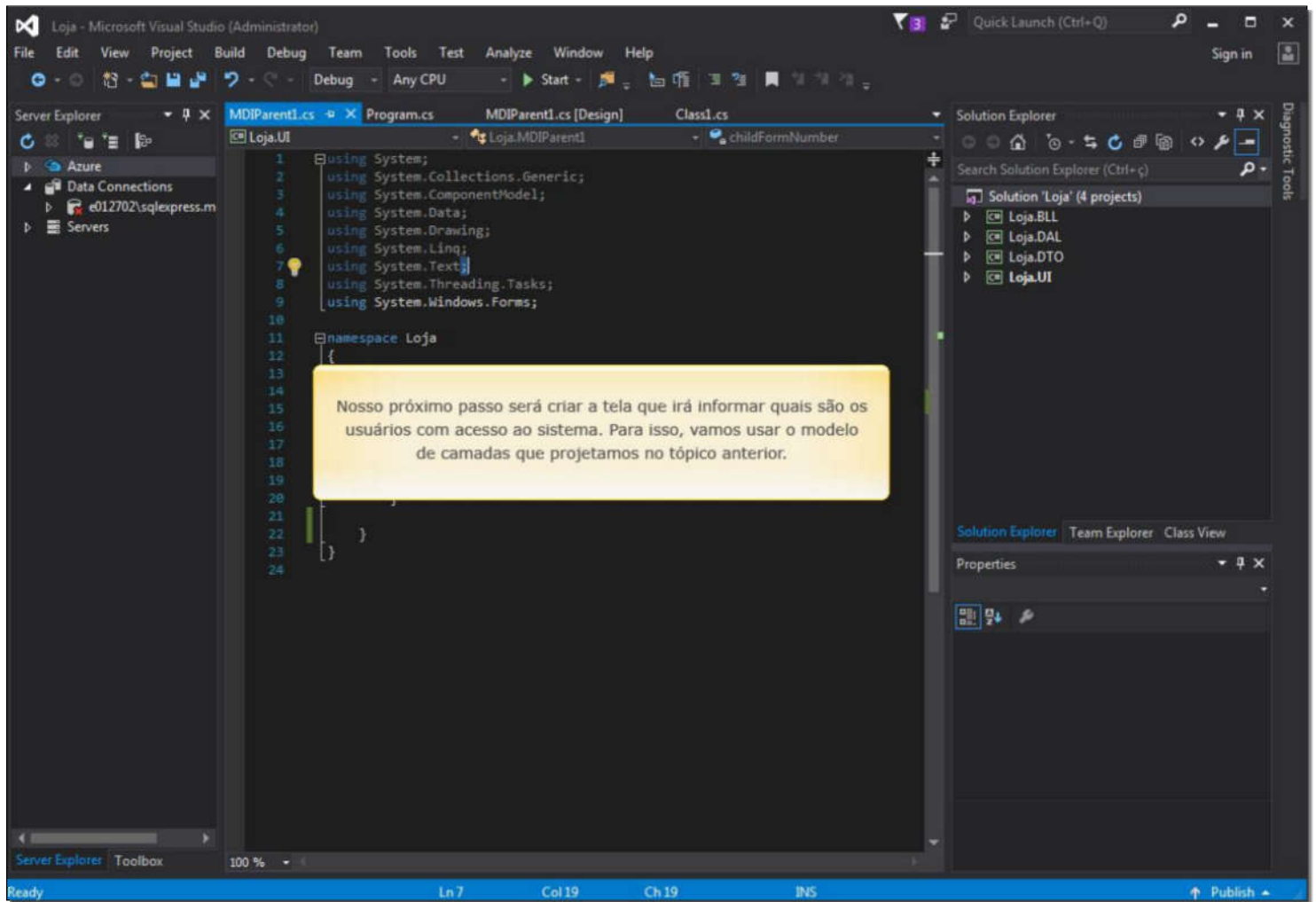


Preparando o Cadastro de Usuários



Loja - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug - Any CPU - Start -

Server Explorer

- Azure
- Data Connections
 - e012702\sqlexpress.m
- Servers

MDIParent1.cs Program.cs MDIParent1.cs [Design] Class1.cs

Loja.UI

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Loja
12 {
13
14
15
16
17
18
19
20
21
22 }
23
24
```

Our next step will be to create the screen that will inform which are the users with access to the system. For this, we will use the layered model that we designed in the previous topic.

Solution Explorer

Search Solution Explorer (Ctrl+q)

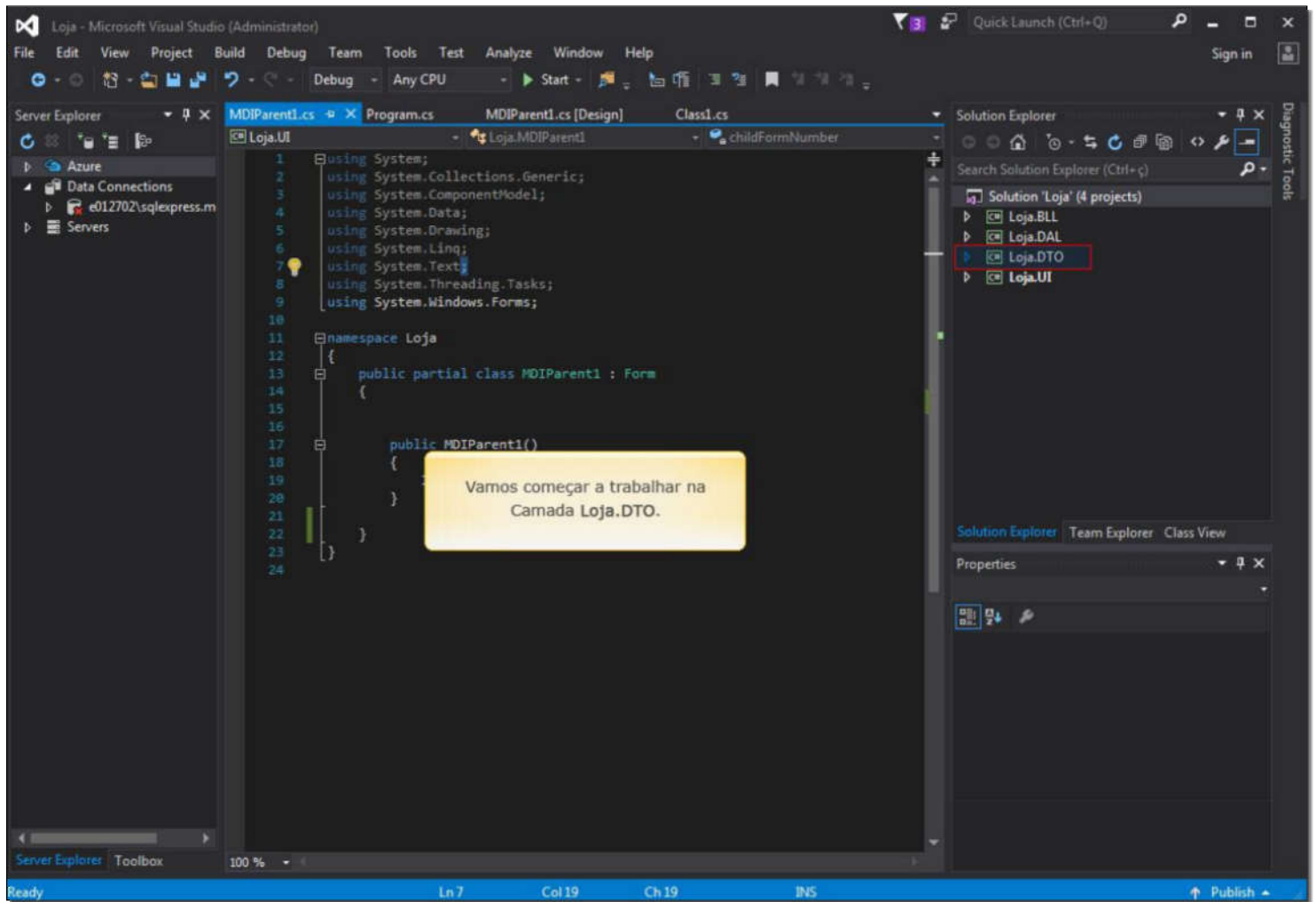
Solution 'Loja' (4 projects)

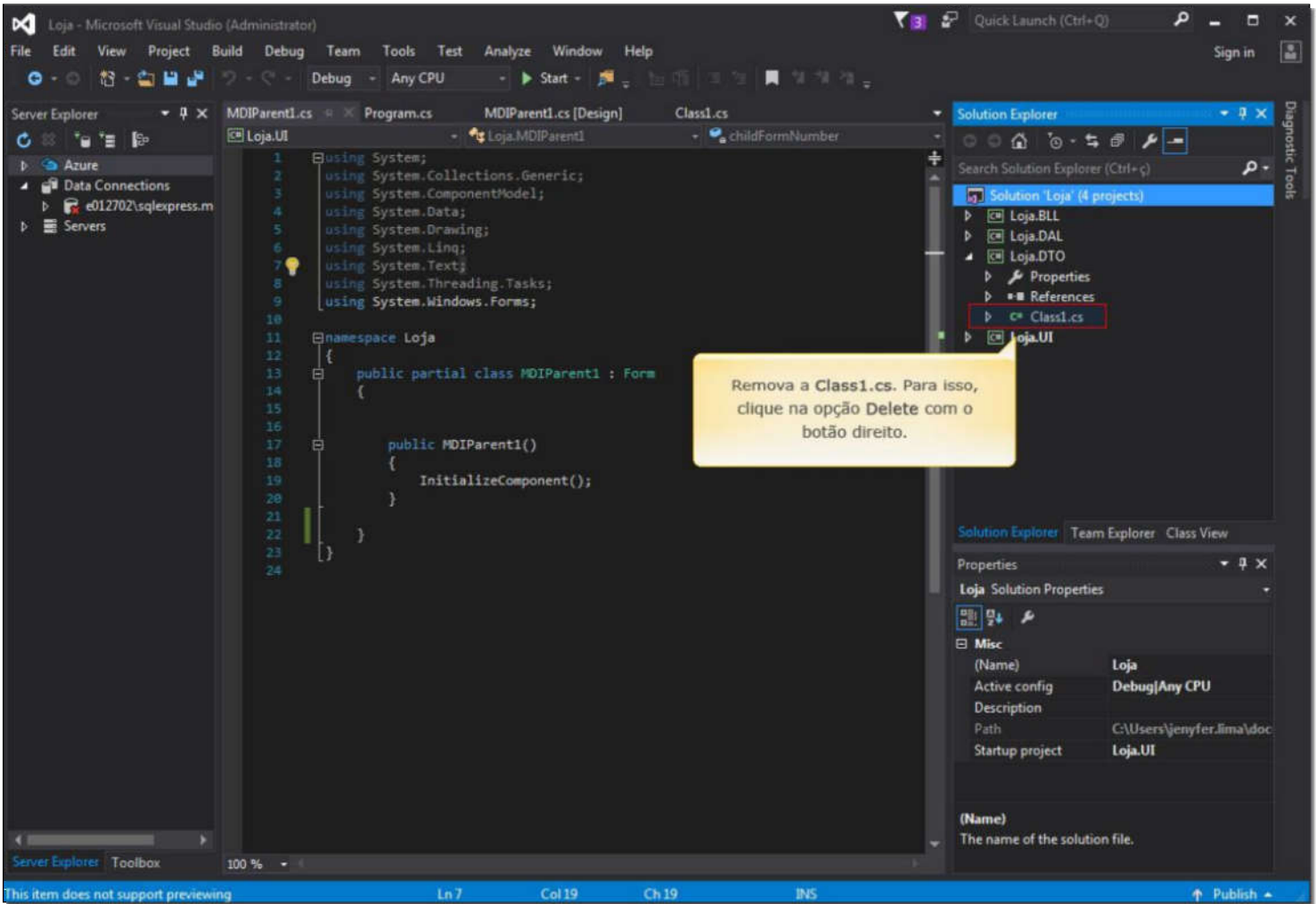
- Loja.BLL
- Loja.DAL
- Loja.DTO
- Loja.UI

Solution Explorer Team Explorer Class View

Properties

Ready Ln 7 Col 19 Ch 19 INS Publish





The screenshot shows the Microsoft Visual Studio (Administrator) interface. The main editor displays the code for `MDIParent1.cs` in the `Loja.UI` namespace. The `Solution Explorer` on the right shows the project structure for 'Solution 'Loja' (4 projects)', including `Loja.BLL`, `Loja.DAL`, `Loja.DTO`, and `Loja.UI`. The `Class1.cs` file is highlighted in red. A yellow callout box with the text "Remova a Class1.cs. Para isso, clique na opção Delete com o botão direito." points to the `Class1.cs` file. The `Properties` window at the bottom right shows the solution properties for 'Loja', including the name, active configuration, description, path, and startup project.

Loja - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Server Explorer

MDIParent1.cs Program.cs MDIParent1.cs [Design] Class1.cs

Loja.UI

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Loja
12 {
13     public partial class MDIParent1 : Form
14     {
15
16
17         public MDIParent1()
18         {
19             InitializeComponent();
20         }
21
22     }
23
24 }
```

Remove a Class1.cs. Para isso, clique na opção Delete com o botão direito.

Solution Explorer

Search Solution Explorer (Ctrl+q)

Solution 'Loja' (4 projects)

- Loja.BLL
- Loja.DAL
- Loja.DTO
- Loja.UI

Properties

Loja Solution Properties

Misc

(Name)	Loja
Active config	Debug Any CPU
Description	
Path	C:\Users\jenyfer.lima\doc
Startup project	Loja.UI

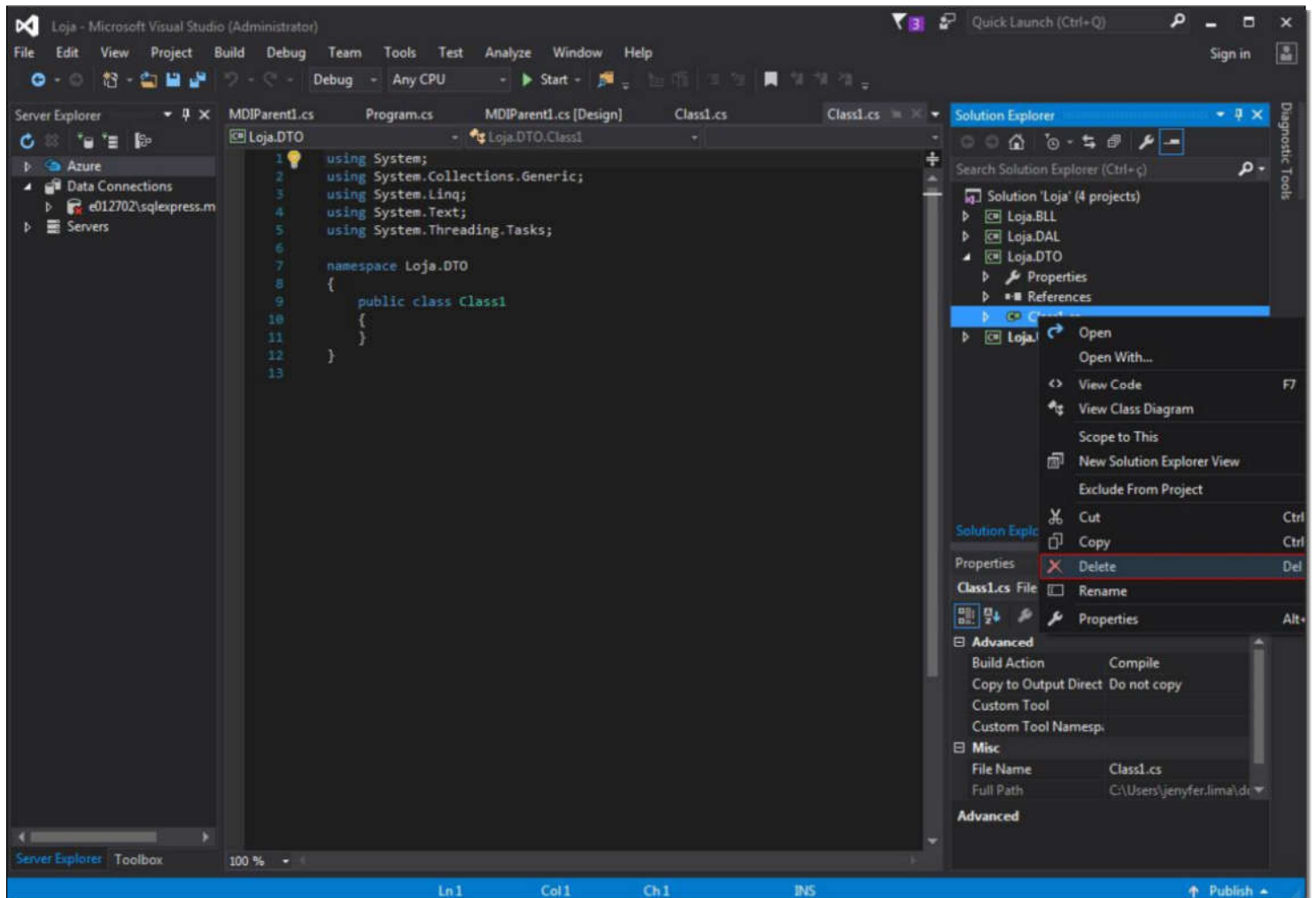
(Name)

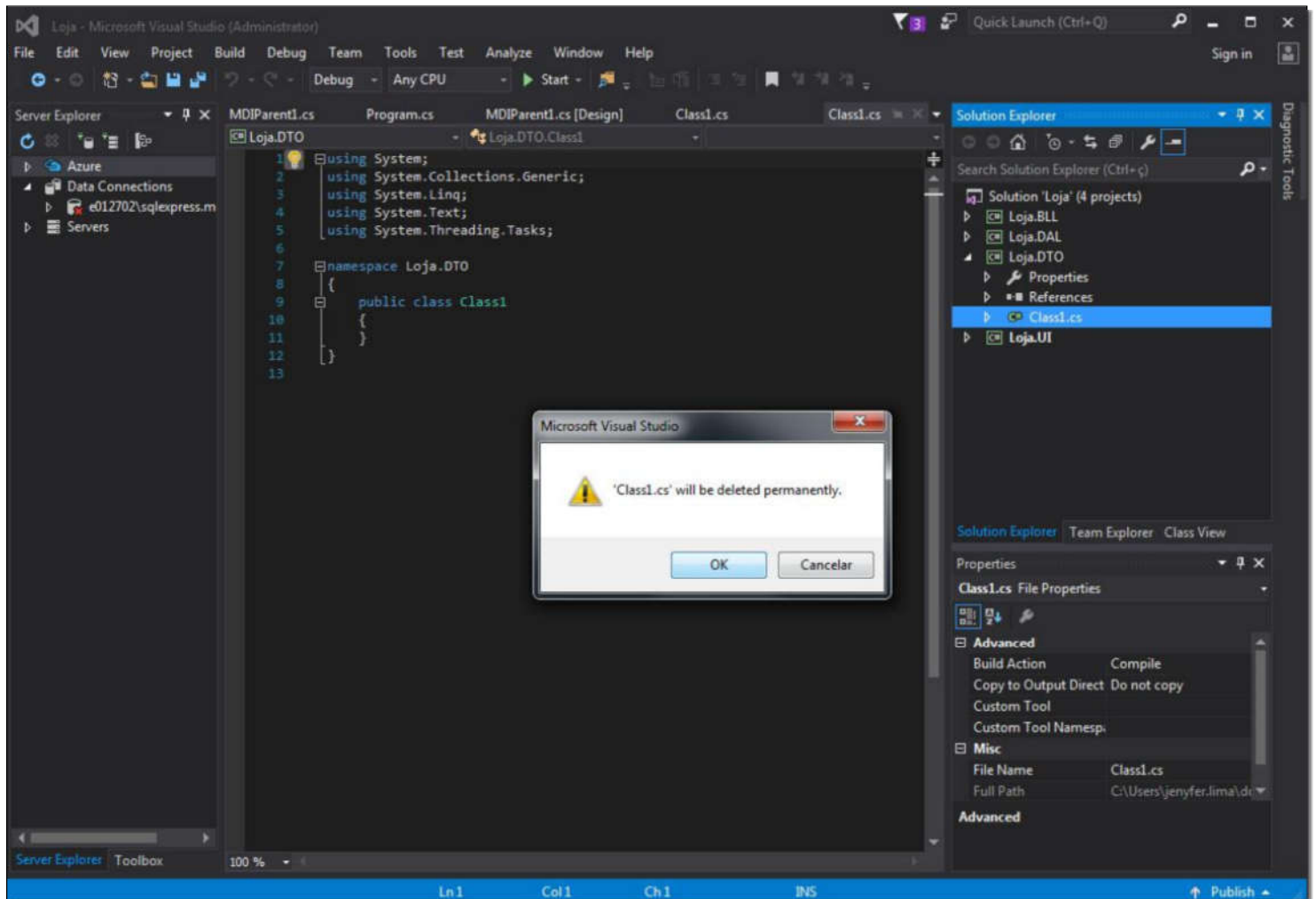
The name of the solution file.

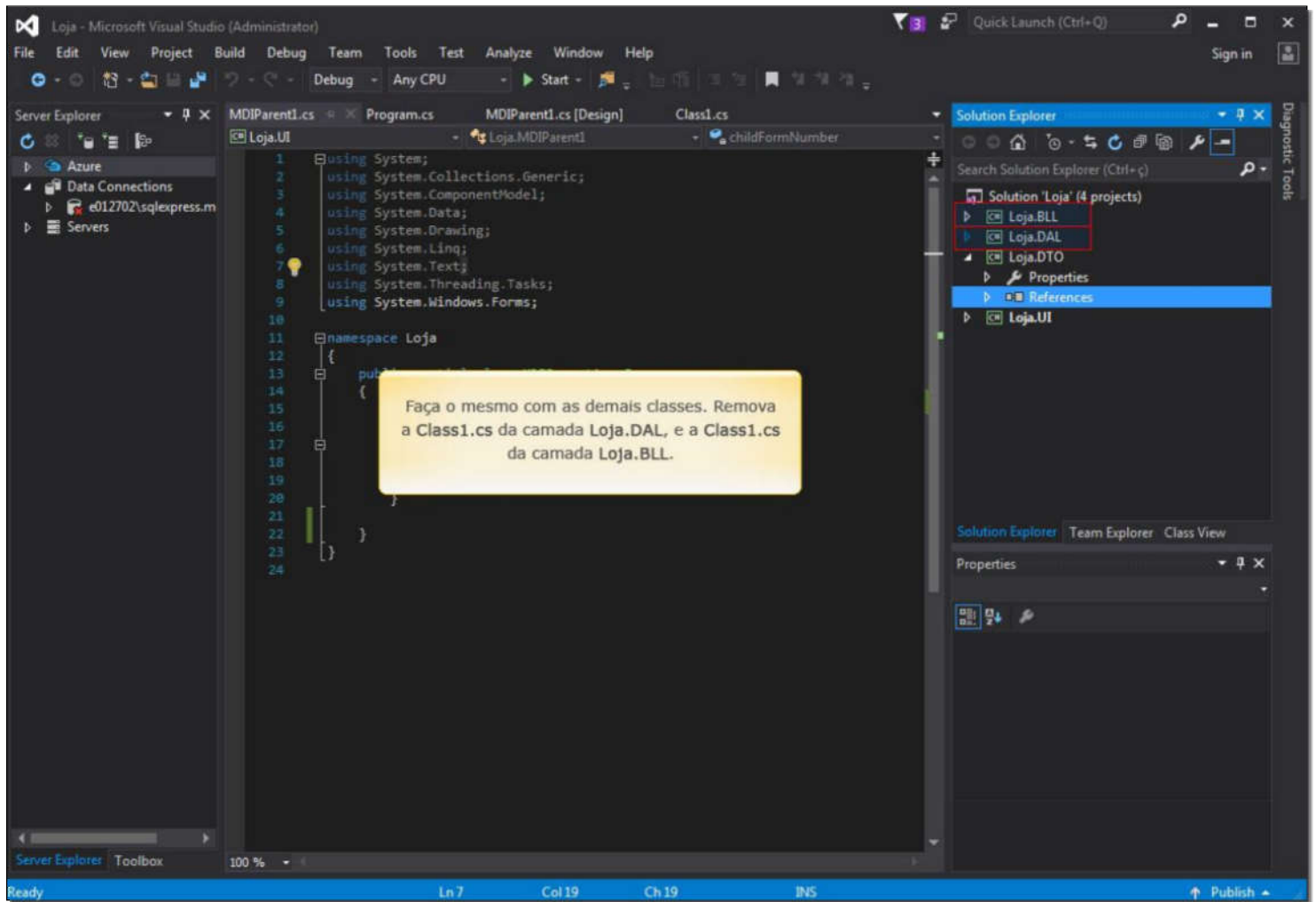
This item does not support previewing

Ln 7 Col 19 Ch 19 INS

Publish







Loja - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Server Explorer

MDIParent1.cs Program.cs MDIParent1.cs [Design] Class1.cs

Loja.UI

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Loja
12 {
13     public partial class MDIParent1 : Form
14     {
15         //
16         //
17         //
18         //
19         //
20         //
21         //
22         //
23     }
24 }
```

Faça o mesmo com as demais classes. Remova a Class1.cs da camada Loja.DAL, e a Class1.cs da camada Loja.BLL.

Solution Explorer

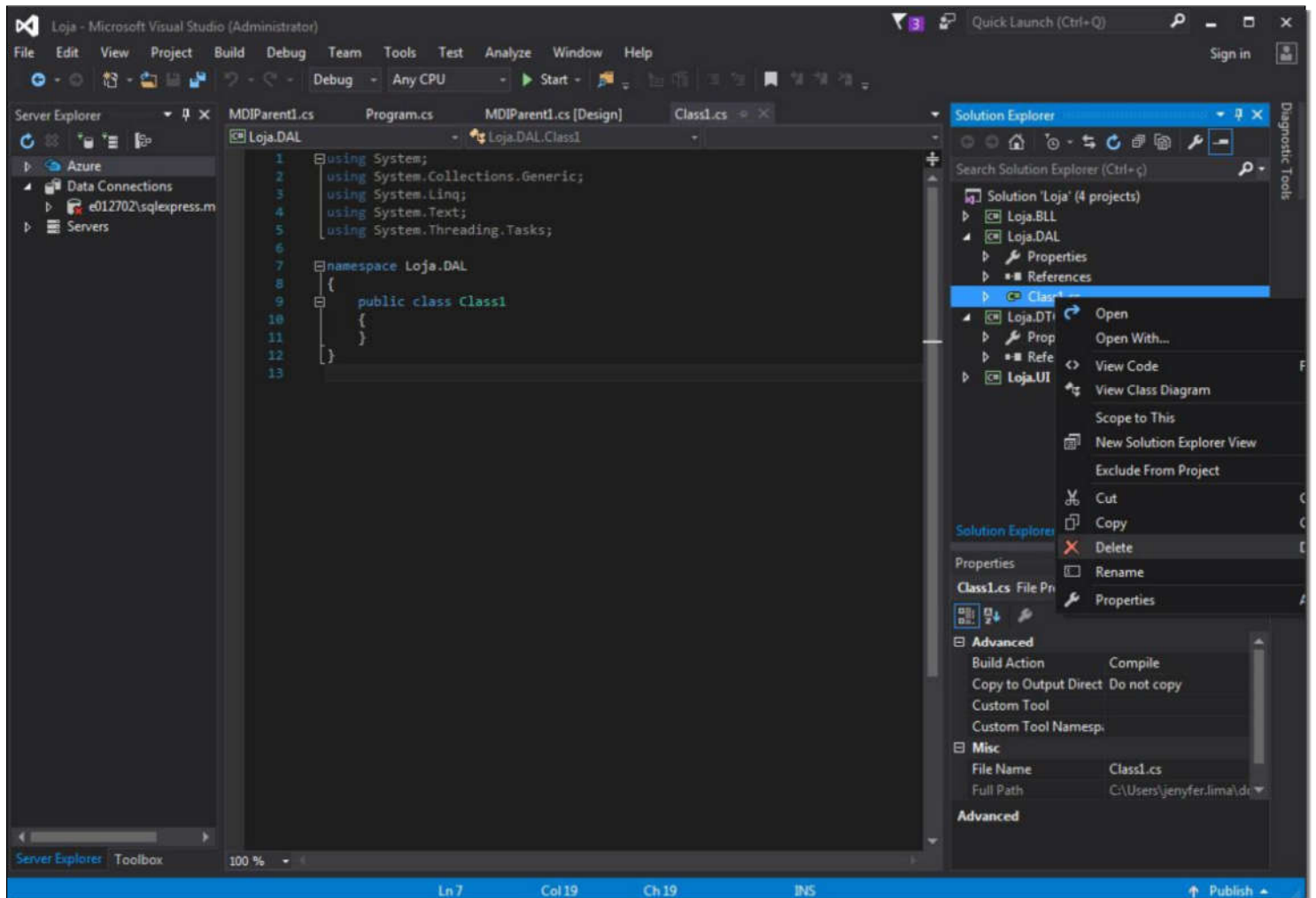
Search Solution Explorer (Ctrl+q)

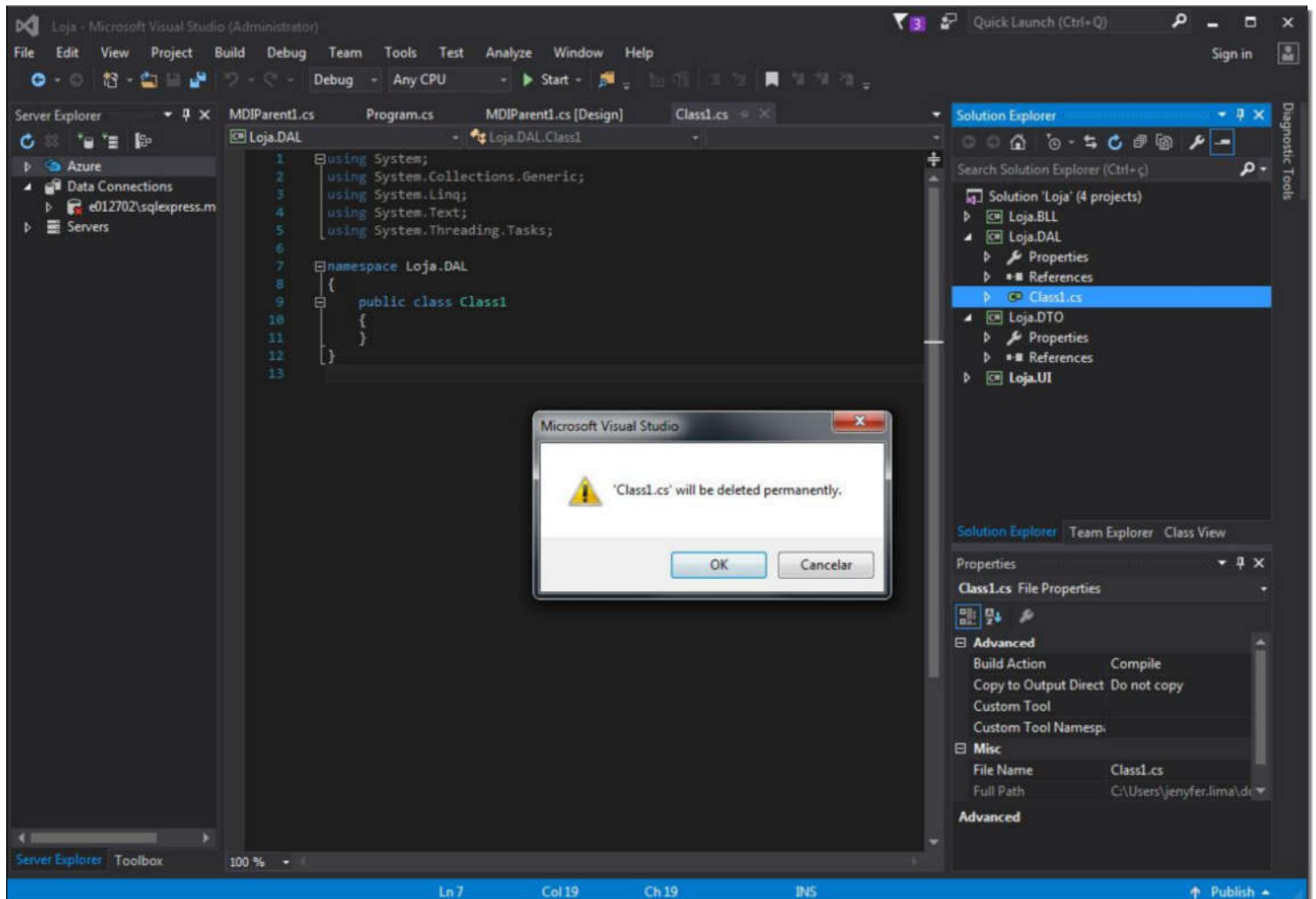
Solution 'Loja' (4 projects)

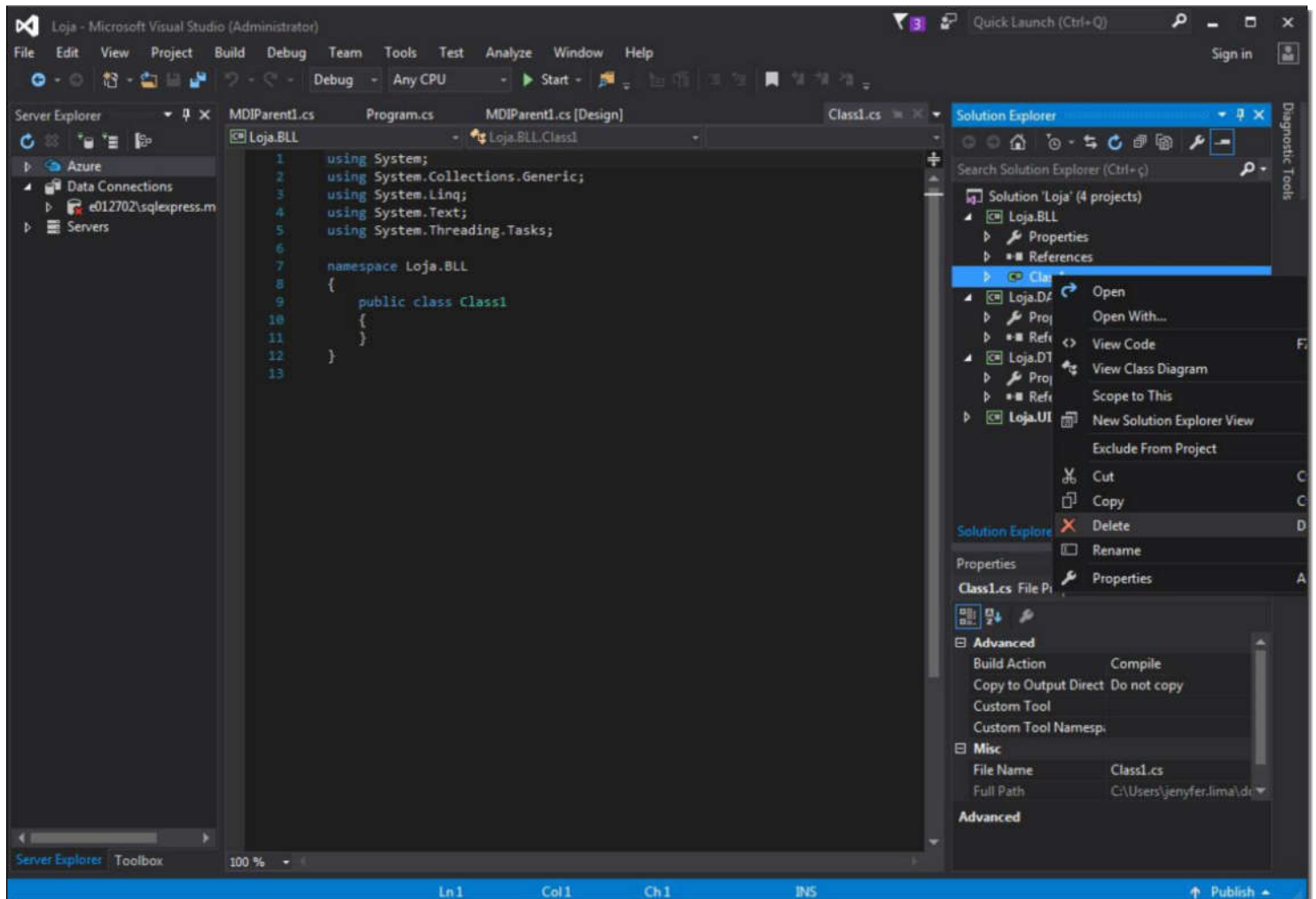
- Loja.BLL
- Loja.DAL
- Loja.DTO
- Properties
- References
- Loja.UI

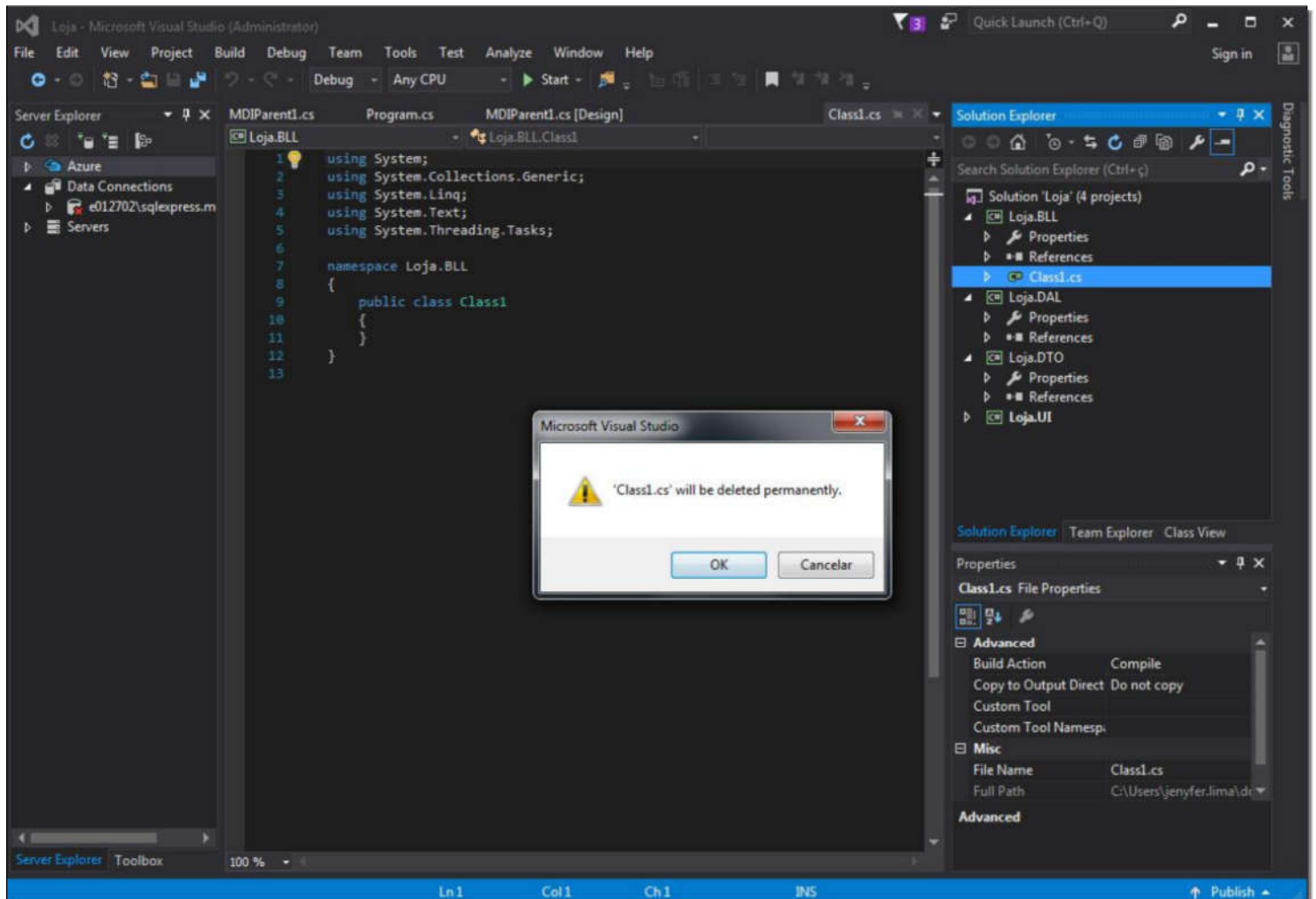
Properties

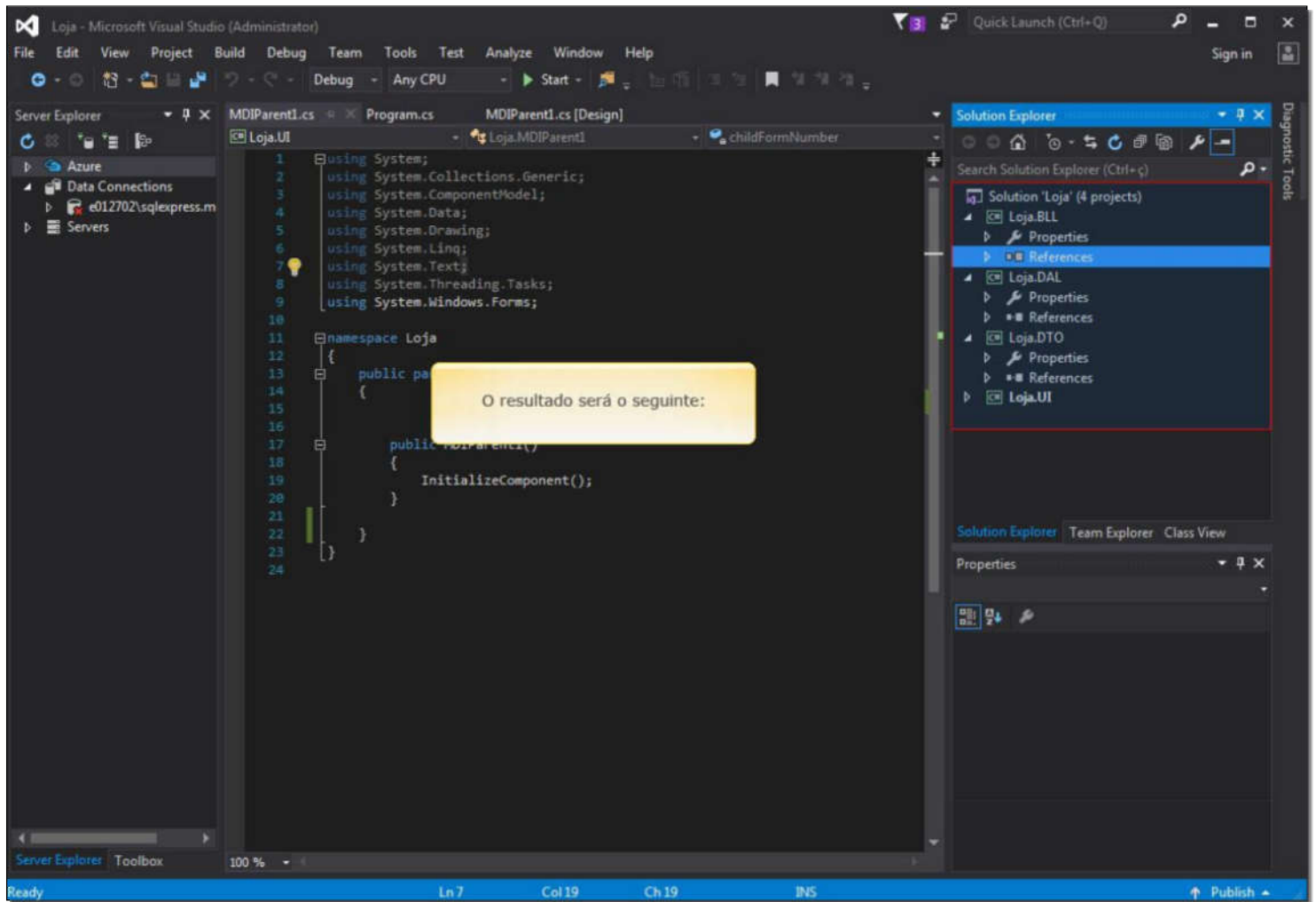
Ready Ln 7 Col 19 Ch 19 INS Publish

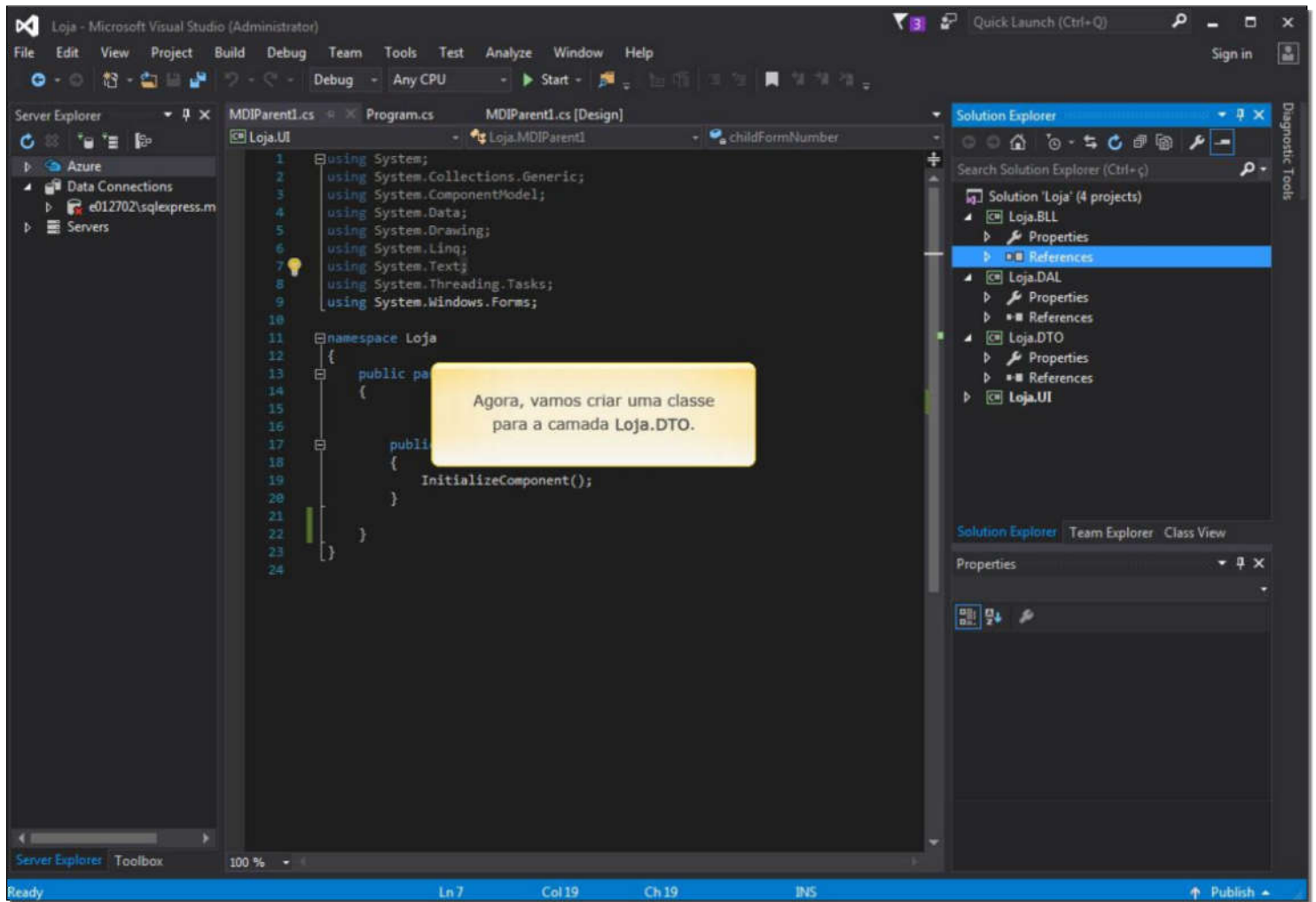












Loja - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Server Explorer

MDIParent1.cs Program.cs MDIParent1.cs [Design]

Loja.UI

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Loja
12 {
13     public partial class MDIParent1 : Form
14     {
15         public MDIParent1()
16         {
17             InitializeComponent();
18         }
19     }
20 }
21
22
23
24
```

Agora, vamos criar uma classe para a camada Loja.DTO.

Solution Explorer

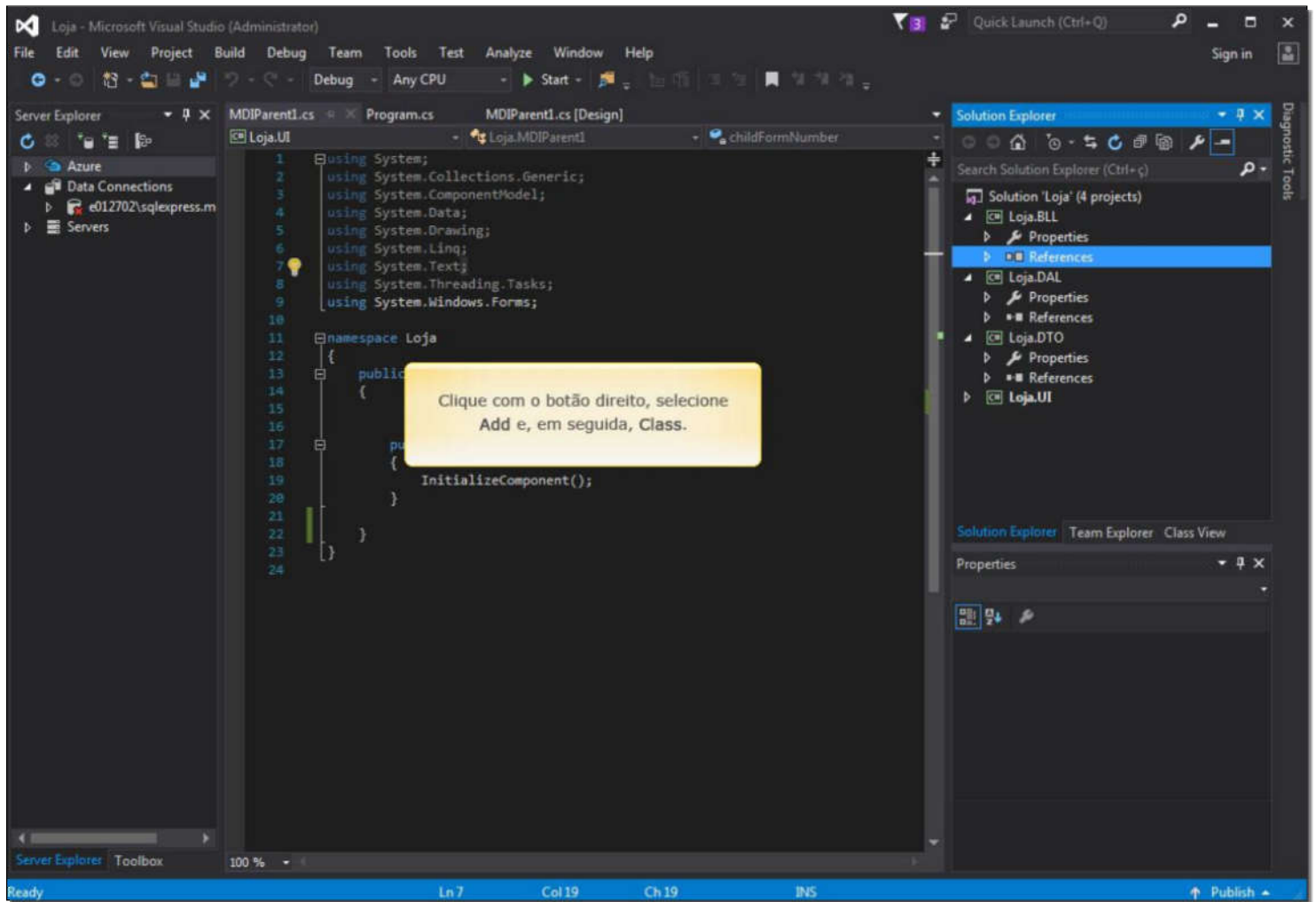
Search Solution Explorer (Ctrl+q)

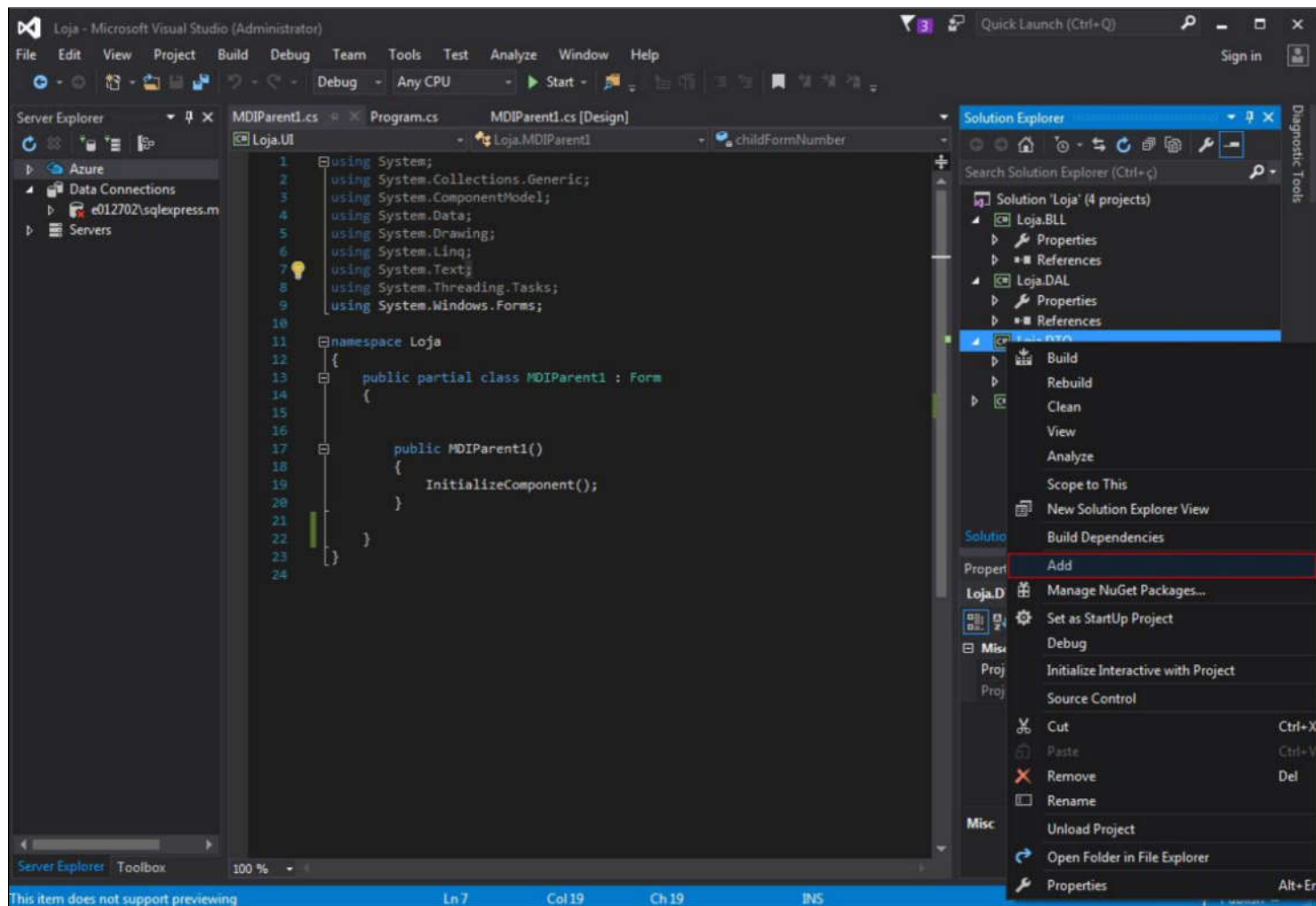
Solution 'Loja' (4 projects)

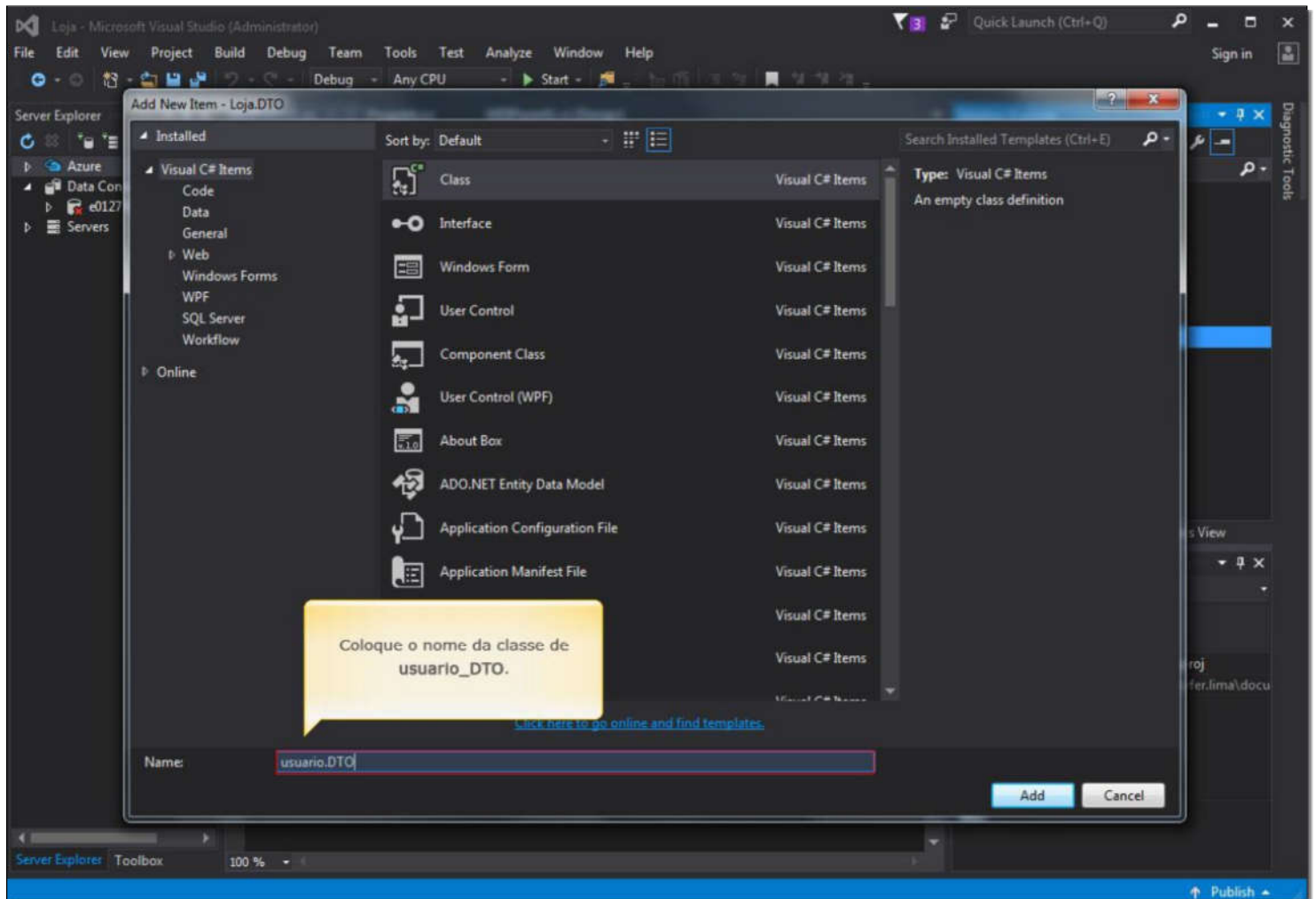
- Loja.BLL
 - Properties
- Loja.DAL
 - Properties
 - References
- Loja.DTO
 - Properties
 - References
- Loja.UI

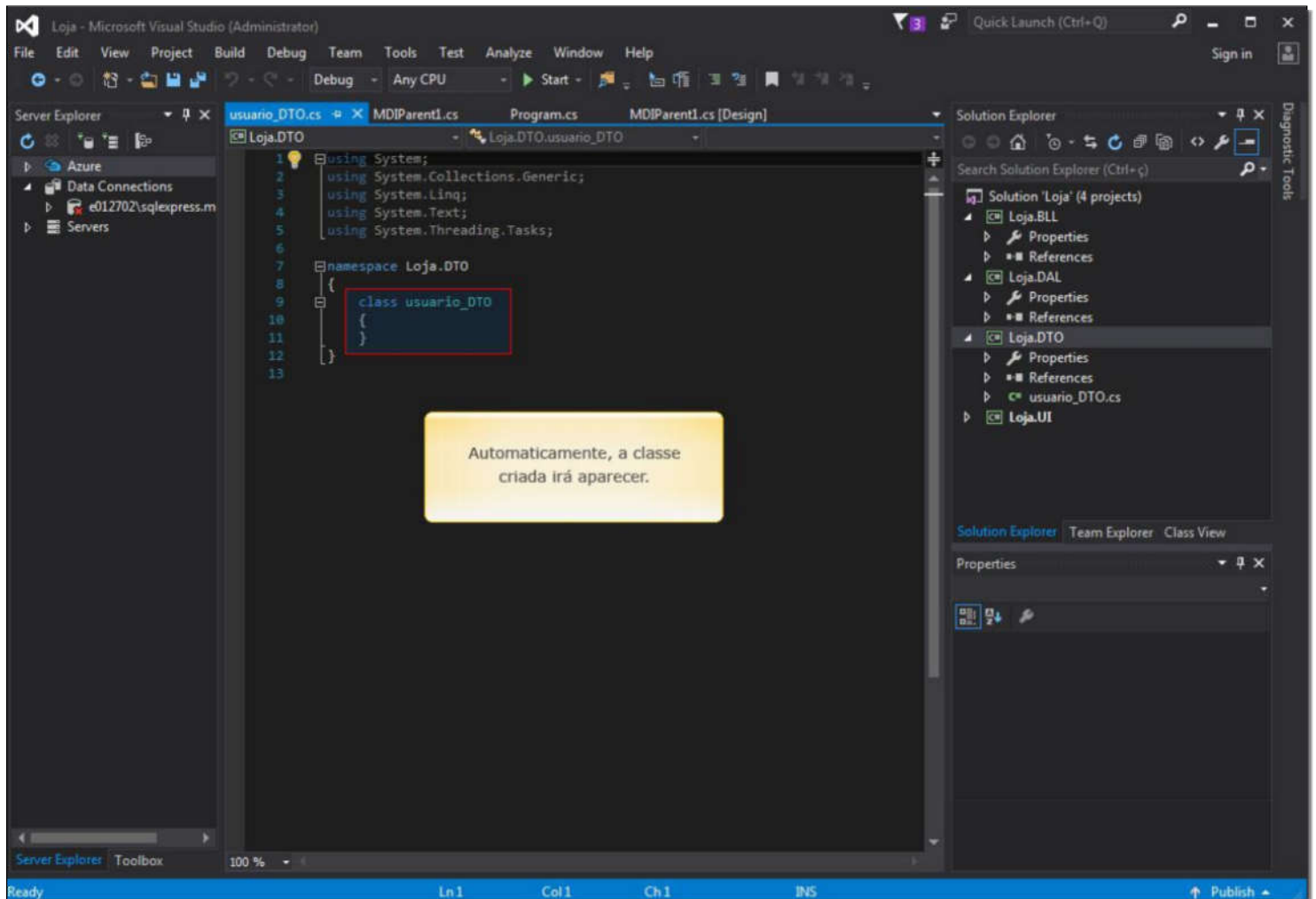
Properties

Ready Ln 7 Col 19 Ch 19 INS Publish



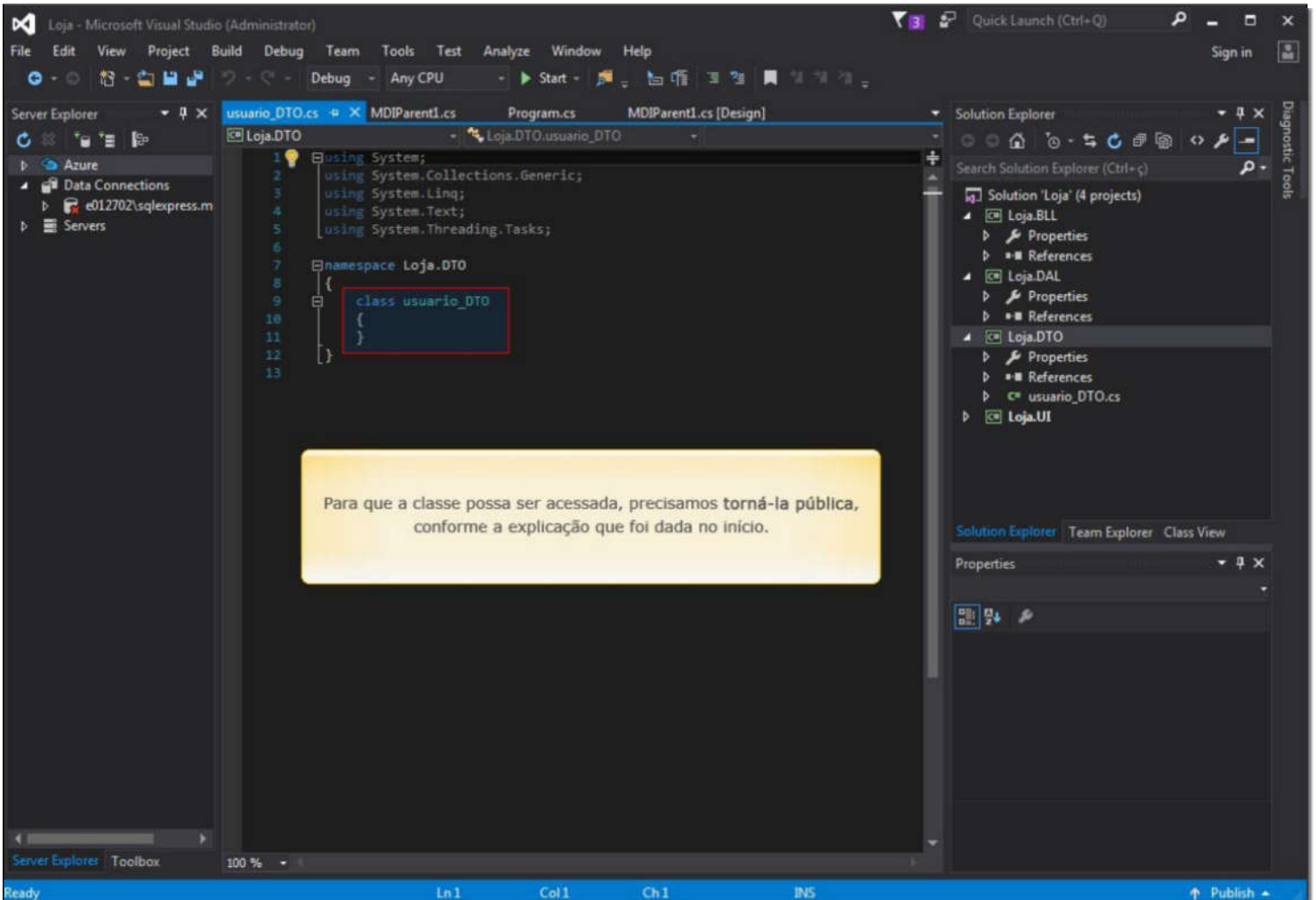






```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Loja.DTO
{
    class usuario.DTO
    {
    }
}
```



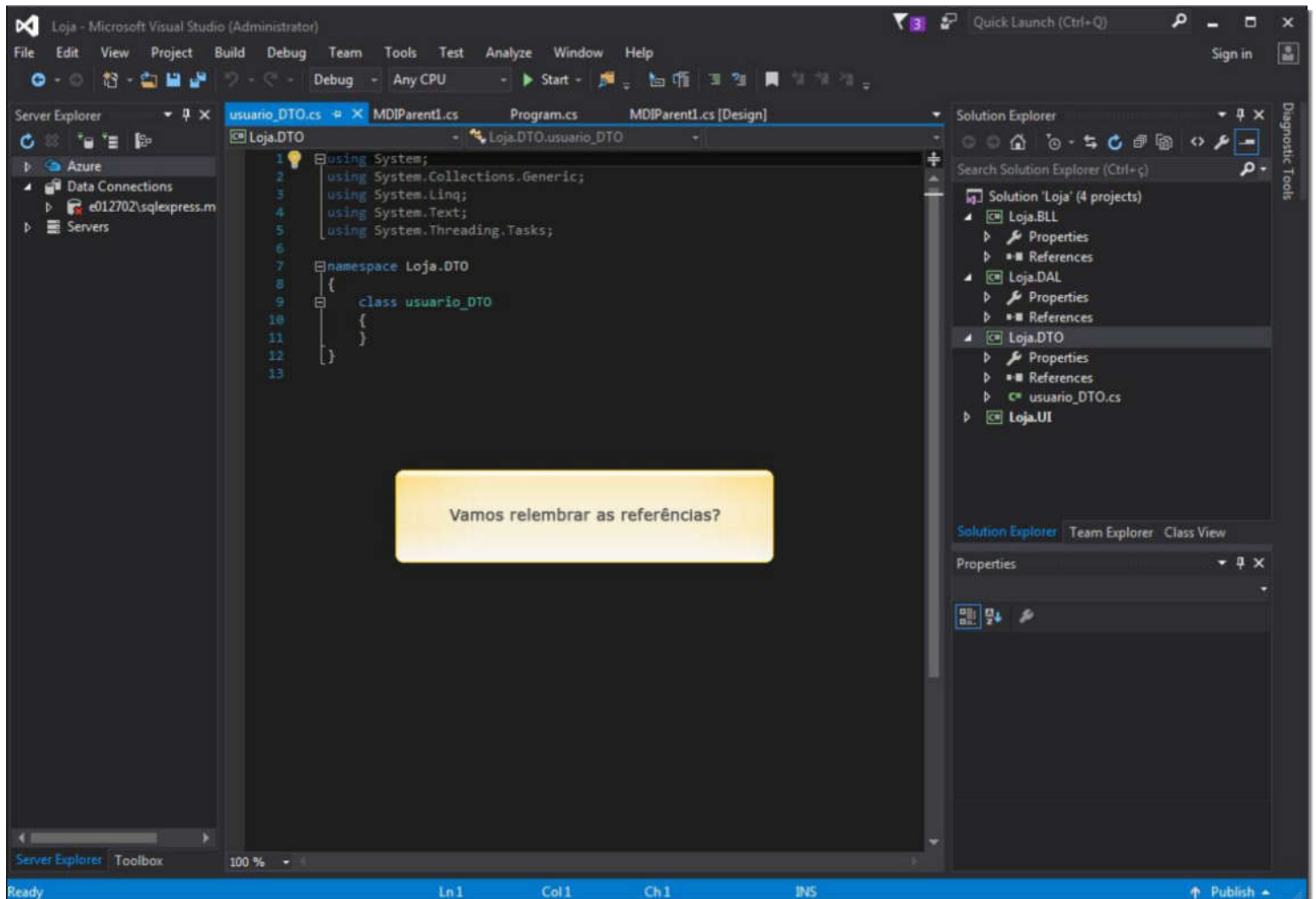
The screenshot shows the Visual Studio IDE with the following components:

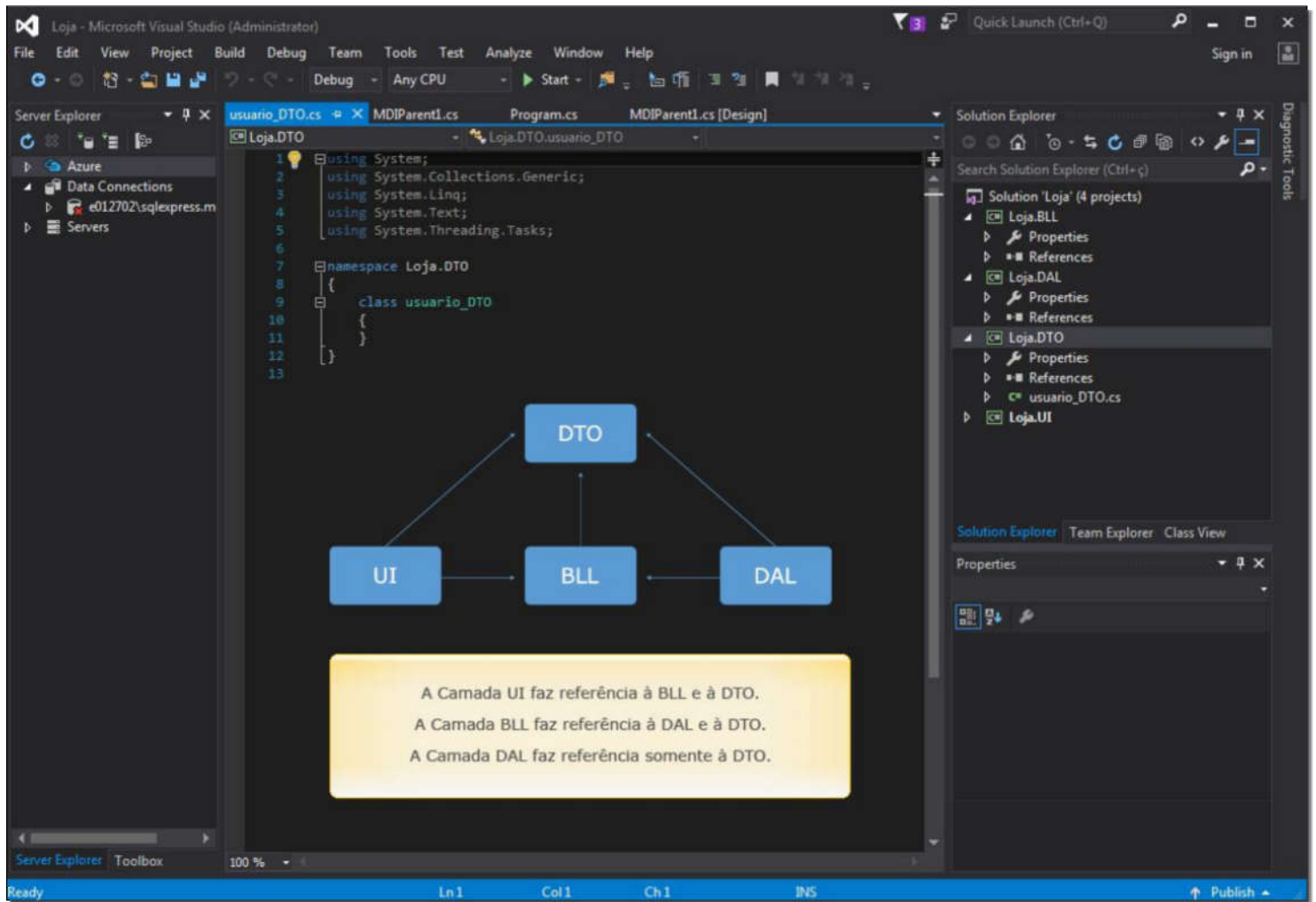
- Server Explorer:** Shows a connection to a local SQL Server instance named 'e012702\sqlexpress.m'.
- Code Editor:** Displays the code for `usuario.DTO.cs`. The code is as follows:

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Loja.DTO
8 {
9     class usuario.DTO
10     {
11     }
12 }
```
- Solution Explorer:** Shows the project structure for 'Loja' (4 projects):
 - Loja.BLL
 - Properties
 - References
 - Loja.DAL
 - Properties
 - References
 - Loja.DTO
 - Properties
 - References
 - usuario.DTO.cs
 - Loja.UI
- Properties Window:** Shows the properties for the selected `usuario.DTO.cs` file.

A yellow text box is overlaid on the code editor with the following text:

Para que a classe possa ser acessada, precisamos torná-la pública, conforme a explicação que foi dada no início.



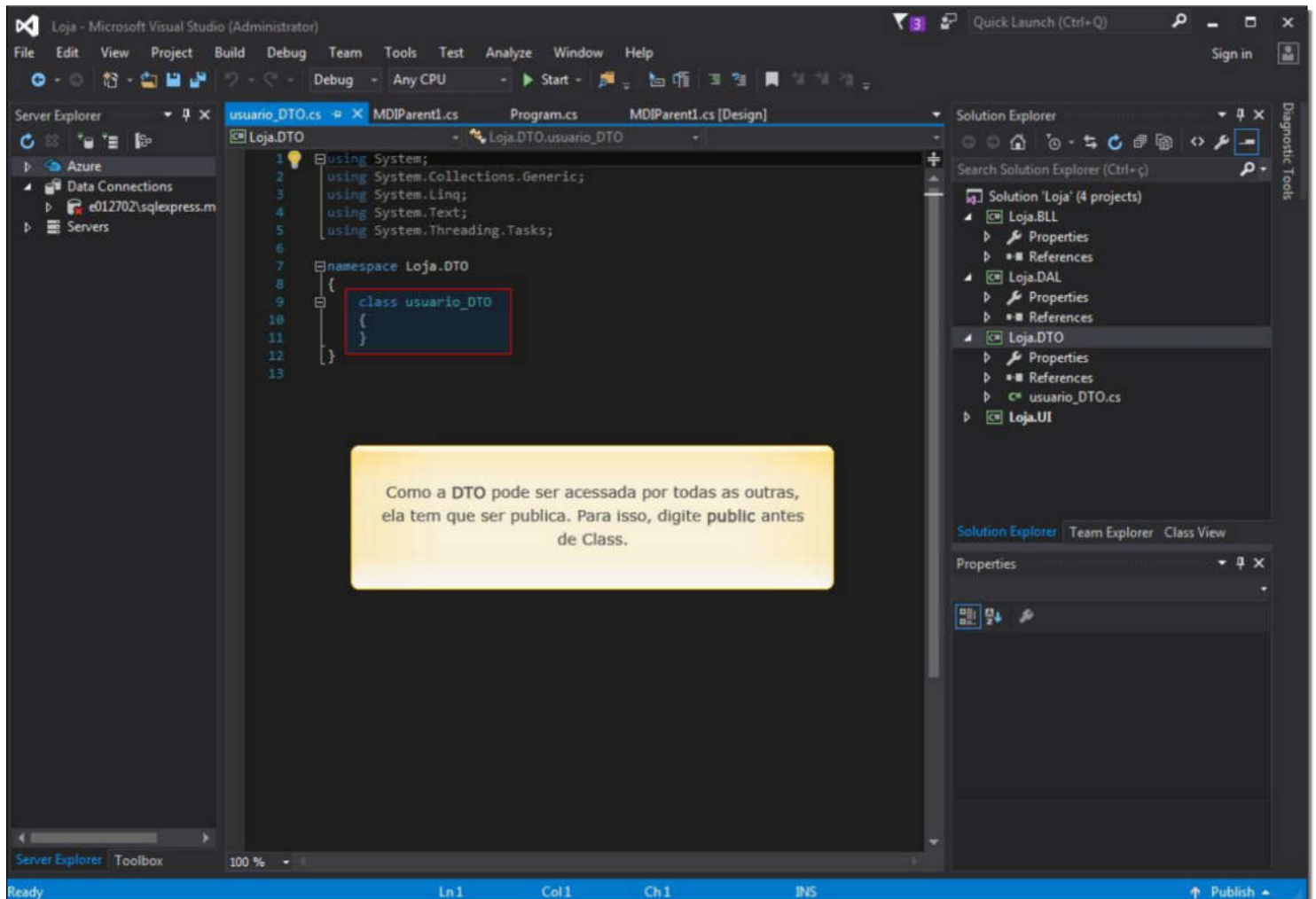


```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Loja.DTO
8 {
9     class usuario DTO
10     {
11     }
12 }
13
```

Diagram illustrating the layer architecture:

- UI, BLL, and DAL are the bottom layers.
- DTO is the central layer.
- Arrows indicate dependencies: UI depends on BLL and DTO; BLL depends on DAL and DTO; DAL depends on DTO.

A Camada UI faz referência à BLL e à DTO.
A Camada BLL faz referência à DAL e à DTO.
A Camada DAL faz referência somente à DTO.



The screenshot shows the Visual Studio IDE with the following components:

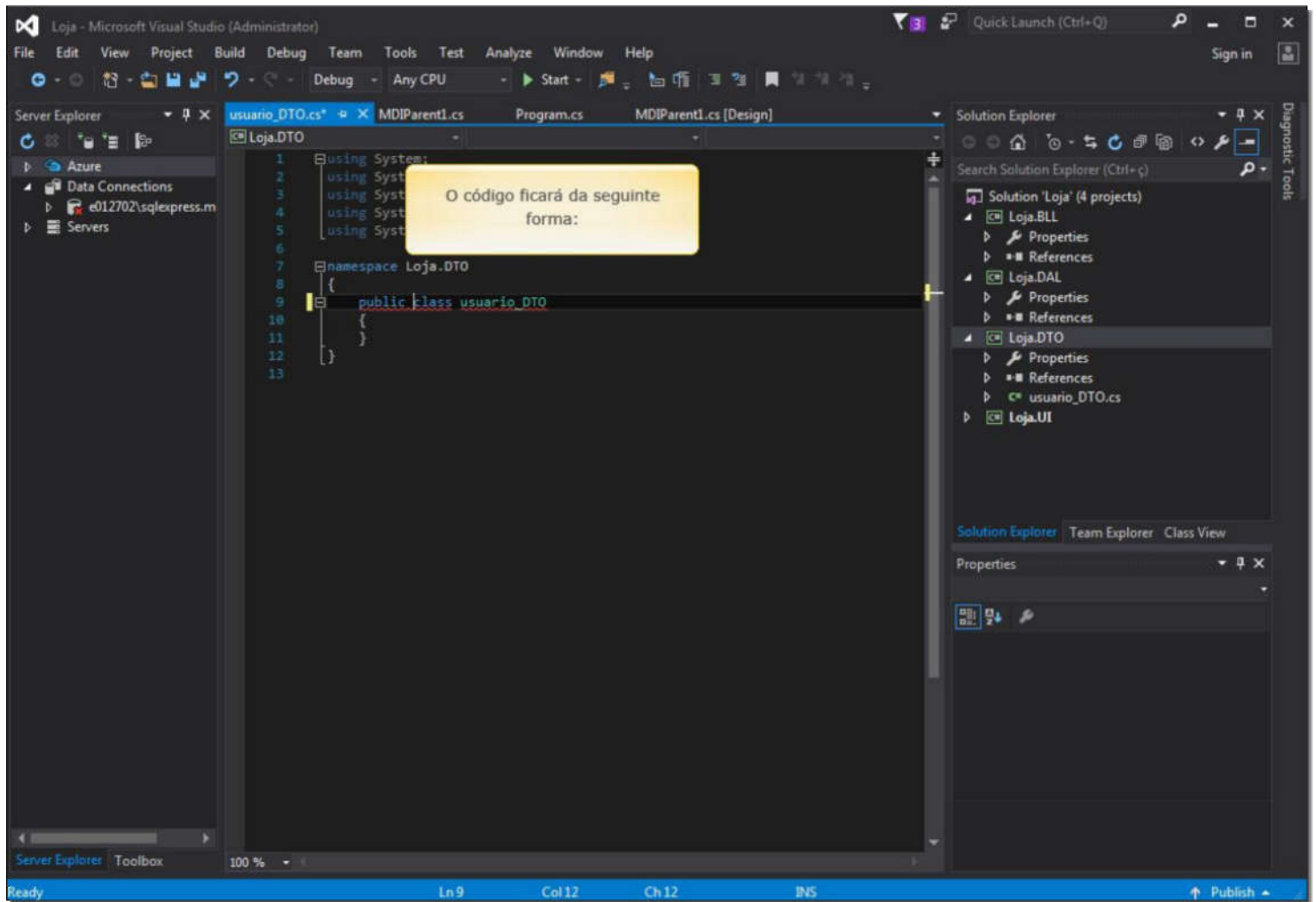
- Server Explorer:** Shows a connection to a SQL Server instance named 'e012702\sqlexpress.m'.
- Code Editor:** Displays the file `usuario.DTO.cs` within the `Loja.DTO` namespace. The code is as follows:

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Loja.DTO
8 {
9     class usuario.DTO
10     {
11     }
12 }
```

The `class usuario.DTO` line is highlighted with a red box.
- Solution Explorer:** Shows a solution named 'Loja' containing four projects: `Loja.BLL`, `Loja.DAL`, `Loja.DTO`, and `Loja.UI`. The `Loja.DTO` project is selected.
- Properties Window:** Shows the properties of the selected `usuario.DTO` class.

A yellow callout box is overlaid on the code editor with the following text:

Como a DTO pode ser acessada por todas as outras, ela tem que ser publica. Para isso, digite public antes de Class.



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Loja.DTO
{
    public class usuario.DTO
    {
    }
}
```