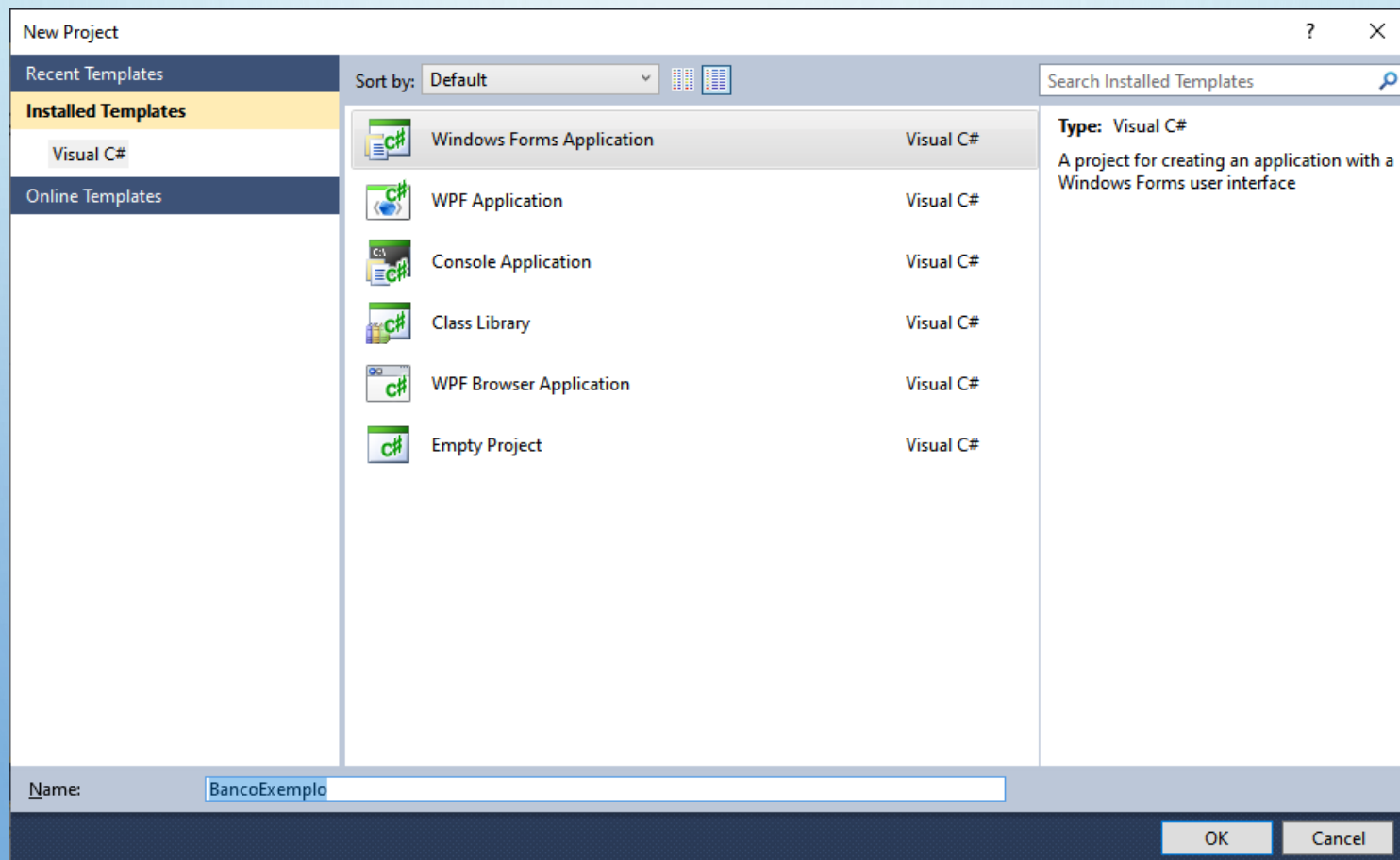
Coluna	Tipo	Funções	Nulo	Valor
id	int(11)			
nome	varchar(255)			Sérgio Carlos Portari Júnior
celular	varchar(25)		<input type="checkbox"/>	34-99111-0949
email	varchar(255)		<input type="checkbox"/>	portari.uemfrutal@gmail.com

Below the structure, there is an 'Executar' button and an 'Ignora' checkbox. The data entry form is as follows:

Coluna	Tipo	Funções	Nulo	Valor
id	int(11)			
nome	varchar(255)			UEMG - Unidade Frutal
celular	varchar(25)		<input type="checkbox"/>	34-3423-2700
email	varchar(255)		<input checked="" type="checkbox"/>	frutal@uemg.br

At the bottom, there is a dropdown menu set to 'Insira como novo registro', a 'and then' dropdown, and a 'Voltar atrás' button. The console is visible at the bottom left.

NO VS2010, CRIE O NOVO PROJETO WINDOWSFORM



CRIE LABELS PARA MOSTRARMOS O CONTEÚDO DO BANCO

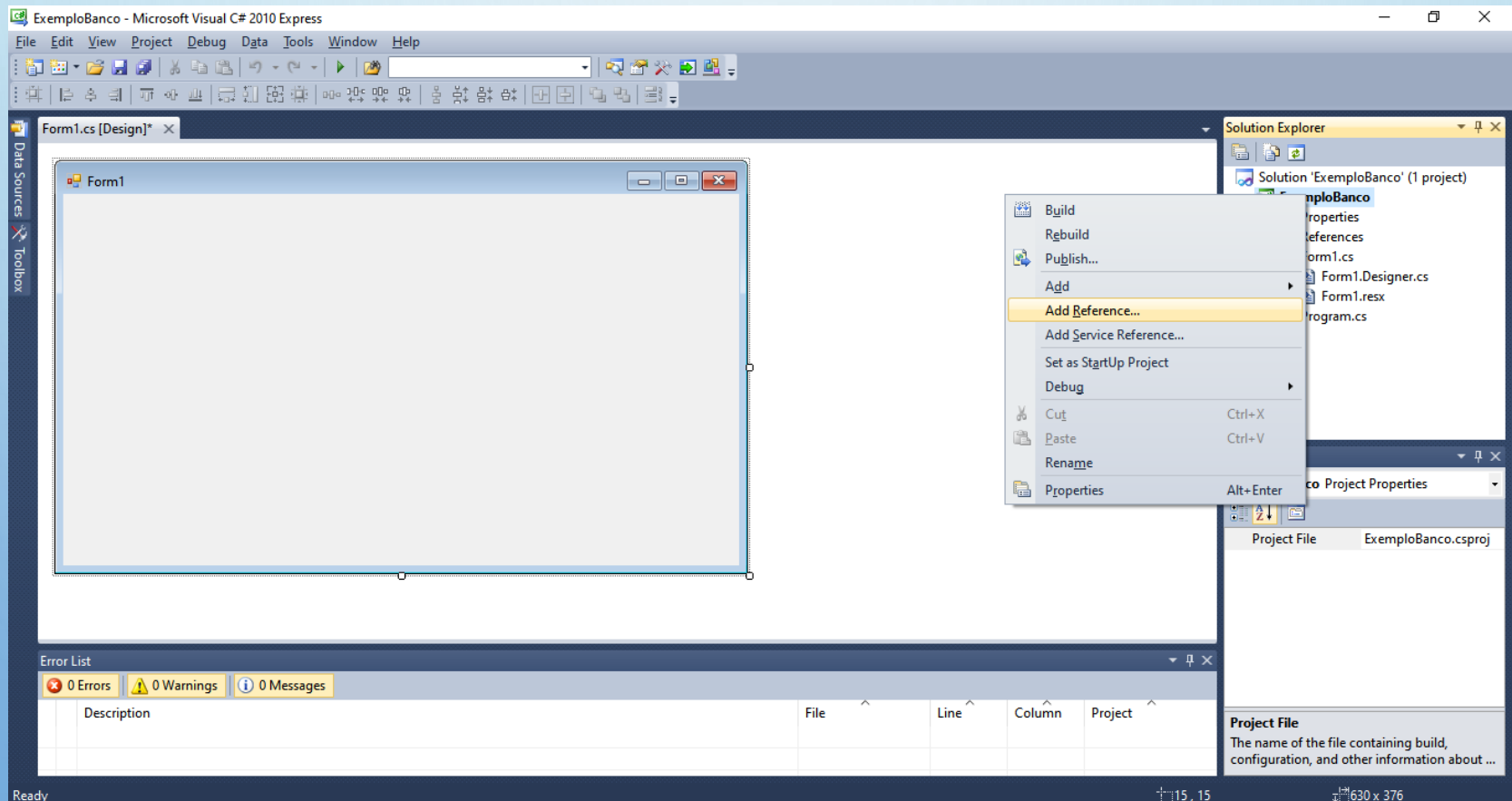
The screenshot displays the Microsoft Visual C# 2010 Express IDE. The main window shows a Windows Form named 'Form1' in design mode. The form contains four labels with the following text:

- Id: label2
- Nome: label3
- Fone: label5
- E-mail: label7

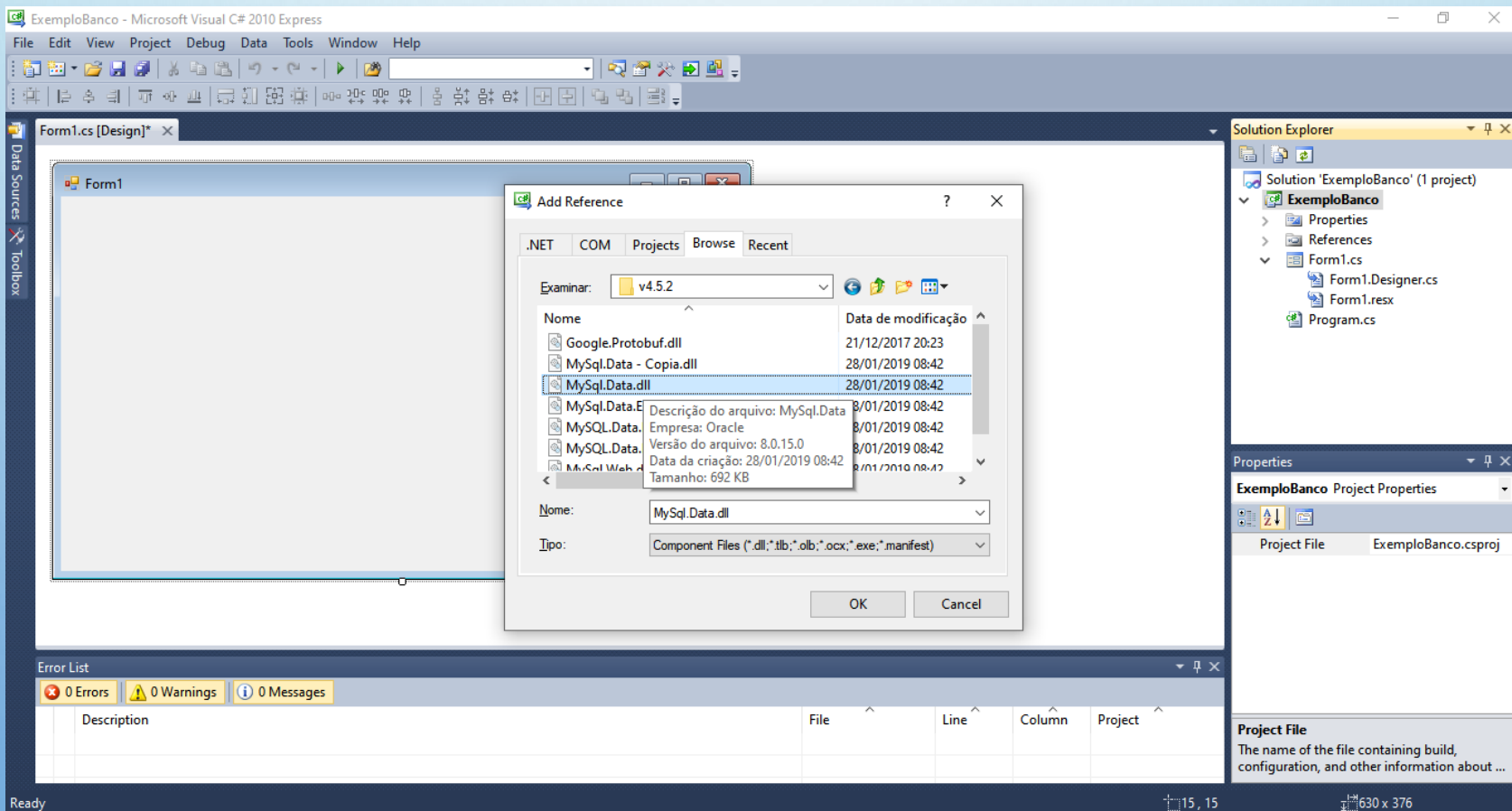
The Solution Explorer on the right shows the project structure, including references to Microsoft.CSharp, MySql.Data, and System. The Properties window shows the form's properties, including Size (630; 376) and Text (Form1). The Error List at the bottom shows 0 Errors, 0 Warnings, and 0 Messages.

Description	File	Line	Column	Project

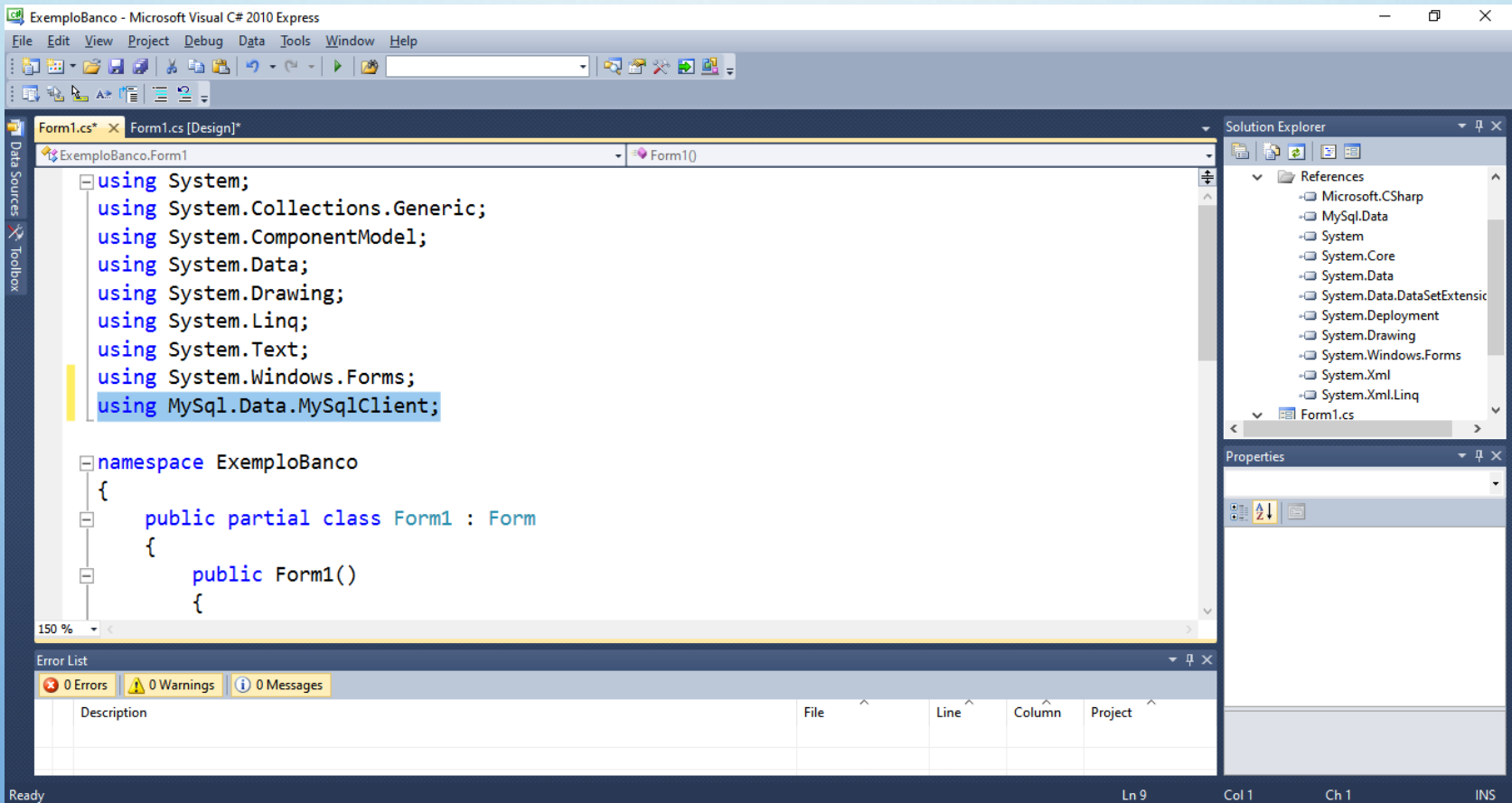
BOTÃO DIREITO E ADD REFERENCE OU MENU PROJECT > ADD REFERENCE



CLIQUE EM BROWSE E ACHE C:\ARQUIVOS DE PROGRAMA\MYSQL...



ADICIONE A REFERÊNCIA AO CÓDIGO



The screenshot displays the Microsoft Visual C# 2010 Express IDE. The main window shows the code for 'Form1.cs' in Design view. The code includes several 'using' statements, with 'using MySQL.Data.MySqlClient;' highlighted in blue. The Solution Explorer on the right shows the project structure, including references to various assemblies such as 'Microsoft.CSharp', 'MySQL.Data', 'System', 'System.Core', 'System.Data', 'System.Data.DataSetExtensions', 'System.Deployment', 'System.Drawing', 'System.Windows.Forms', 'System.Xml', and 'System.Xml.Linq'. The Properties window is empty. The Error List at the bottom shows 0 Errors, 0 Warnings, and 0 Messages. The status bar at the bottom indicates 'Ready', 'Ln 9', 'Col 1', 'Ch 1', and 'INS'.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using MySQL.Data.MySqlClient;

namespace ExemploBanco
{
    public partial class Form1 : Form
    {
        public Form1()
        {

```


VAMOS TESTAR A CONEXÃO NO FORM_LOAD()

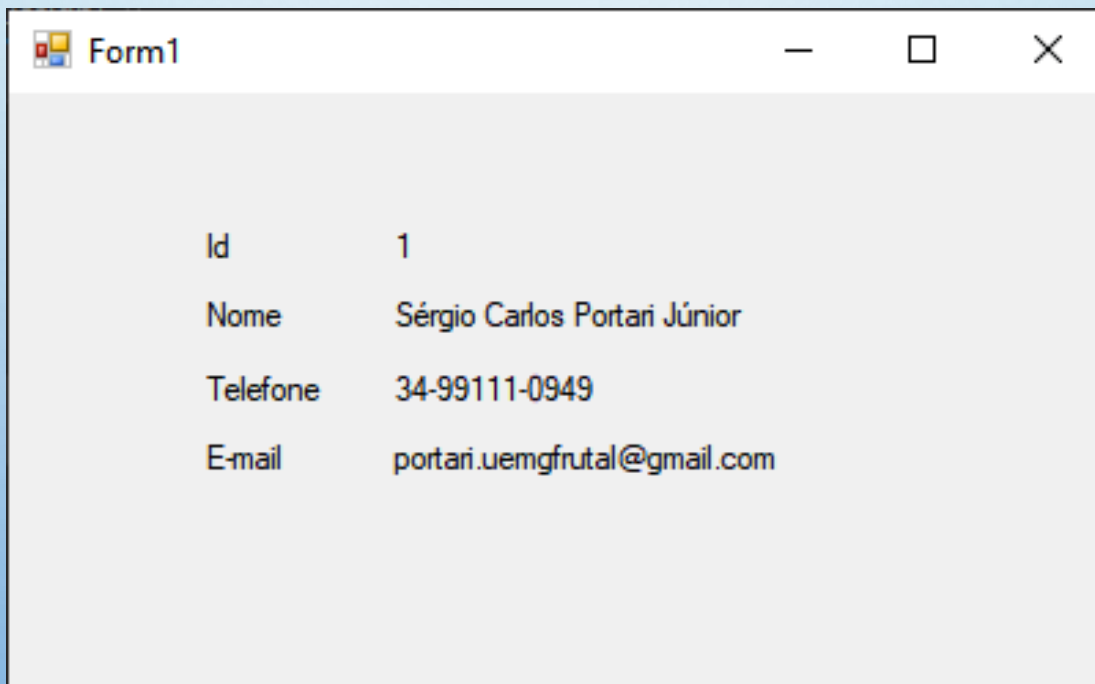
```
private void Form1_Load(object sender, EventArgs e)
{
    MySqlConnection cn = new MySqlConnection("Server=localhost; uid=root; pwd=; database=2019frutal");
    MySqlCommand cmd = new MySqlCommand();
    cn.Open();
    cmd.Connection = cn;
    cmd.CommandText = "Select * from agenda";
    MySqlDataReader rs;
    rs = cmd.ExecuteReader();
    if (rs.HasRows)
    {
        rs.Read();
        label2.Text = rs["id"].ToString();
        label3.Text = rs["nome"].ToString();
        label5.Text = rs["celular"].ToString();
        label7.Text = rs["email"].ToString();
    }
    cn.Close();
}
```

Nome ou IP Usuário Senha nome do banco

tabela

Campos da tabela

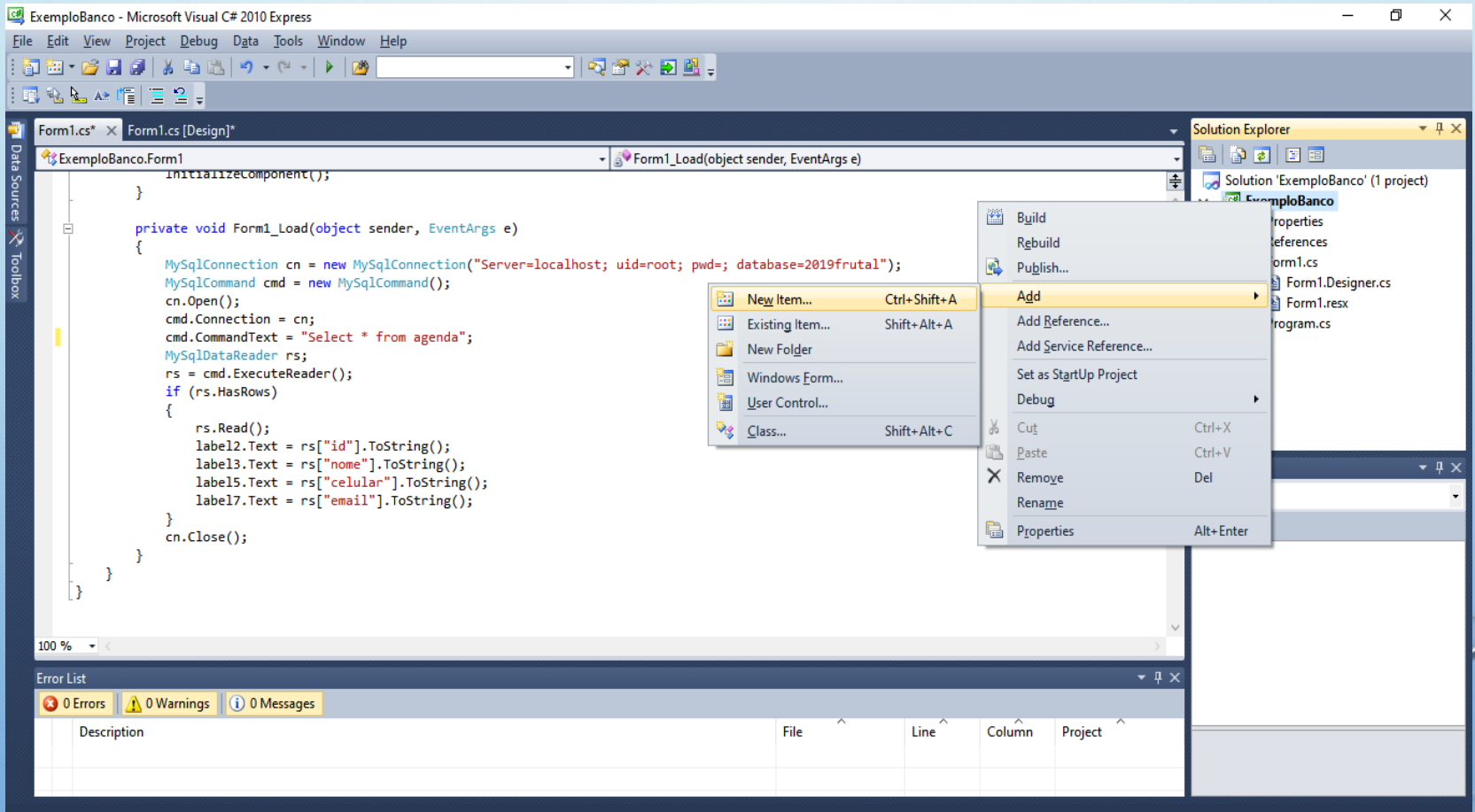
EXECUÇÃO (SE TUDO ESTIVER OK)



A screenshot of a Windows application window titled "Form1". The window contains a list of user information displayed in a simple text format. The information is as follows:

Id	1
Nome	Sérgio Carlos Portari Júnior
Telefone	34-99111-0949
E-mail	portari.uemgfrutal@gmail.com

PODEMOS MELHORAR...



The screenshot shows the Microsoft Visual C# 2010 Express IDE. The main window displays the code for `Form1.cs` in Design mode. The code is as follows:

```
InitializeComponent();  
}  
  
private void Form1_Load(object sender, EventArgs e)  
{  
    MySqlConnection cn = new MySqlConnection("Server=localhost; uid=root; pwd=; database=2019frutal");  
    MySqlCommand cmd = new MySqlCommand();  
    cn.Open();  
    cmd.Connection = cn;  
    cmd.CommandText = "Select * from agenda";  
    MySqlDataReader rs;  
    rs = cmd.ExecuteReader();  
    if (rs.HasRows)  
    {  
        rs.Read();  
        label12.Text = rs["id"].ToString();  
        label13.Text = rs["nome"].ToString();  
        label15.Text = rs["celular"].ToString();  
        label17.Text = rs["email"].ToString();  
    }  
    cn.Close();  
}
```

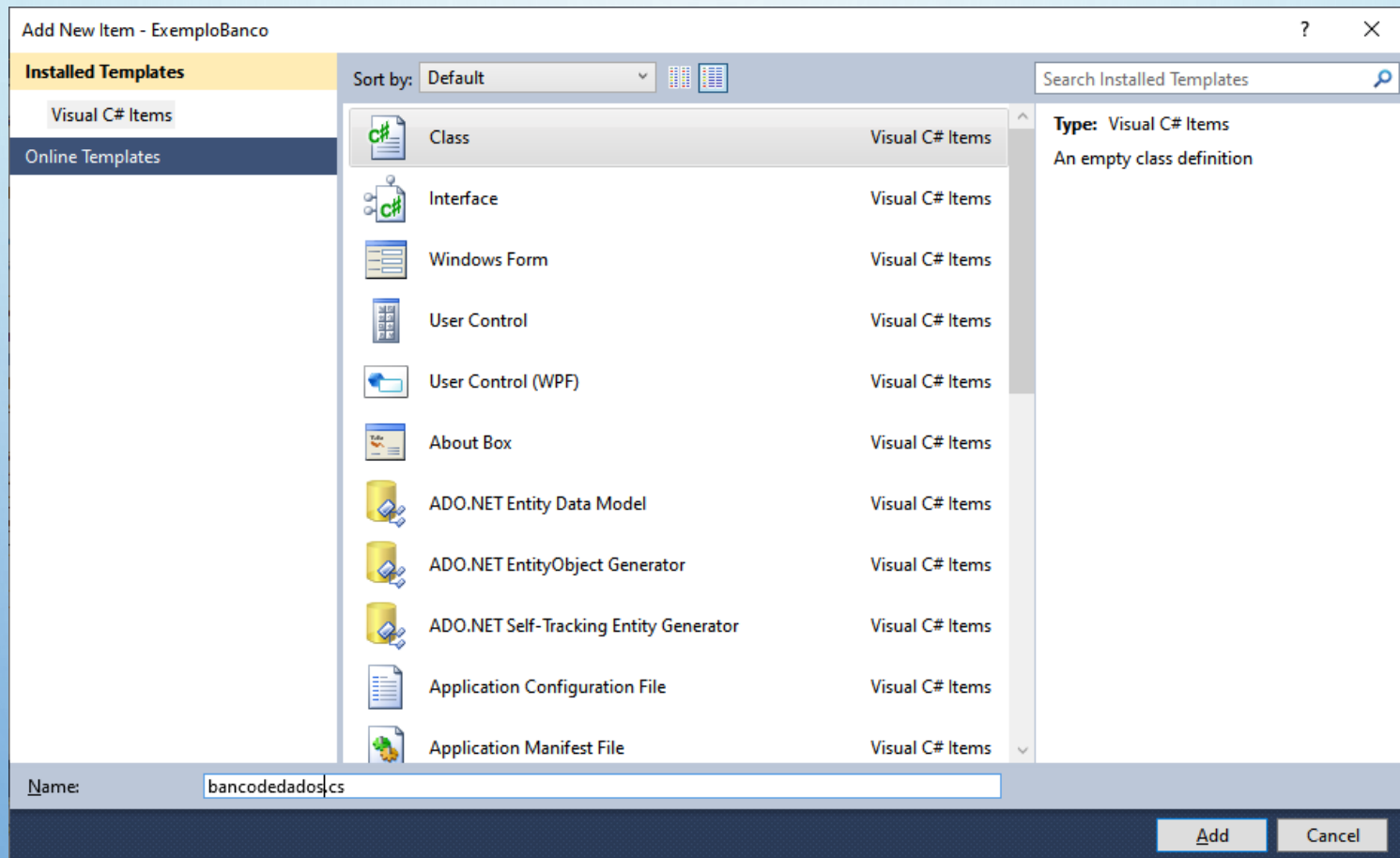
A context menu is open over the code, showing options such as `New Item...`, `Existing Item...`, `New Folder`, `Windows Form...`, `User Control...`, `Class...`, `Add`, `Add Reference...`, `Add Service Reference...`, `Set as StartUp Project`, `Debug`, `Cut`, `Paste`, `Remove`, `Rename`, and `Properties`. The `Add` option is currently selected.

The Solution Explorer on the right shows the project structure for `ExemploBanco`, including `Properties`, `References`, `Form1.cs`, `Form1.Designer.cs`, `Form1.resx`, and `Program.cs`.

The Error List at the bottom shows 0 Errors, 0 Warnings, and 0 Messages.

Description	File	Line	Column	Project

CRIAR A CLASSE BANCO DE DADOS



CRIAR O MÉTODO ESTÁTICO FAZERCONEXAO() NA CLASSE BANCODEDADOS

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using MySql.Data.MySqlClient;

namespace ExemploBanco
{
    class bancodedados
    {
        public static MySqlConnection fazerconexao()
        {
            return new MySqlConnection("Server=localhost; uid=root; pwd=; database=2019frutal");
        }
    }
}
```

DEPOIS ACERTAMOS O FORM_LOAD()

```
private void Form1_Load(object sender, EventArgs e)
{
    MySqlConnection cn = bancodedados.fazerconexao();
    MySqlCommand cmd = new MySqlCommand();
    cn.Open();
    cmd.Connection = cn;
    cmd.CommandText = "Select * from agenda";
    MySqlDataReader rs;
    rs = cmd.ExecuteReader();
    if (rs.HasRows)
    {
        rs.Read();
        label2.Text = rs["id"].ToString();
        label3.Text = rs["nome"].ToString();
        label5.Text = rs["celular"].ToString();
        label7.Text = rs["email"].ToString();
    }
    cn.Close();
}
```

Só muda aqui

MAS... PODEMOS VER TODOS EM GRID

The screenshot displays the Microsoft Visual C# 2010 Express IDE. The main window shows a form designer with a **DataGridView** control placed on it. The **Toolbox** on the left has the **DataGridView** control selected. The **Solution Explorer** on the right shows the project structure for 'ExemploBanco'. The **Properties** window at the bottom right shows the properties for the selected **dataGridView1**.

Toolbox

- TextBox
- ToolTip
- TreeView
- WebBrowser
- Containers
 - Pointer
 - FlowLayoutPanel
 - GroupBox
 - Panel
 - SplitContainer
 - TabControl
 - TableLayoutPanel
- Menus & Toolbars
 - Pointer
 - ContextMenuStrip
 - MenuStrip
 - StatusStrip
 - ToolStrip
 - ToolStripContainer
- Data
 - Pointer
 - Chart
 - BindingNavigator
 - BindingSource
 - DataGridView**
 - DataSet
- Components
- Printing

Solution Explorer

- Solution 'ExemploBanco' (1 project)
 - ExemploBanco
 - Properties
 - References
 - bancodedados.cs
 - Form1.cs
 - Form1.Designer.cs
 - Form1.resx
 - Program.cs

Properties

dataGridView1 System.Windows.Forms.Data

- (ApplicationSettings)
- (DataBindings)
 - (Name) **dataGridView1**
 - AccessibleDescript
 - AccessibleName
 - AccessibleRole Default
 - AllowDrop False
 - AllowUserToAddR True
 - AllowUserToDelete True

(ApplicationSettings)
Maps property settings to an application configuration file.

File	Line	Column	Project

E ANTES DO CN.CLOSE() FAREMOS

```
    label5.Text = rs["celular"].ToString();
    label7.Text = rs["email"].ToString();
}
|
MySQLDataAdapter adp = new MySQLDataAdapter("Select * from agenda order by nome", cn);
DataTable dt = new DataTable();
rs.Close();
adp.Fill(dt);
if (dt.Rows.Count > 0)
{
    dataGridView1.DataSource = dt;
}
cn.Close();
```


AO EXECUTAR TEREMOS

Form1

Id 1
Nome Sérgio Carlos Portari Júnior
Telefone 34-99111-0949
E-mail portari.uemgfrutal@gmail.com

	id	nome	celular	email
▶	1	Sérgio Carlos Por...	34-99111-0949	portari.uemgfrutal...
	2	UEMG - Unidade...	34-3423-2700	frutal@uemg.br
*				