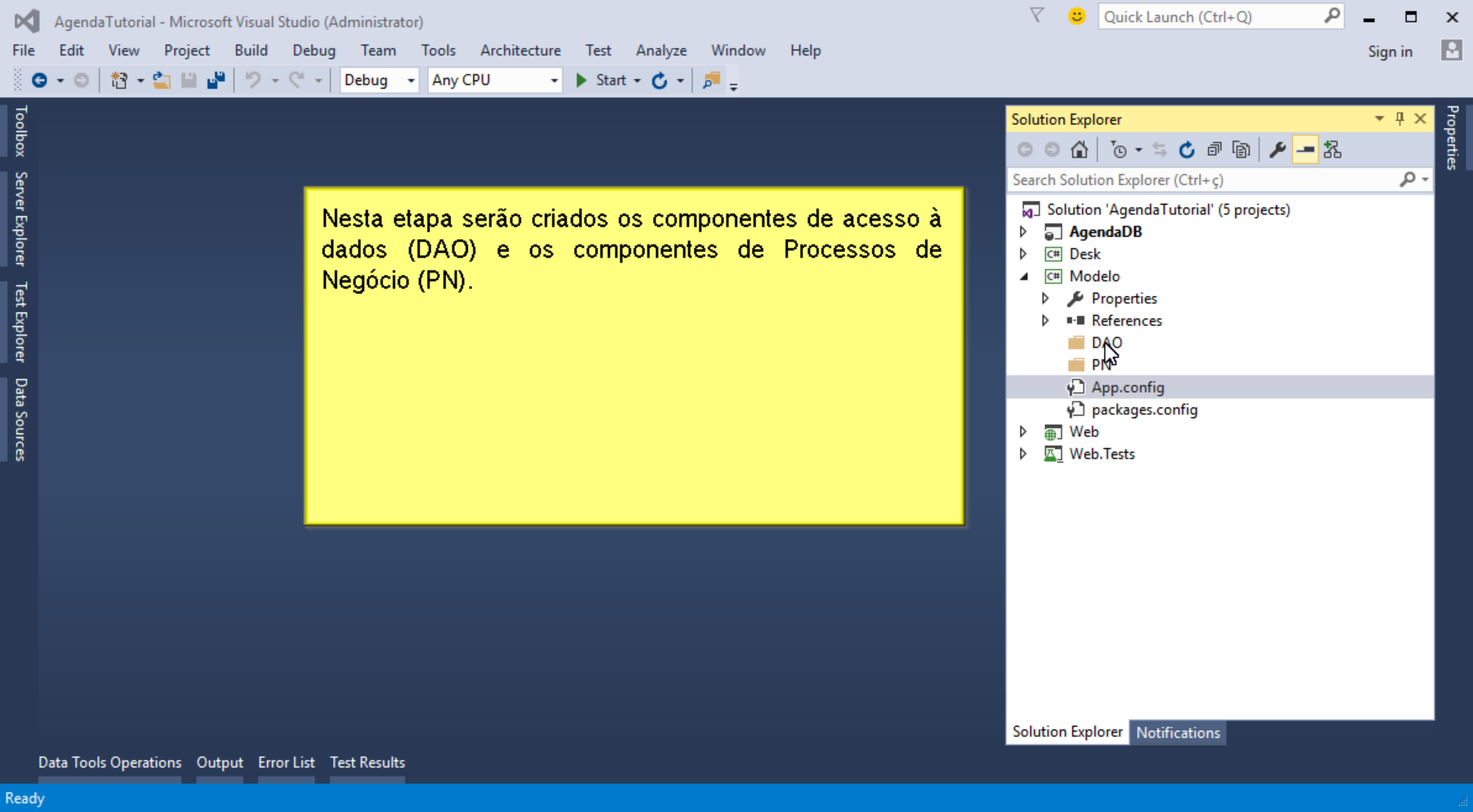
AgendaTutorial - Microsoft Visual Studio (Administrator)
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File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
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Nesta etapa serão criados os componentes de acesso à dados (DAO) e os componentes de Processos de Negócio (PN).
Solution Explorer
Search Solution Explorer (Ctrl+ç)
Solution 'AgendaTutorial' (5 projects)
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packages.config
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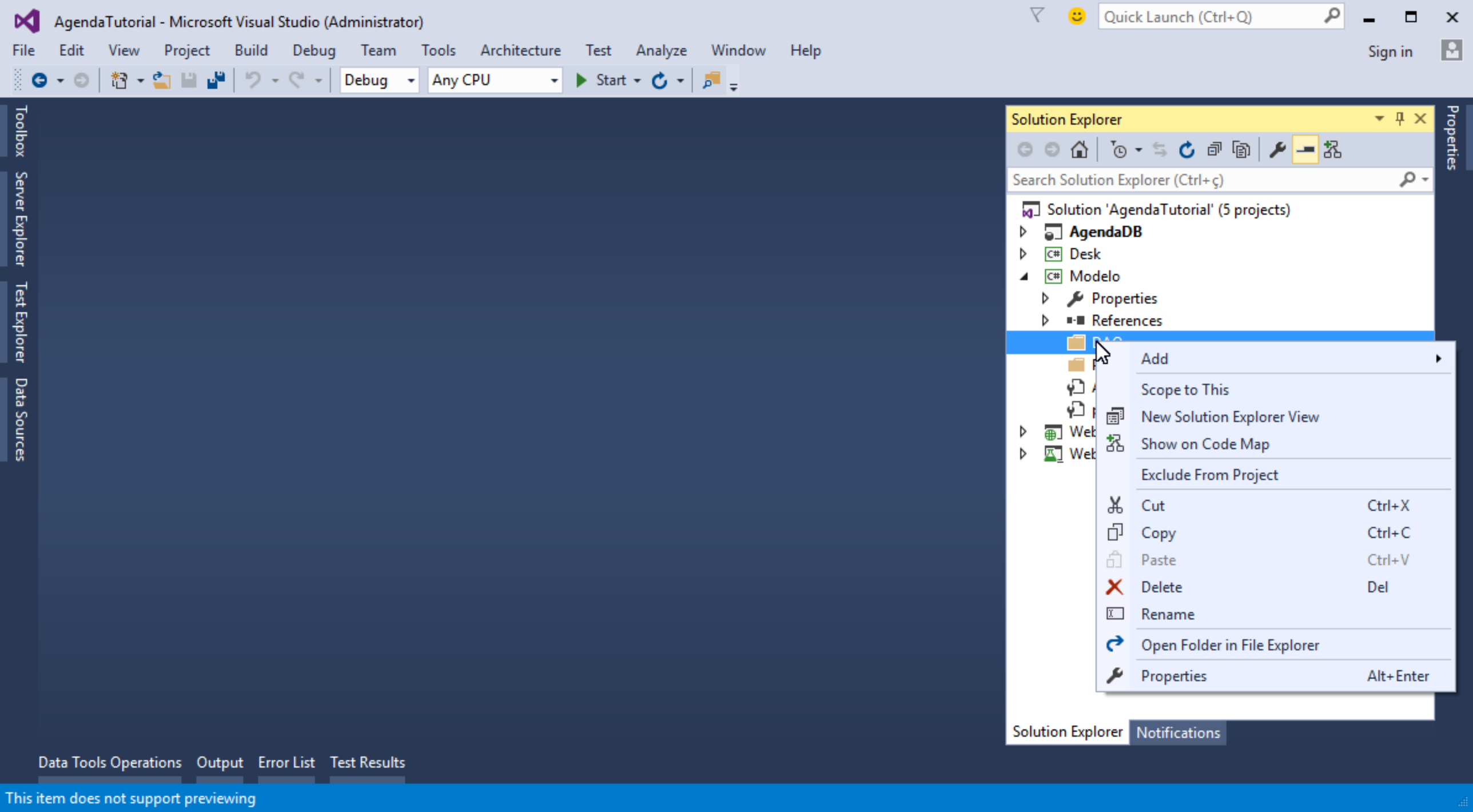
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Show on Code Map
Exclude From Project
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Rename
Open Folder in File Explorer
Properties Alt+Enter
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Notifications
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Data Tools Operations
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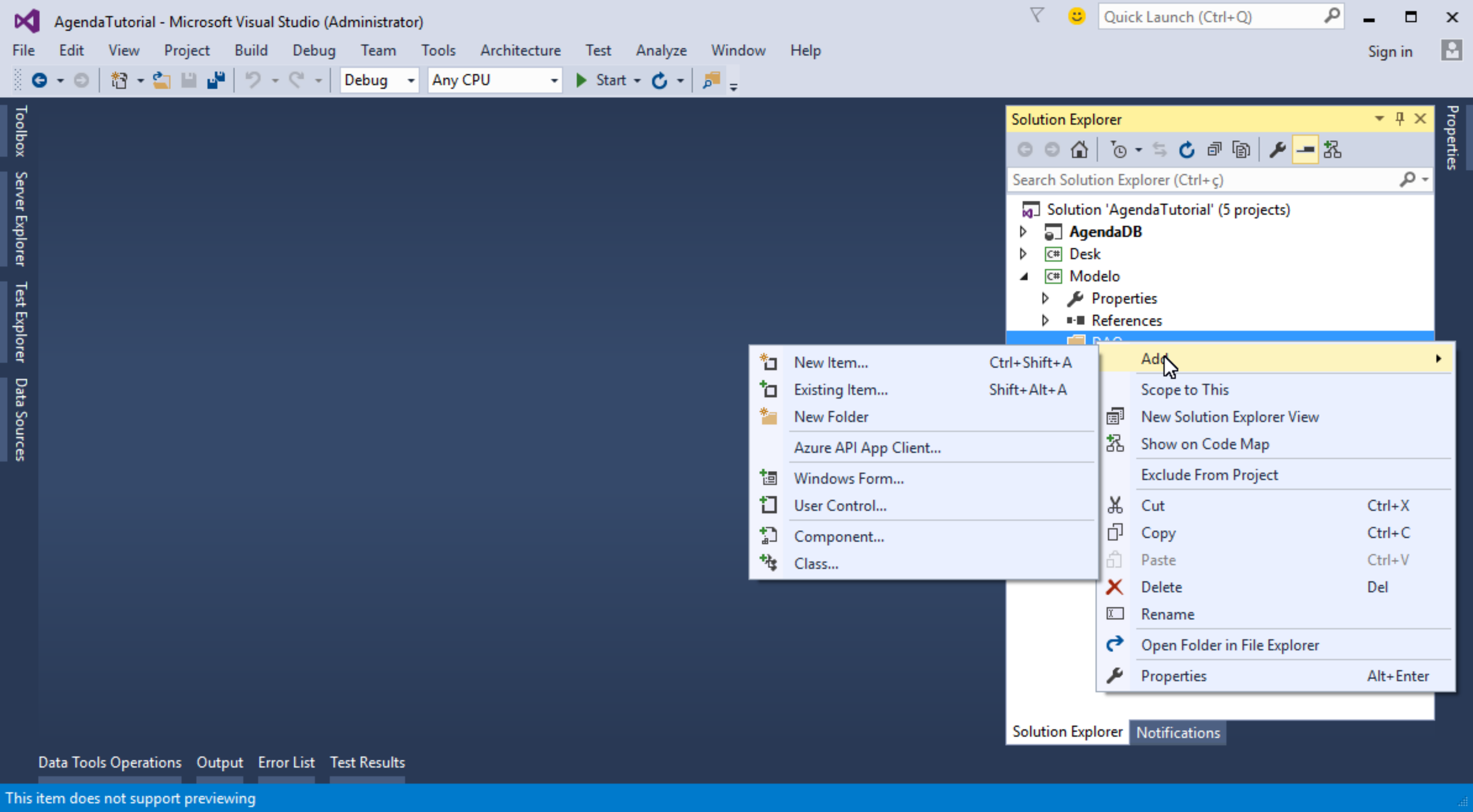
Test Results
This item does not support previewing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Azure API App Client...
Windows Form...
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Component...
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Paste Ctrl+V
Delete Del
Rename
Open Folder in File Explorer
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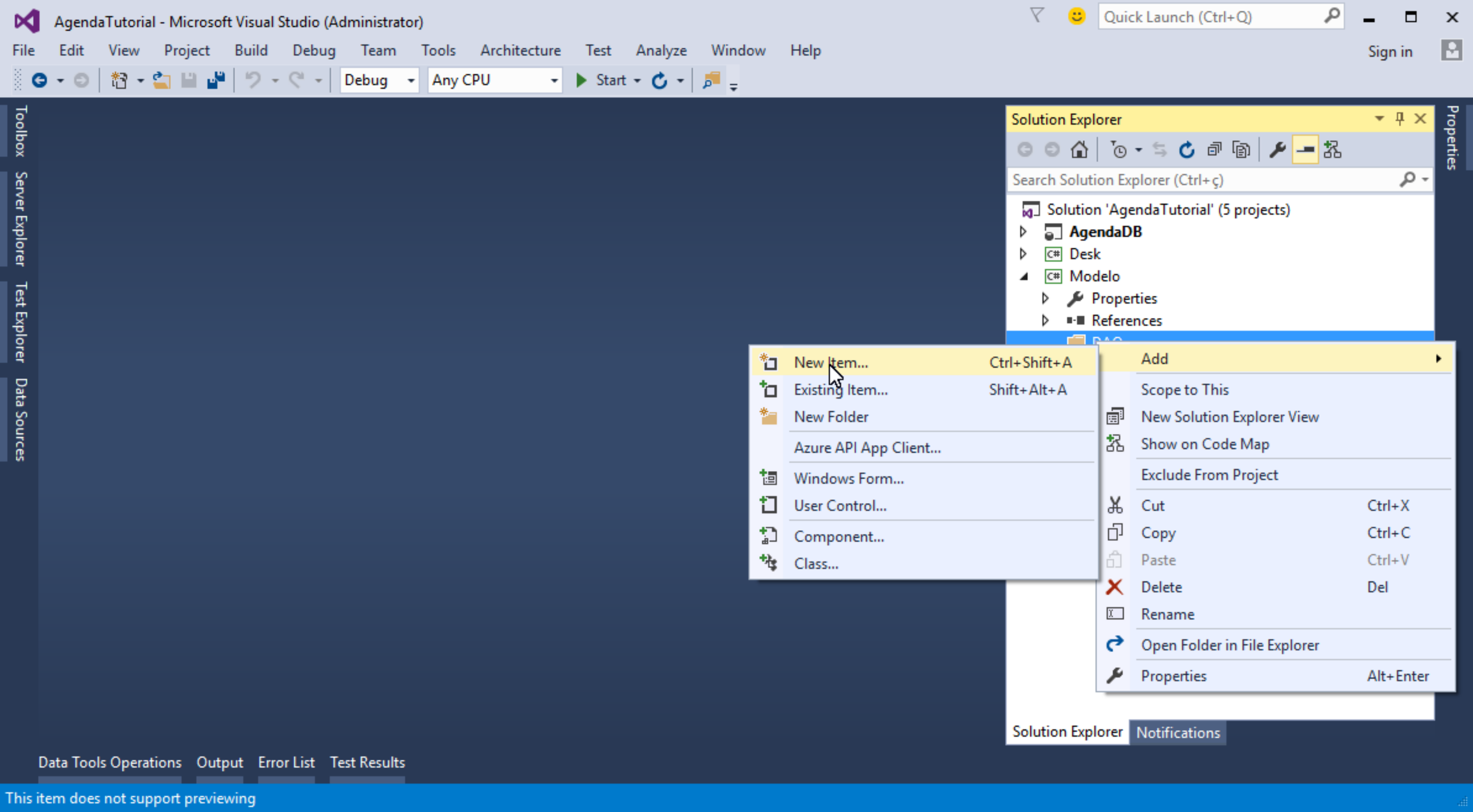
This item does not support previewing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Properties Alt+Enter
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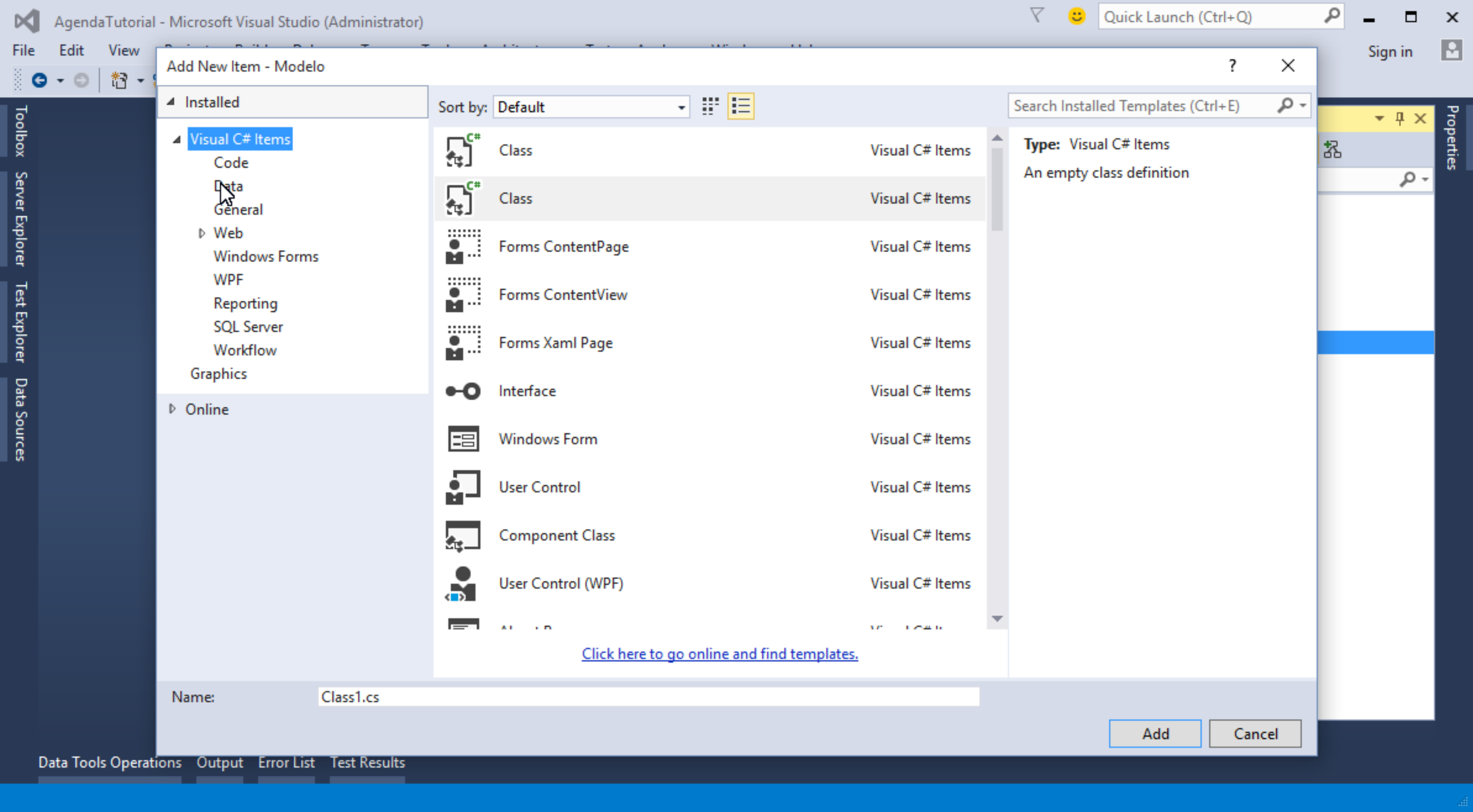
AgendaTutorial - Microsoft Visual Studio (Administrator)
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Class
Visual C# Items
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Visual C# Items
Forms ContentView
Visual C# Items
Forms Xaml Page
Visual C# Items
Interface
Visual C# Items
Windows Form
Visual C# Items
User Control
Visual C# Items
Component Class
Visual C# Items
User Control (WPF)
Visual C# Items
Type: Visual C# Items
An empty class definition
Click here to go online and find templates.
Name:
Class1.cs
Add
Cancel
Toolbox
Server Explorer
Test Explorer
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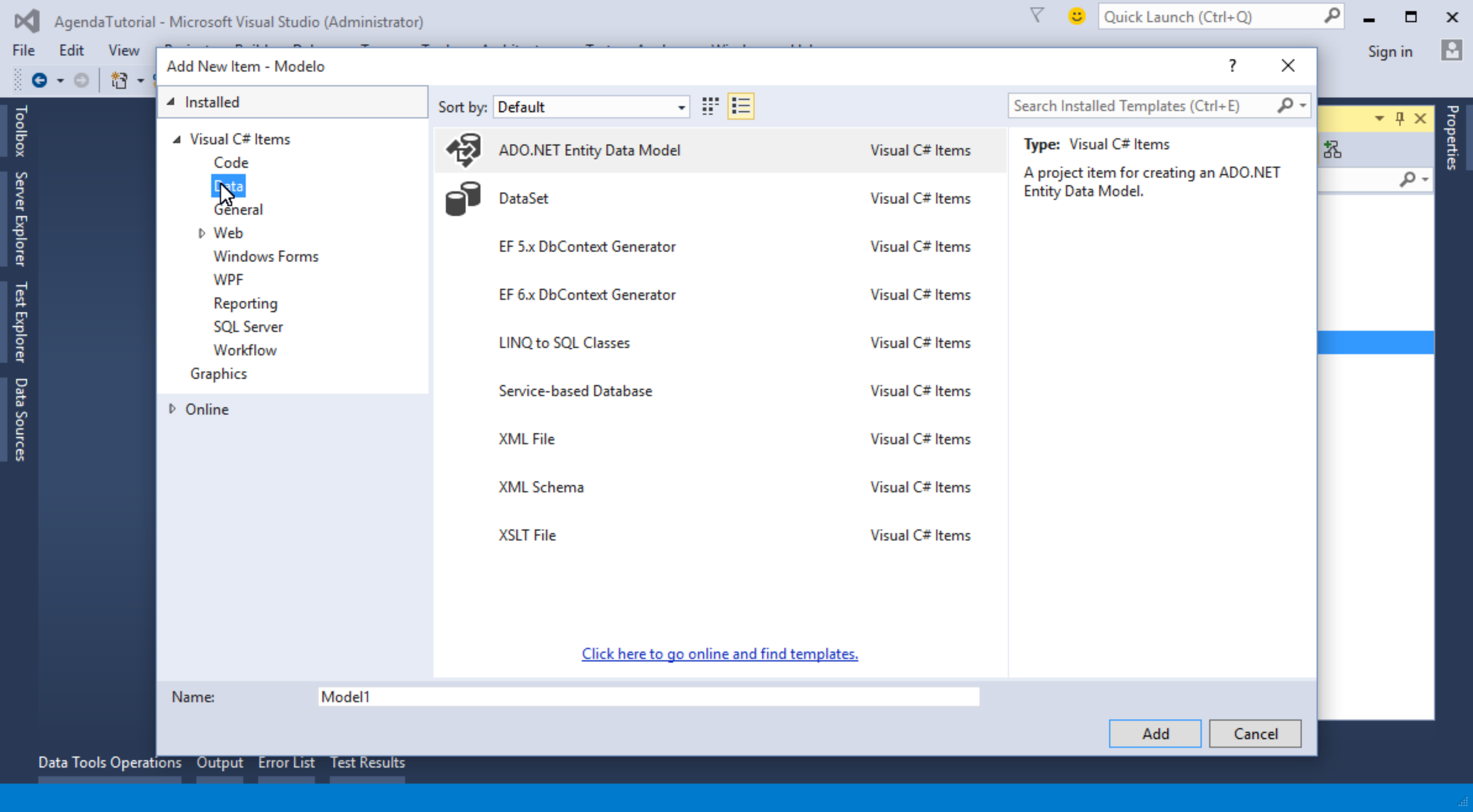
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ADO.NET Entity Data Model
Visual C# Items
DataSet
Visual C# Items
EF 5.x DbContext Generator
Visual C# Items
EF 6.x DbContext Generator
Visual C# Items
LINQ to SQL Classes
Visual C# Items
Service-based Database
Visual C# Items
XML File
Visual C# Items
XML Schema
Visual C# Items
XSLT File
Visual C# Items
Type: Visual C# Items
A project item for creating an ADO.NET Entity Data Model.
Click here to go online and find templates.
Name:
Model1
Add
Cancel
Toolbox
Server Explorer
Test Explorer
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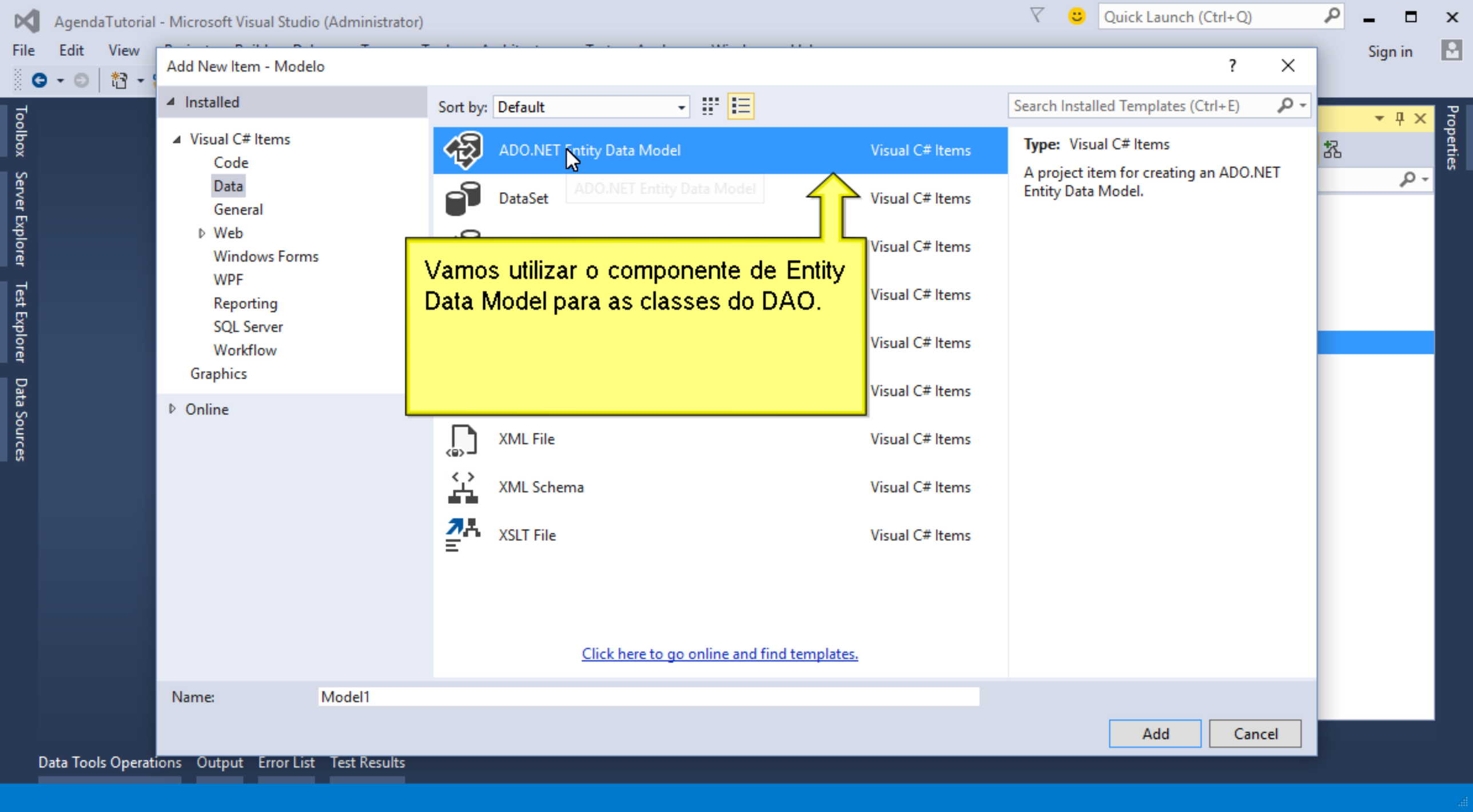
AgendaTutorial - Microsoft Visual Studio (Administrator)
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ADO.NET Entity Data Model
Visual C# Items
DataSet
Visual C# Items
XML File
Visual C# Items
XML Schema
Visual C# Items
XSLT File
Visual C# Items
Type: Visual C# Items
A project item for creating an ADO.NET Entity Data Model.
Vamos utilizar o componente de Entity Data Model para as classes do DAO.
Click here to go online and find templates.
Name: Model1
Add
Cancel
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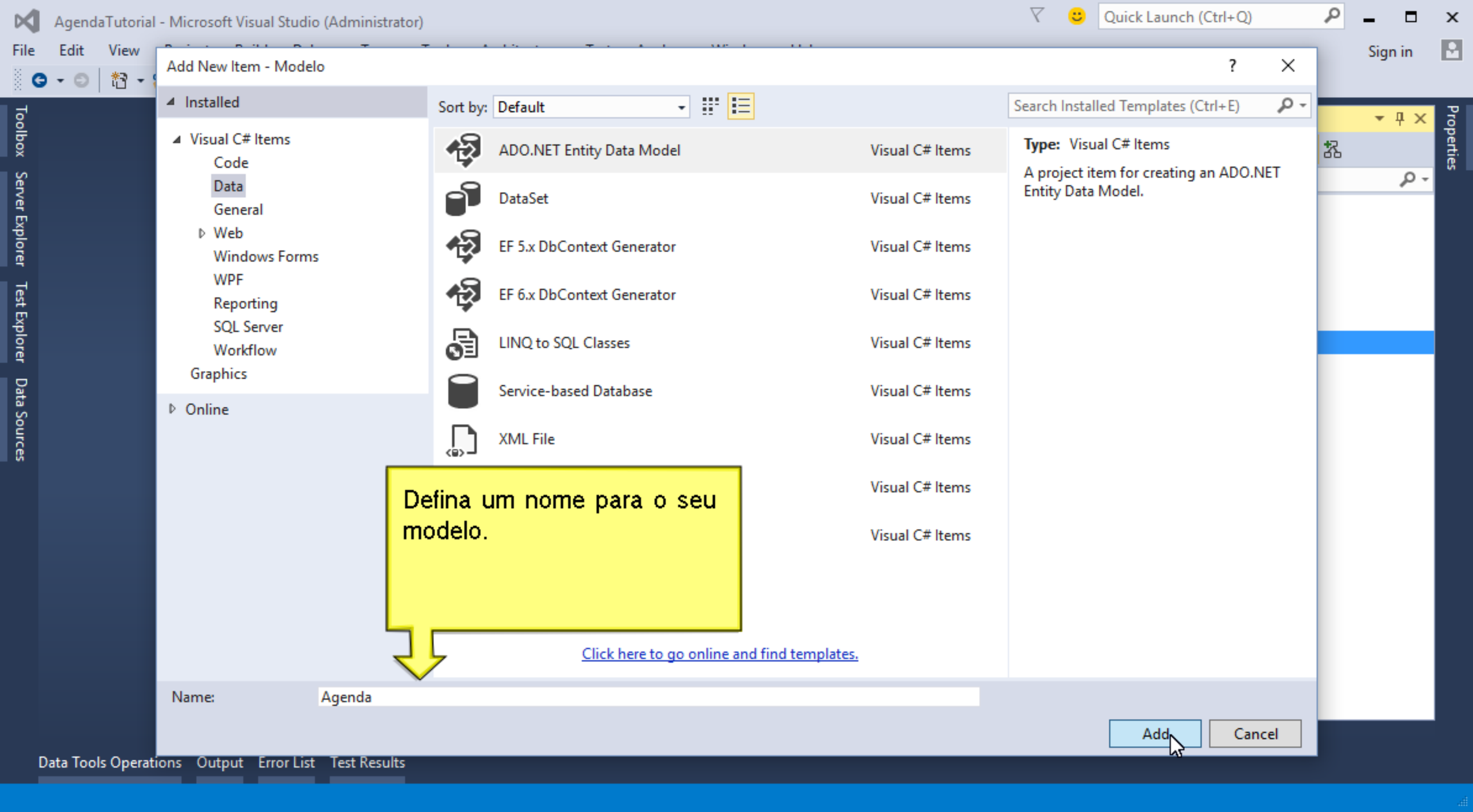
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DataSet Visual C# Items
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EF 6.x DbContext Generator Visual C# Items
LINQ to SQL Classes Visual C# Items
Service-based Database Visual C# Items
XML File Visual C# Items
Visual C# Items
Visual C# Items
Type: Visual C# Items
A project item for creating an ADO.NET Entity Data Model.
Defina um nome para o seu modelo.
Click here to go online and find templates.
Name: Agenda
Add
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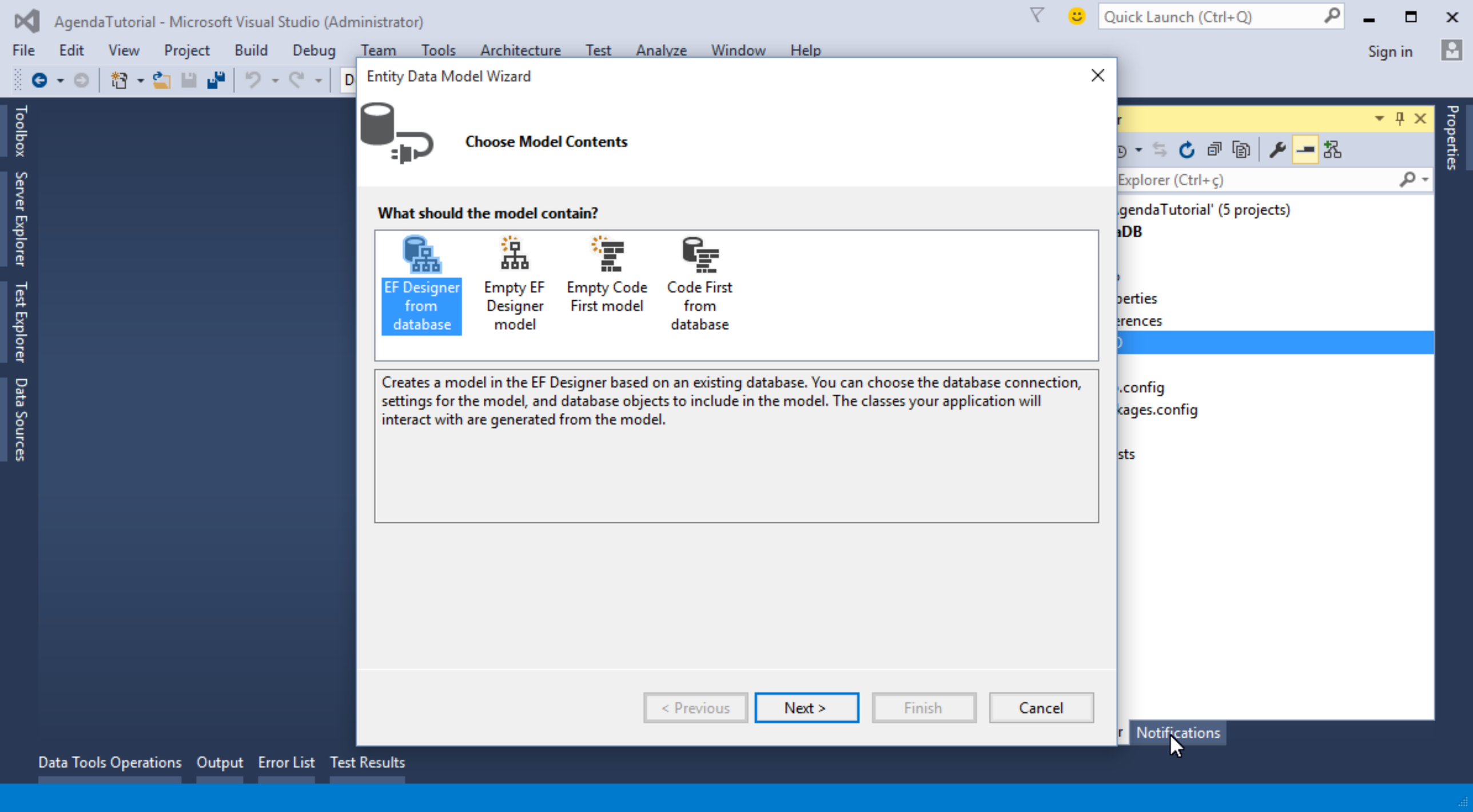
AgendaTutorial - Microsoft Visual Studio (Administrator)
Quick Launch (Ctrl+Q)
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Sign in
Entity Data Model Wizard
Choose Model Contents
What should the model contain?
EF Designer from database
Empty EF Designer model
Empty Code First model
Code First from database
Creates a model in the EF Designer based on an existing database. You can choose the database connection, settings for the model, and database objects to include in the model. The classes your application will interact with are generated from the model.
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Finish
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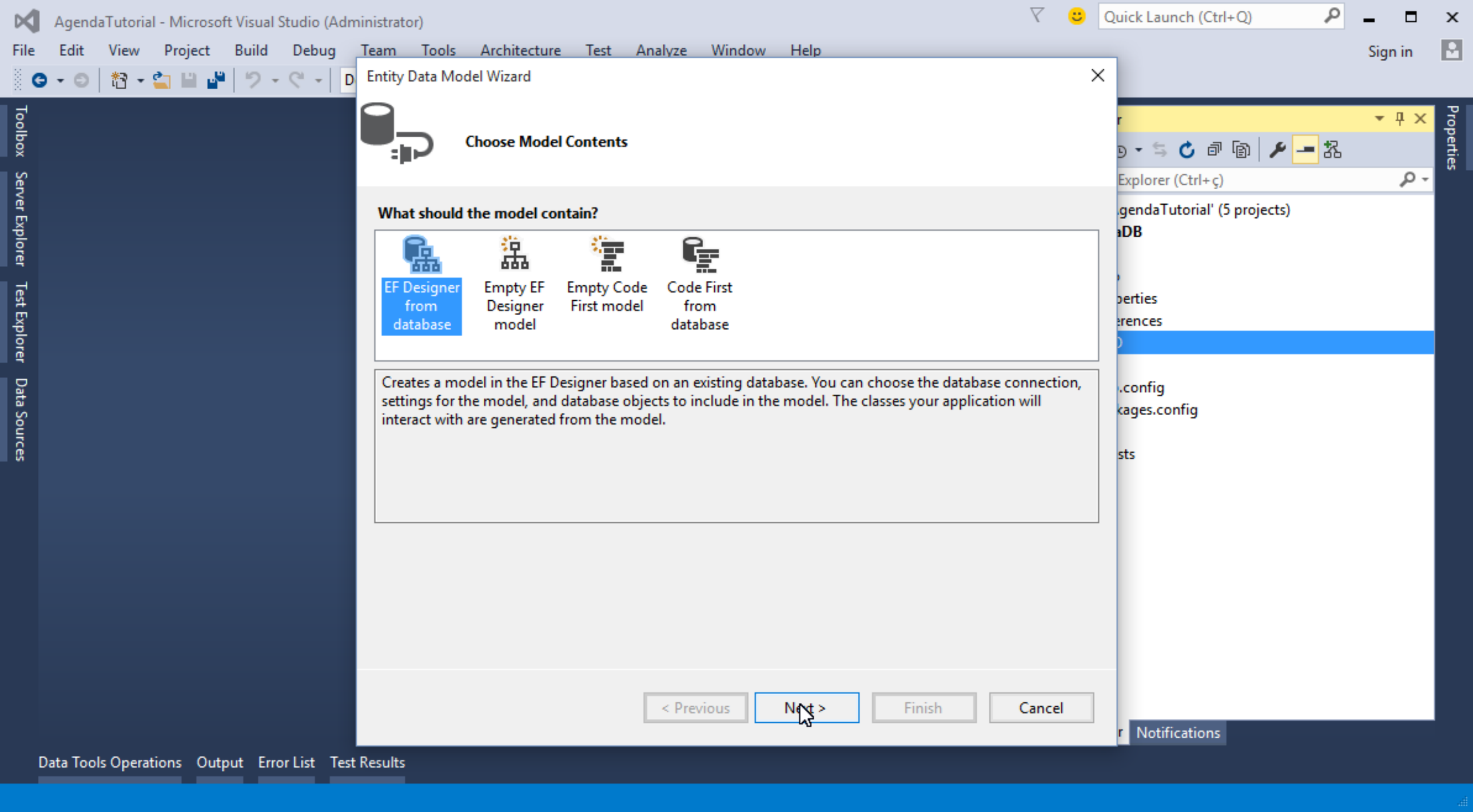
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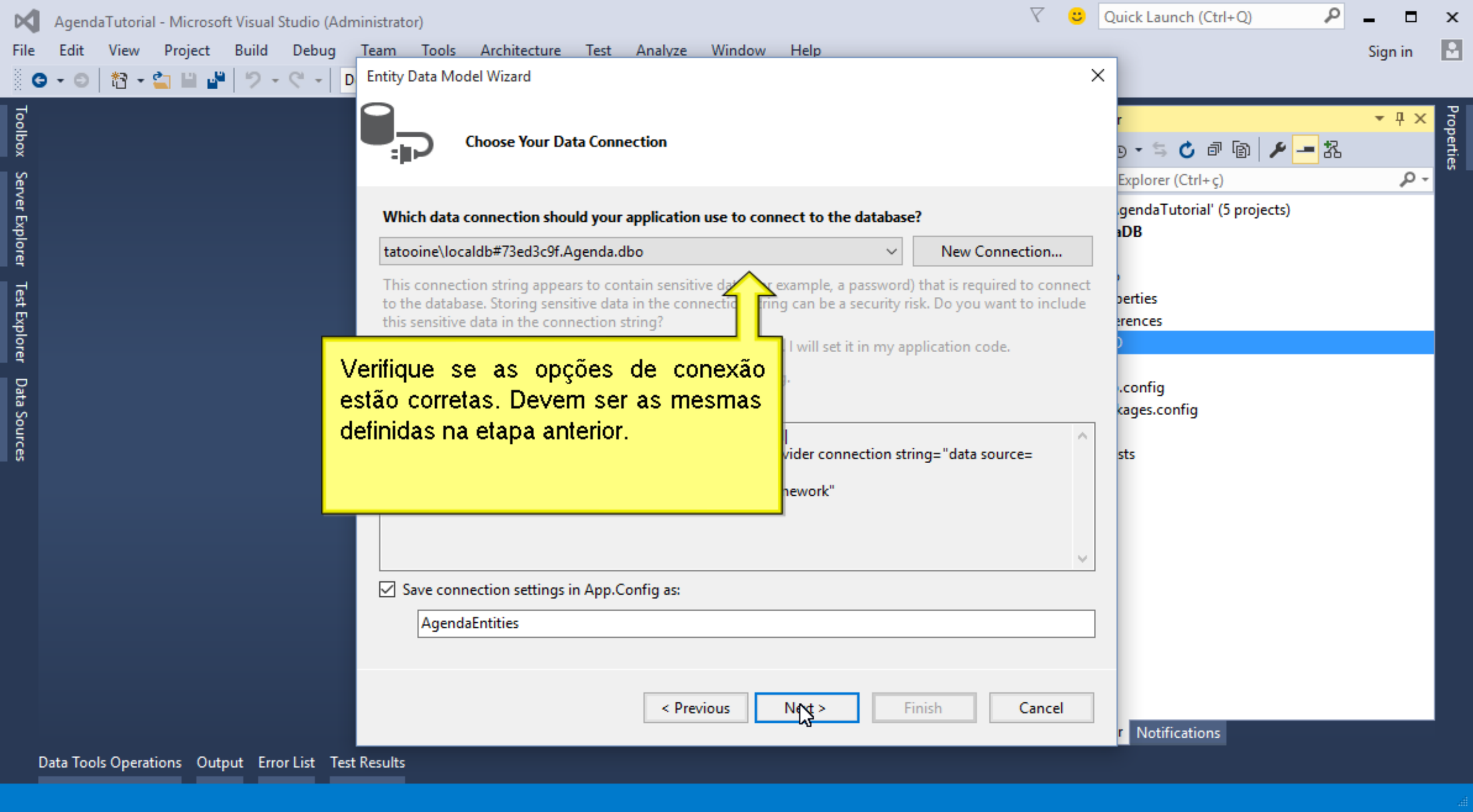
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Sign in
Entity Data Model Wizard
Choose Your Data Connection
Which data connection should your application use to connect to the database?
tatooine\localdb#73ed3c9f.Agenda.dbo
New Connection...
Verifique se as opções de conexão estão corretas. Devem ser as mesmas definidas na etapa anterior.
Save connection settings in App.Config as:
AgendaEntities
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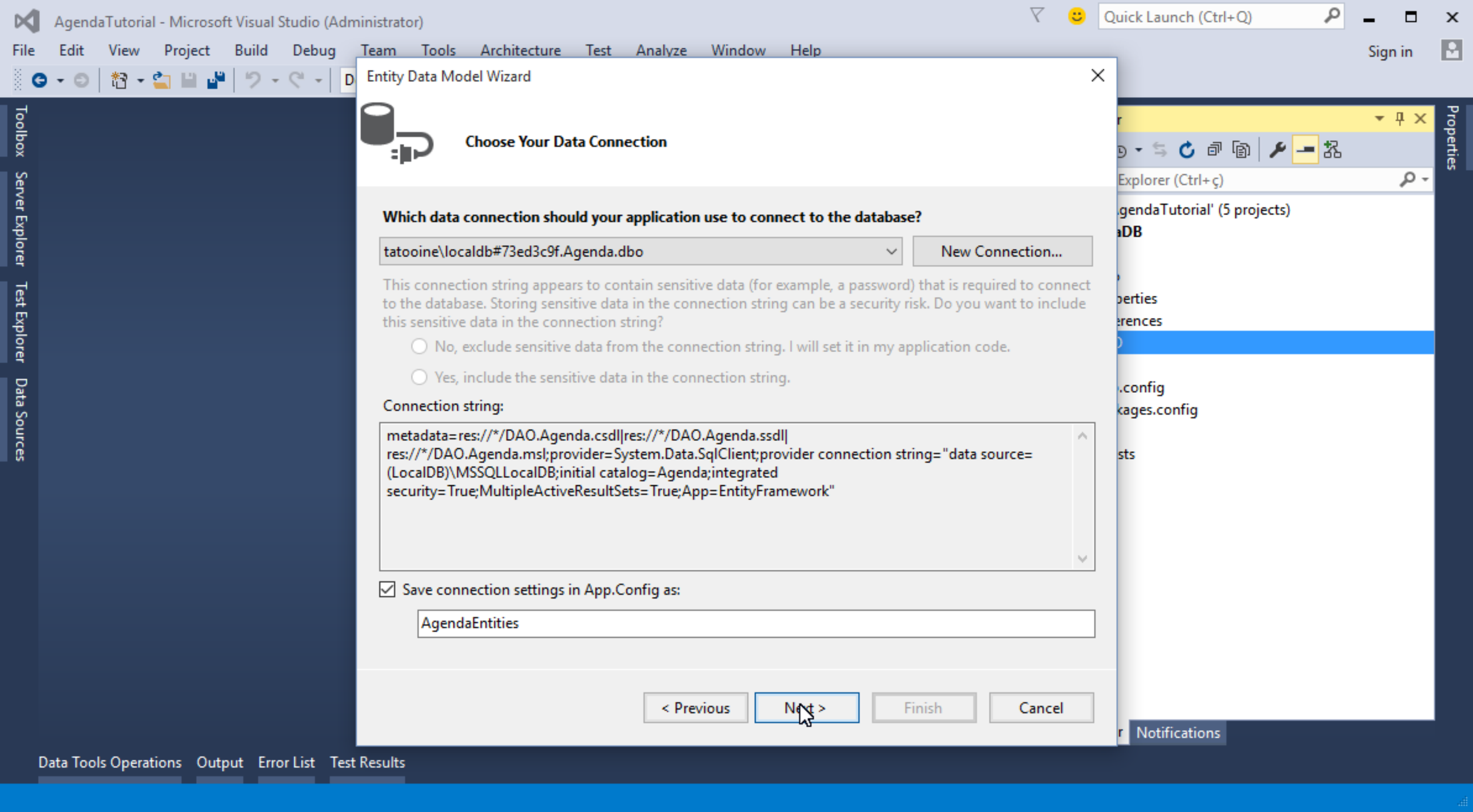
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Sign in
Entity Data Model Wizard
Choose Your Data Connection
Which data connection should your application use to connect to the database?
tatooine\localdb#73ed3c9f.Agenda.dbo
New Connection...
This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?
No, exclude sensitive data from the connection string. I will set it in my application code.
Yes, include the sensitive data in the connection string.
Connection string:
metadata=res://*/DAO.Agenda.csdl|res://*/DAO.Agenda.ssdl|
res://*/DAO.Agenda.msl;provider=System.Data.SqlClient;provider connection string="data source=
(LocalDB)\MSSQLLocalDB;initial catalog=Agenda;integrated
security=True;MultipleActiveResultSets=True;App=EntityFramework"
Save connection settings in App.Config as:
AgendaEntities
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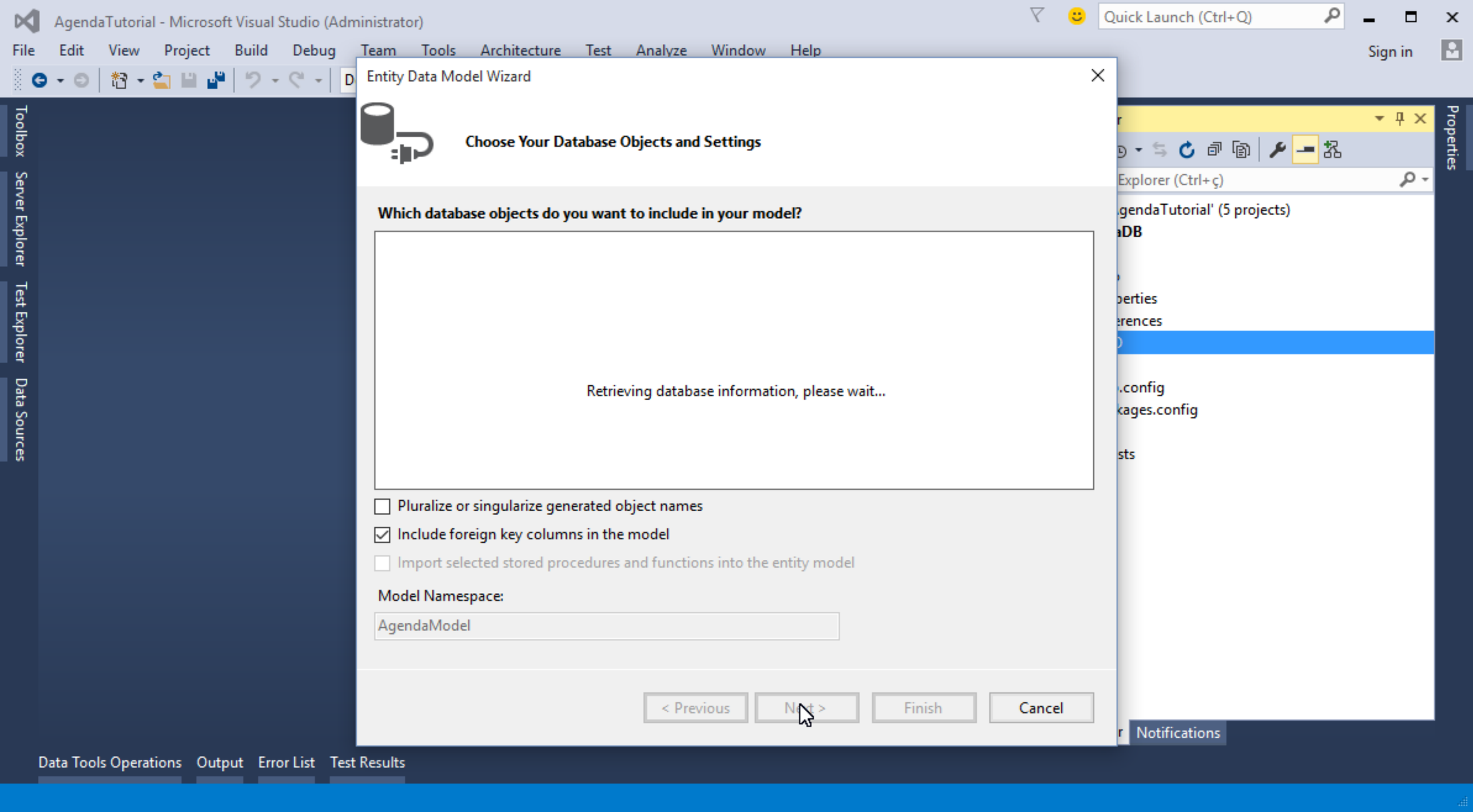
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Entity Data Model Wizard
Choose Your Database Objects and Settings
Which database objects do you want to include in your model?
Retrieving database information, please wait...
Pluralize or singularize generated object names
Include foreign key columns in the model
Import selected stored procedures and functions into the entity model
Model Namespace:
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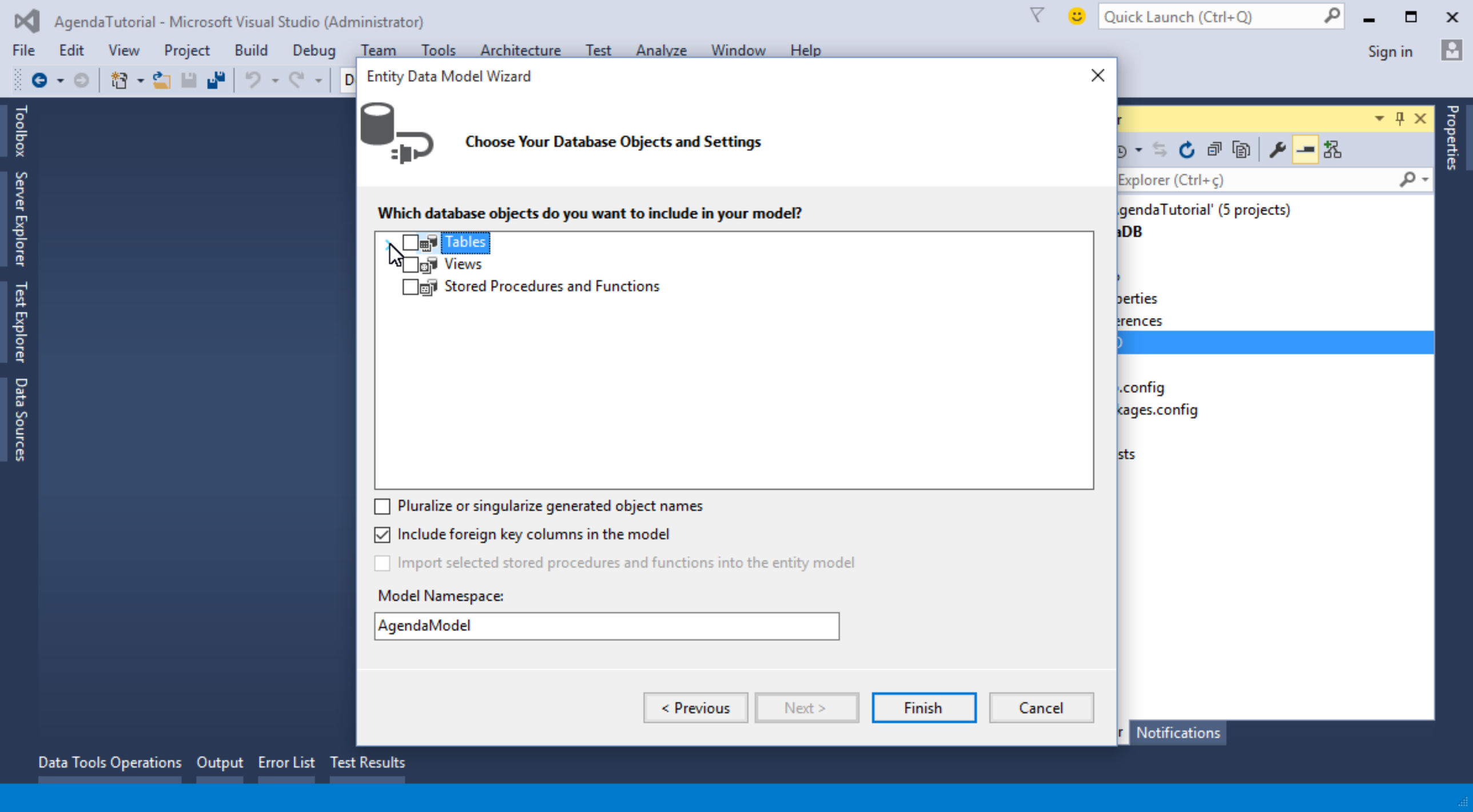
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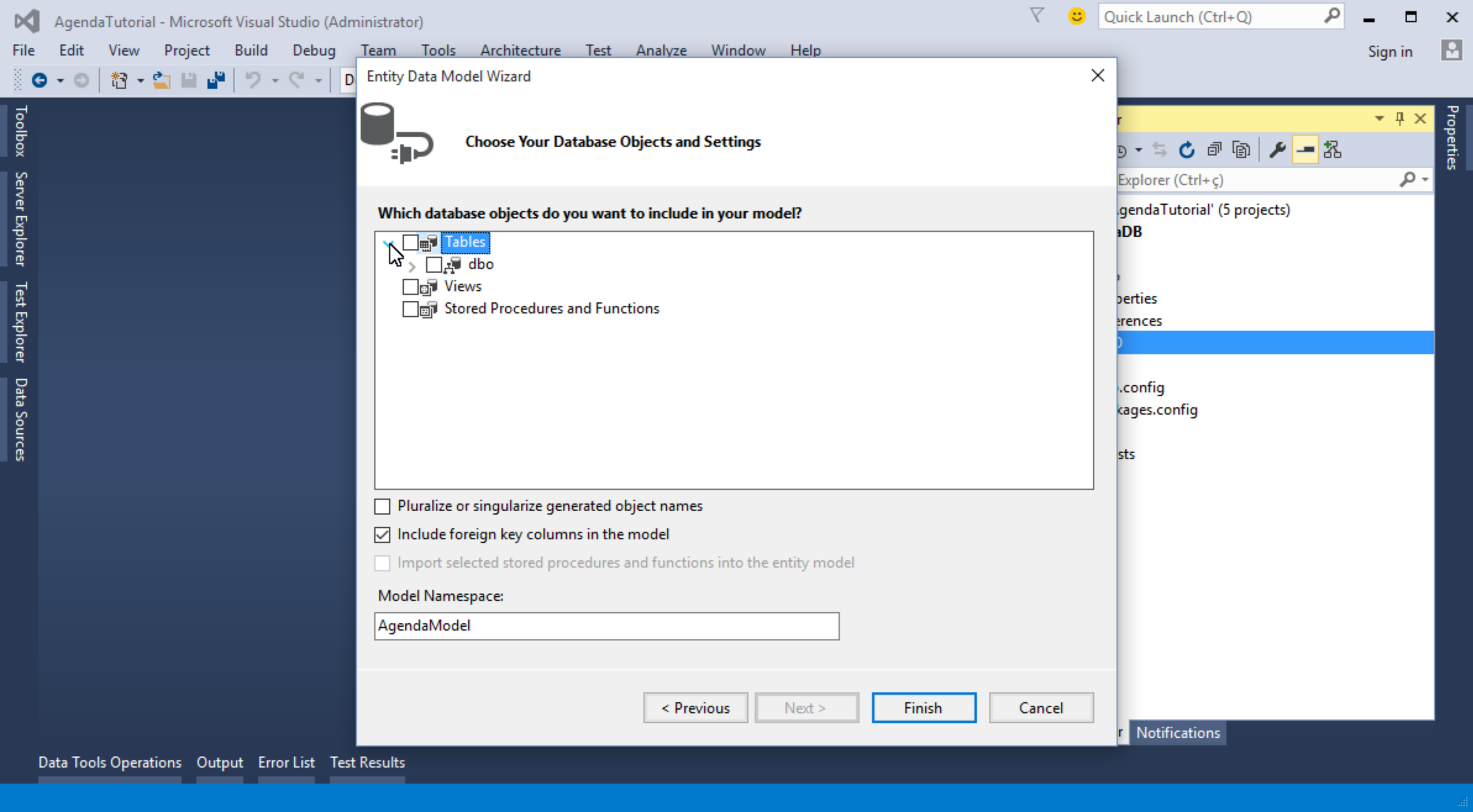
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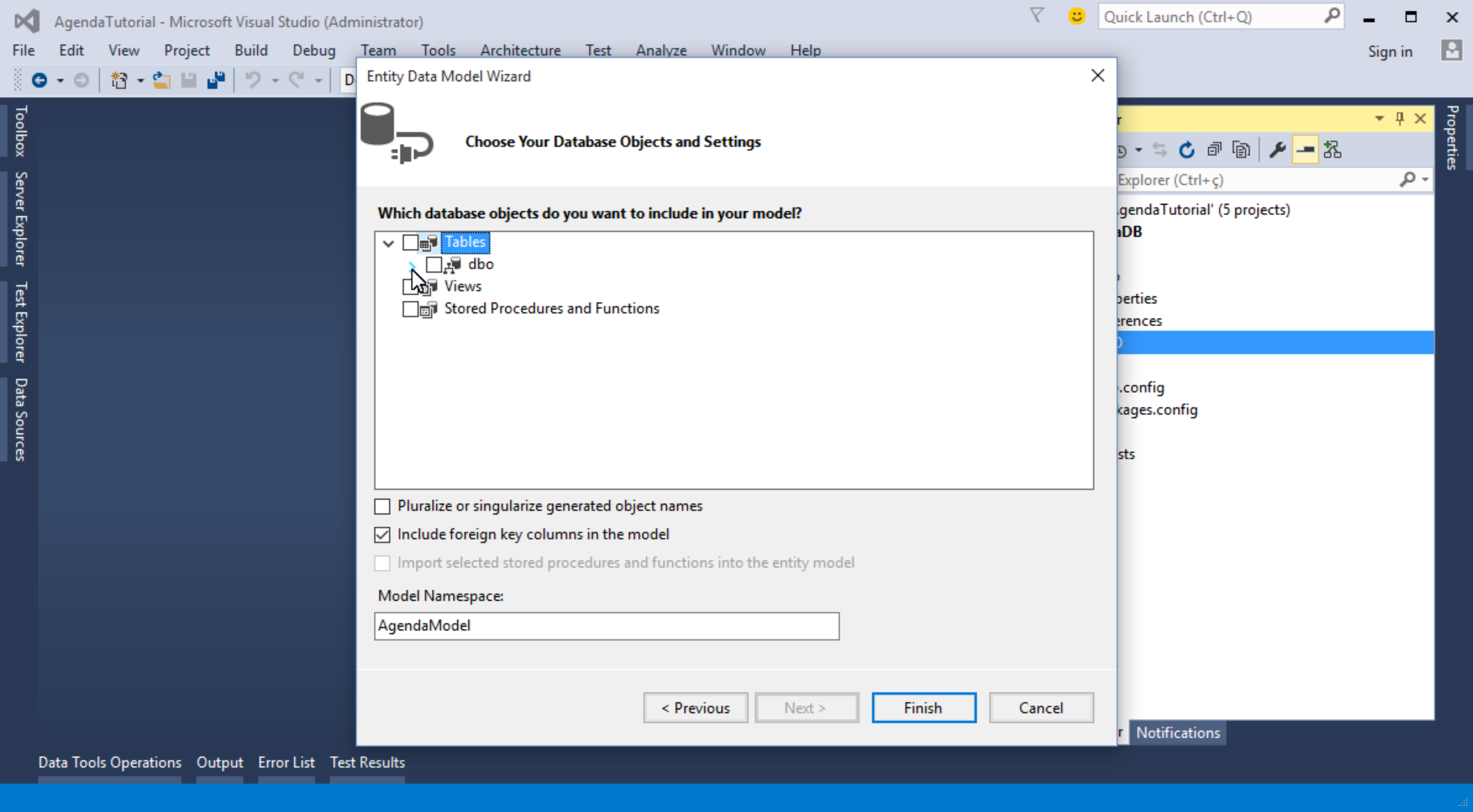
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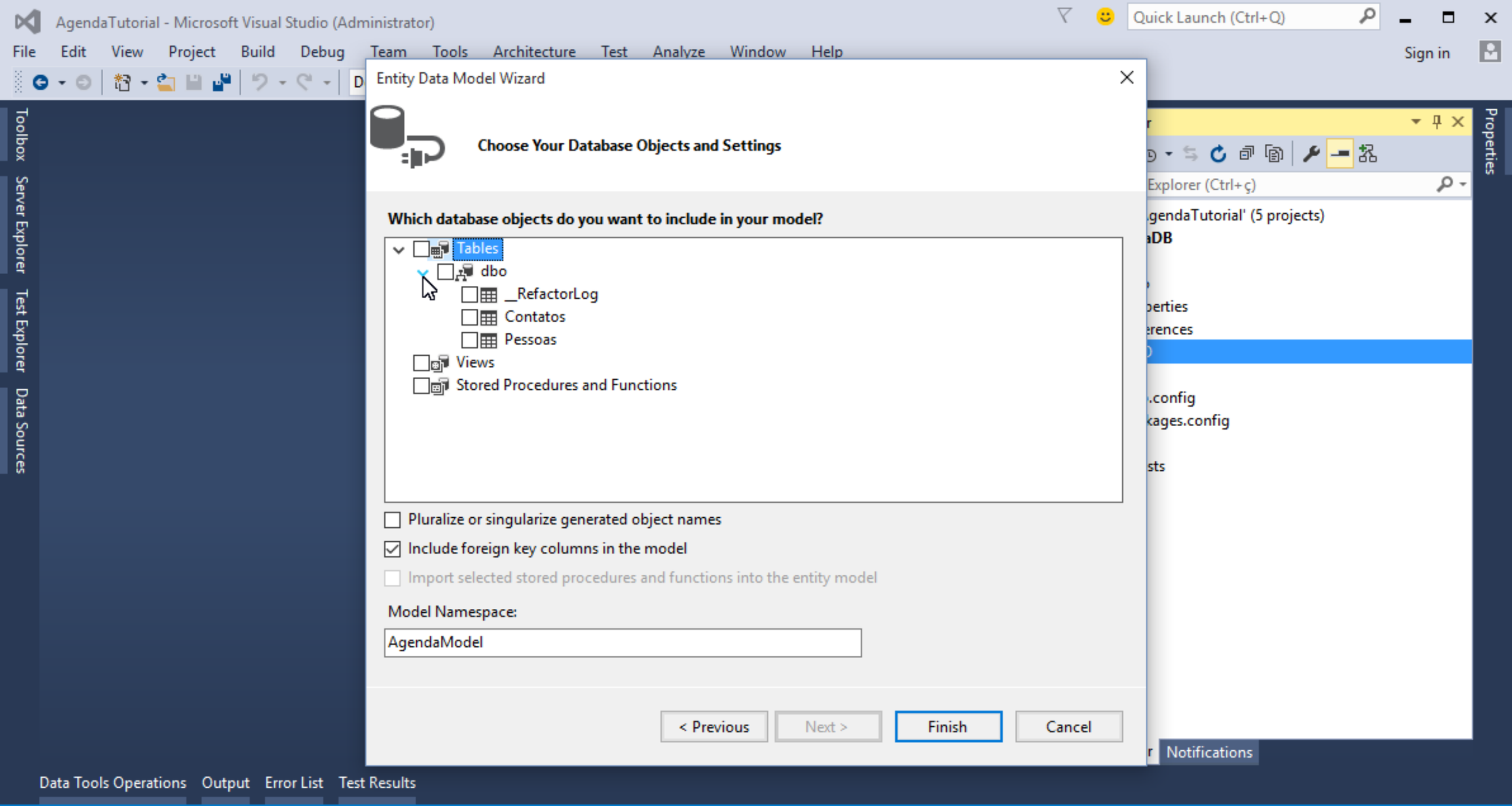
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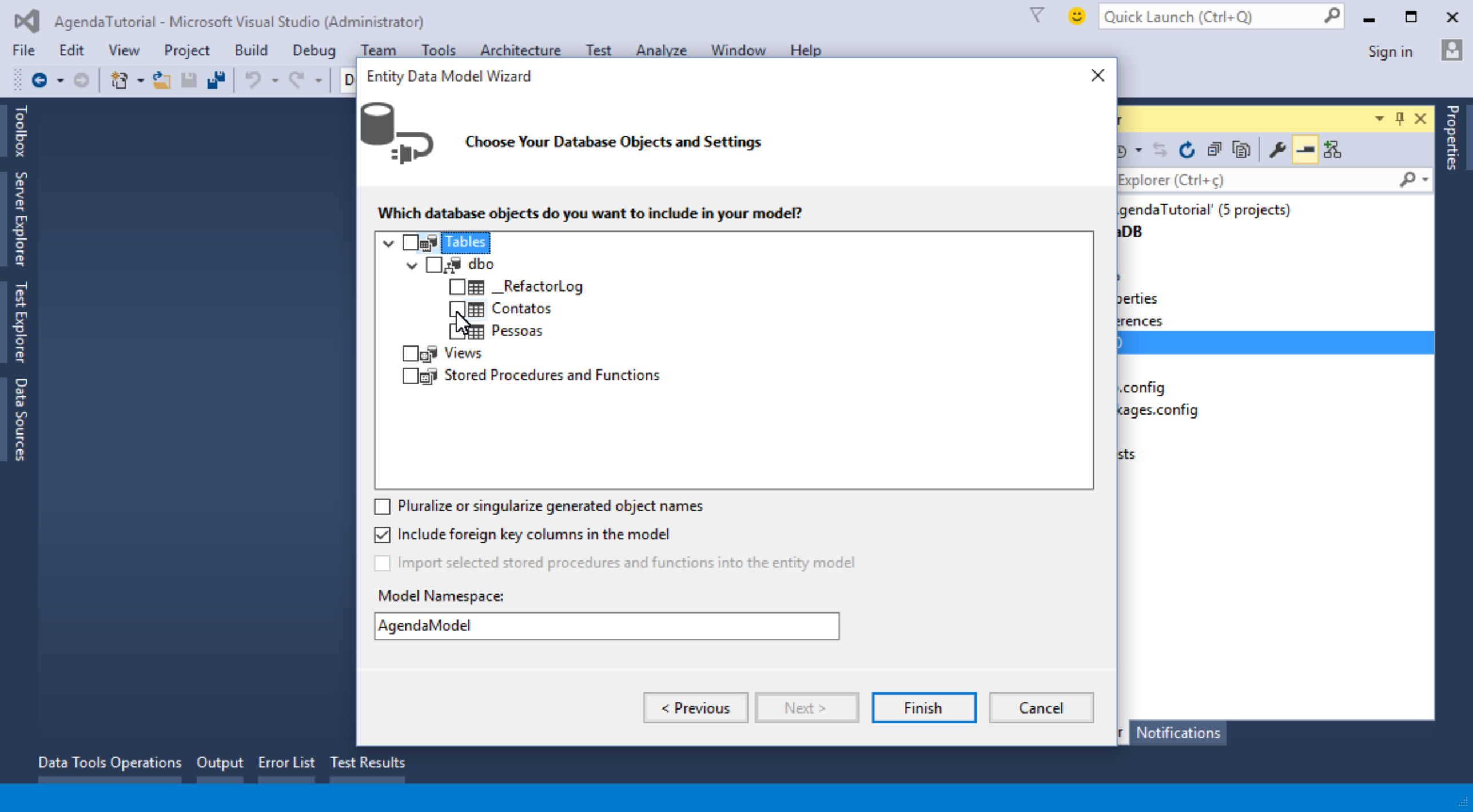
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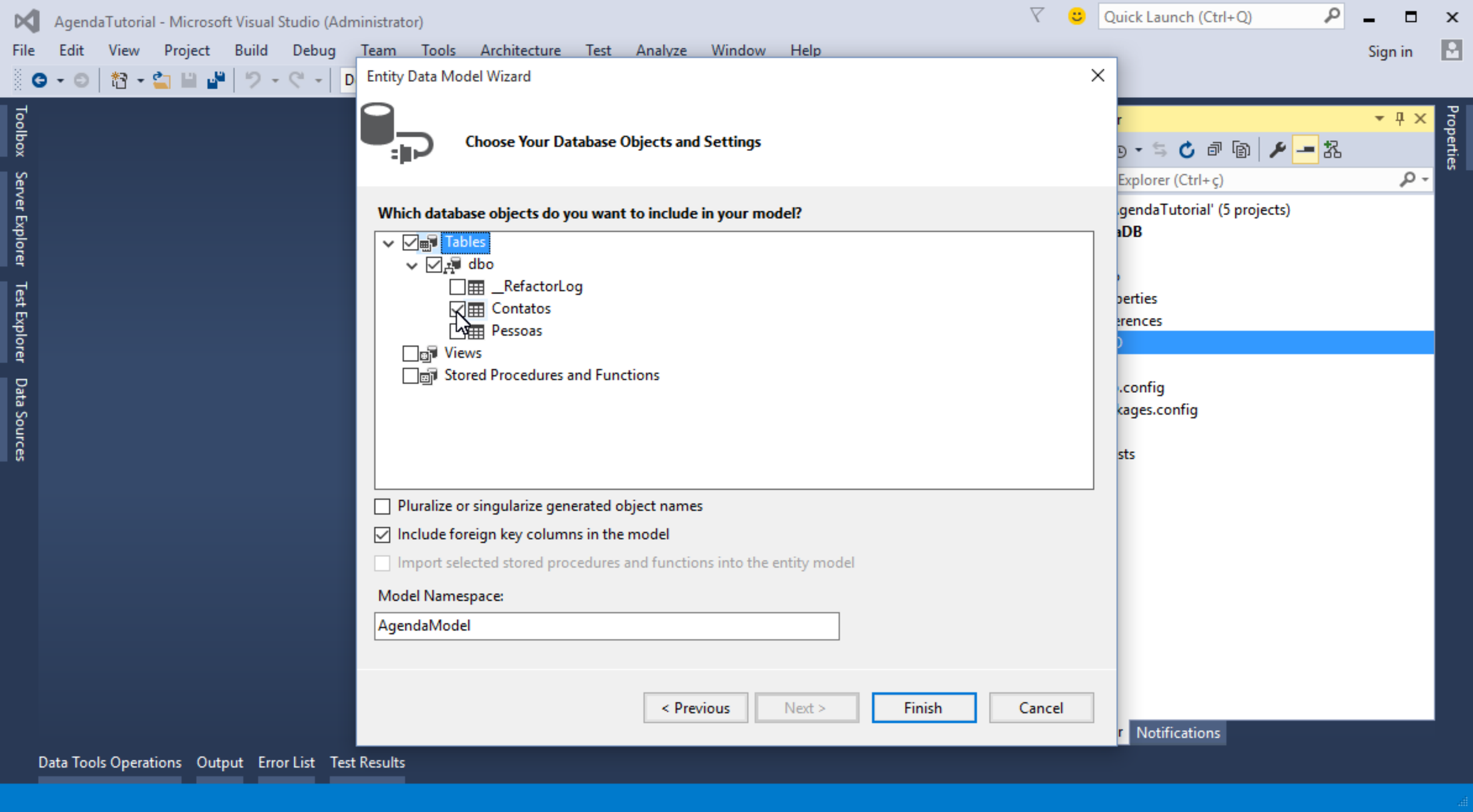
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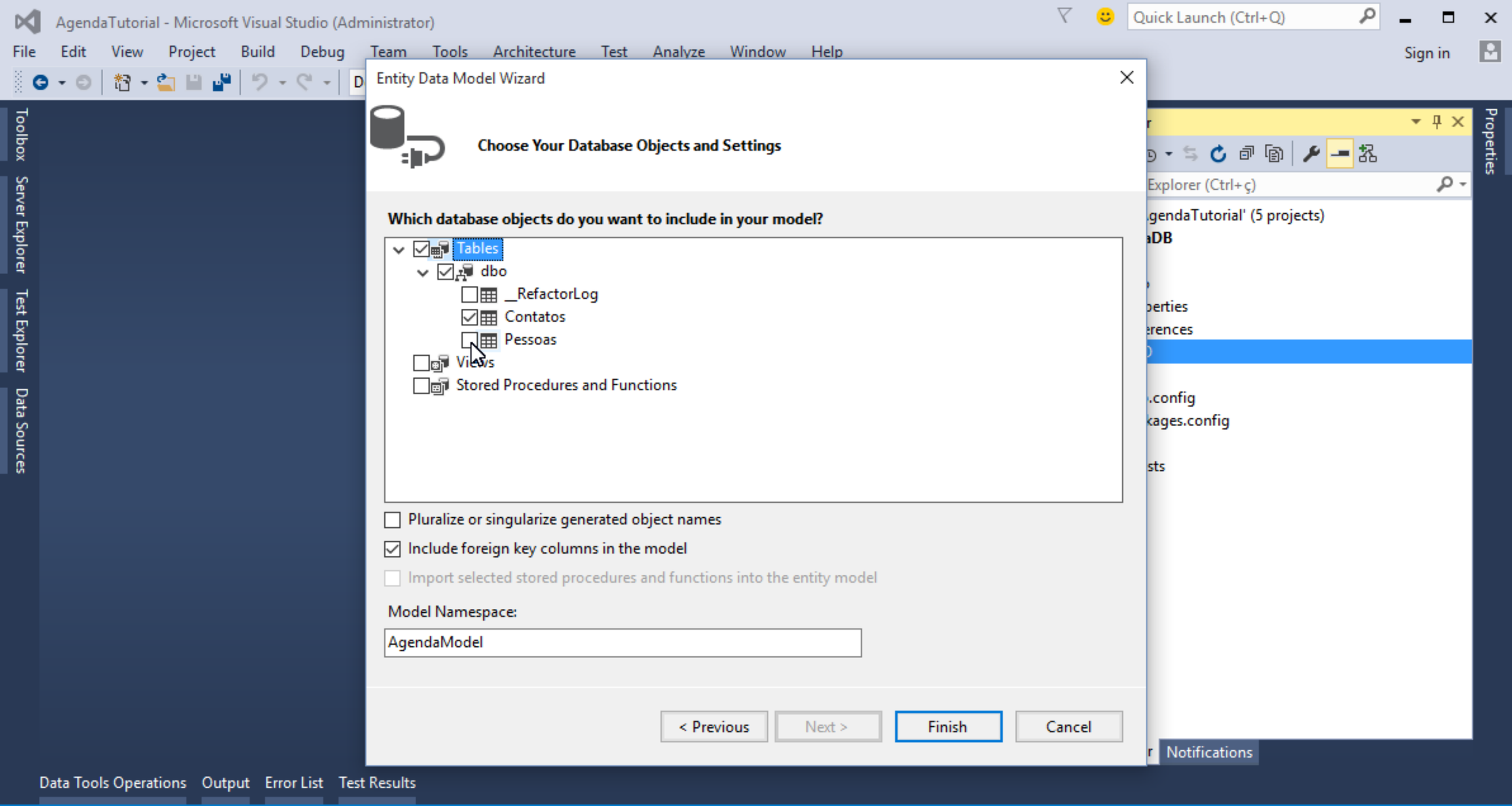
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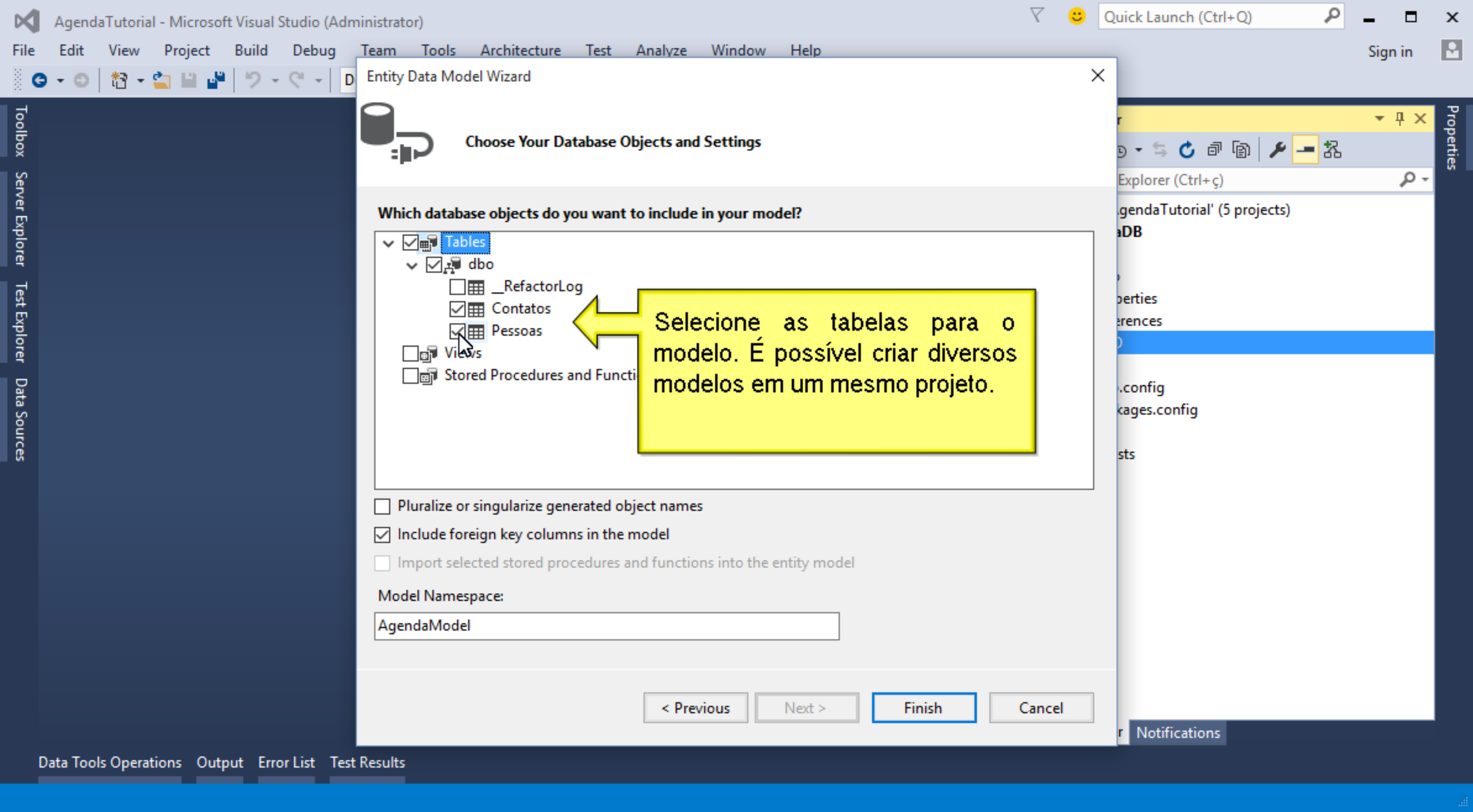
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Entity Data Model Wizard
Choose Your Database Objects and Settings
Which database objects do you want to include in your model?
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Stored Procedures and Functi
Selecione as tabelas para o modelo. É possível criar diversos modelos em um mesmo projeto.
Pluralize or singularize generated object names
Include foreign key columns in the model
Import selected stored procedures and functions into the entity model
Model Namespace:
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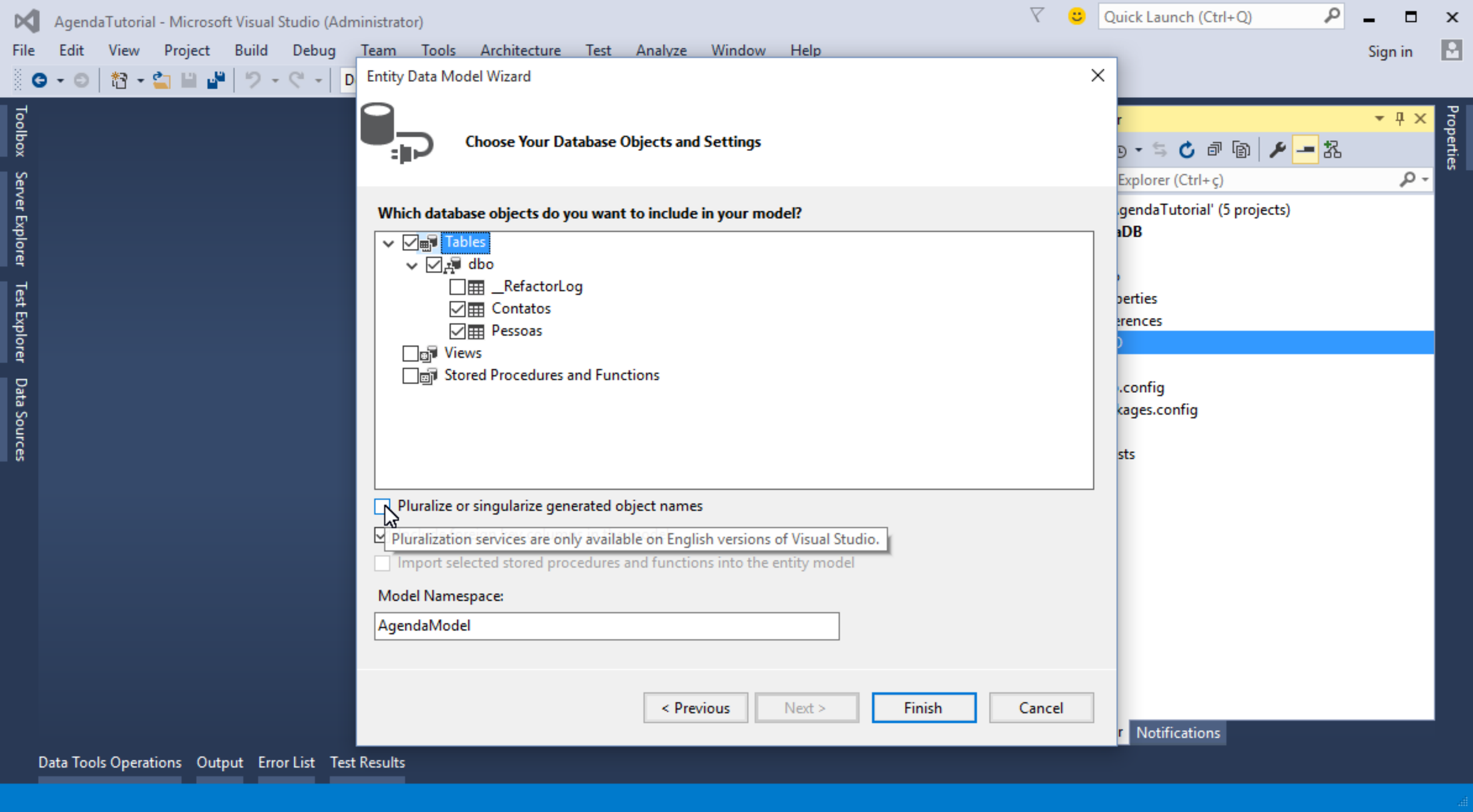
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Which database objects do you want to include in your model?
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Pluralize or singularize generated object names
Pluralization services are only available on English versions of Visual Studio.
Import selected stored procedures and functions into the entity model
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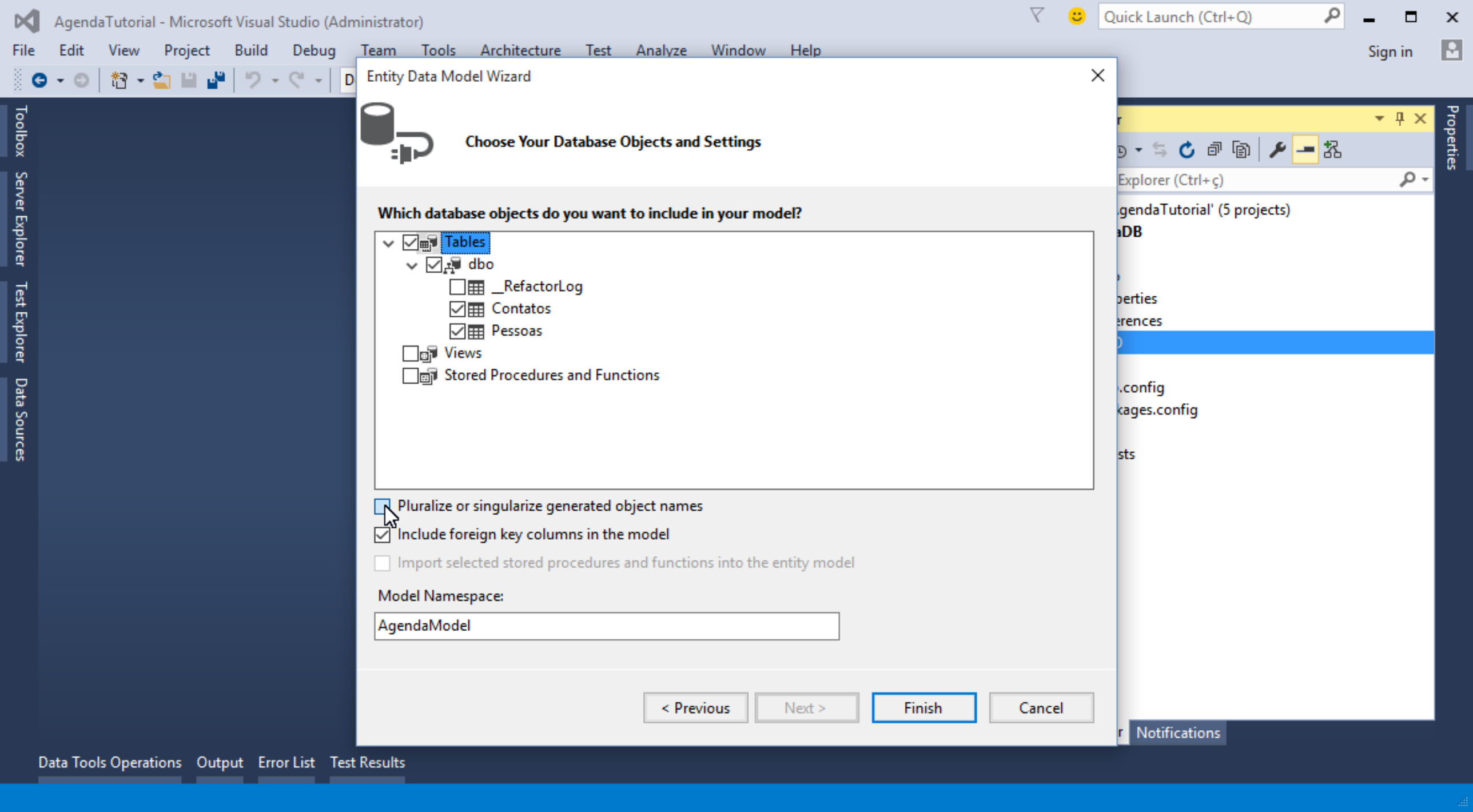
AgendaTutorial - Microsoft Visual Studio (Administrator)
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Sign in
Entity Data Model Wizard
Choose Your Database Objects and Settings
Which database objects do you want to include in your model?
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Pessoas
Views
Stored Procedures and Functions
Pluralize or singularize generated object names
Include foreign key columns in the model
Import selected stored procedures and functions into the entity model
Model Namespace:
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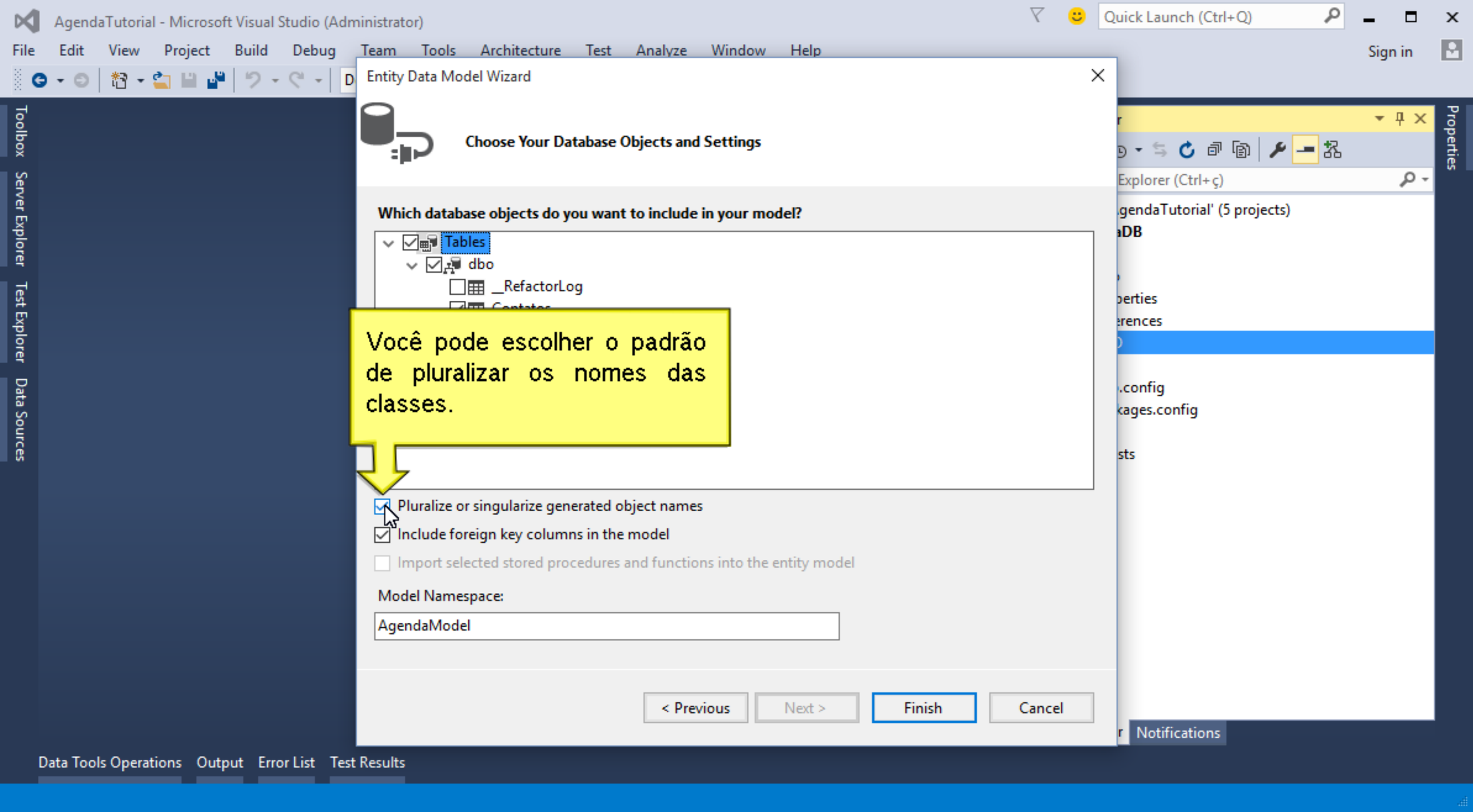
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Sign in
Entity Data Model Wizard
Choose Your Database Objects and Settings
Which database objects do you want to include in your model?
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Pluralize or singularize generated object names
Include foreign key columns in the model
Import selected stored procedures and functions into the entity model
Model Namespace:
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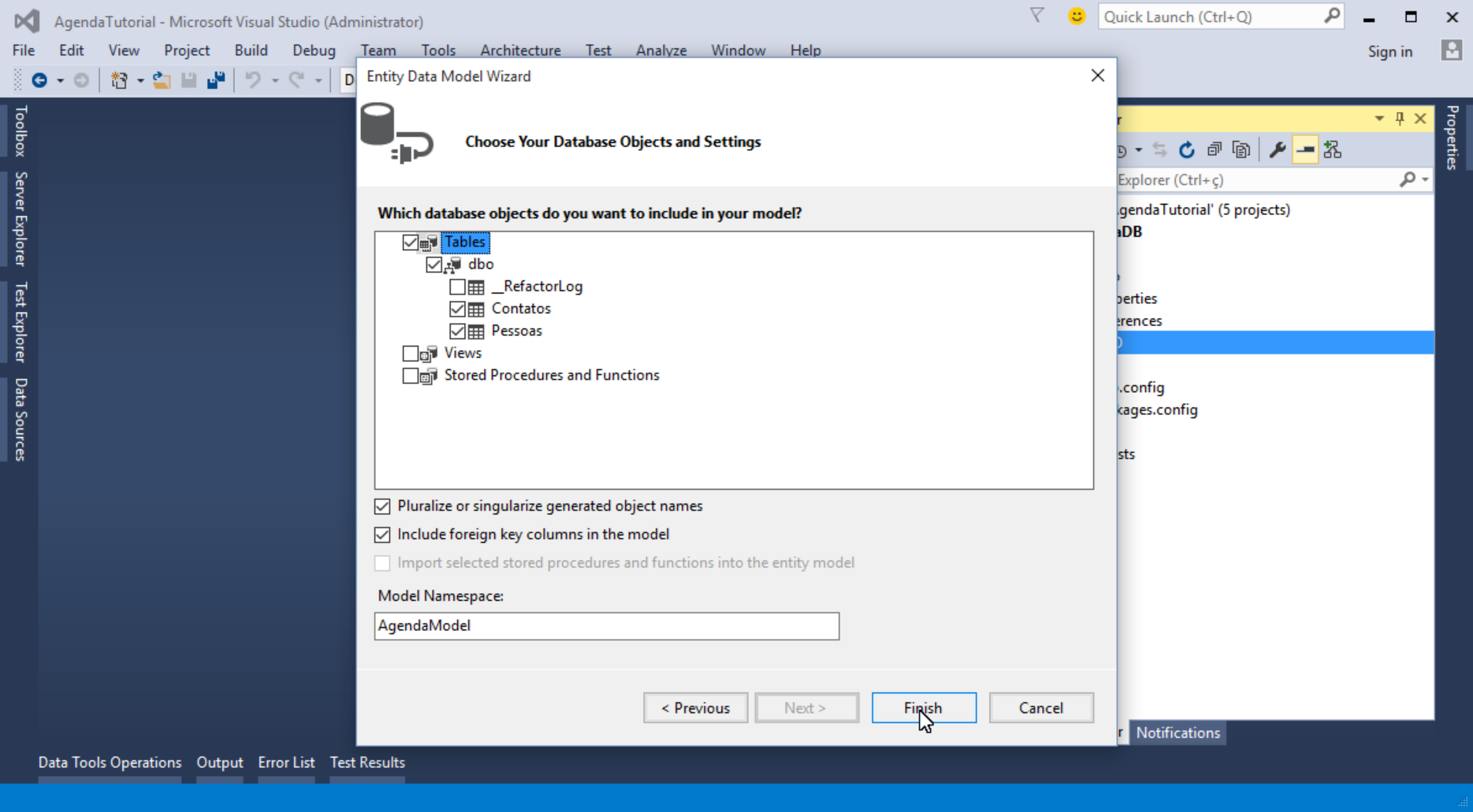
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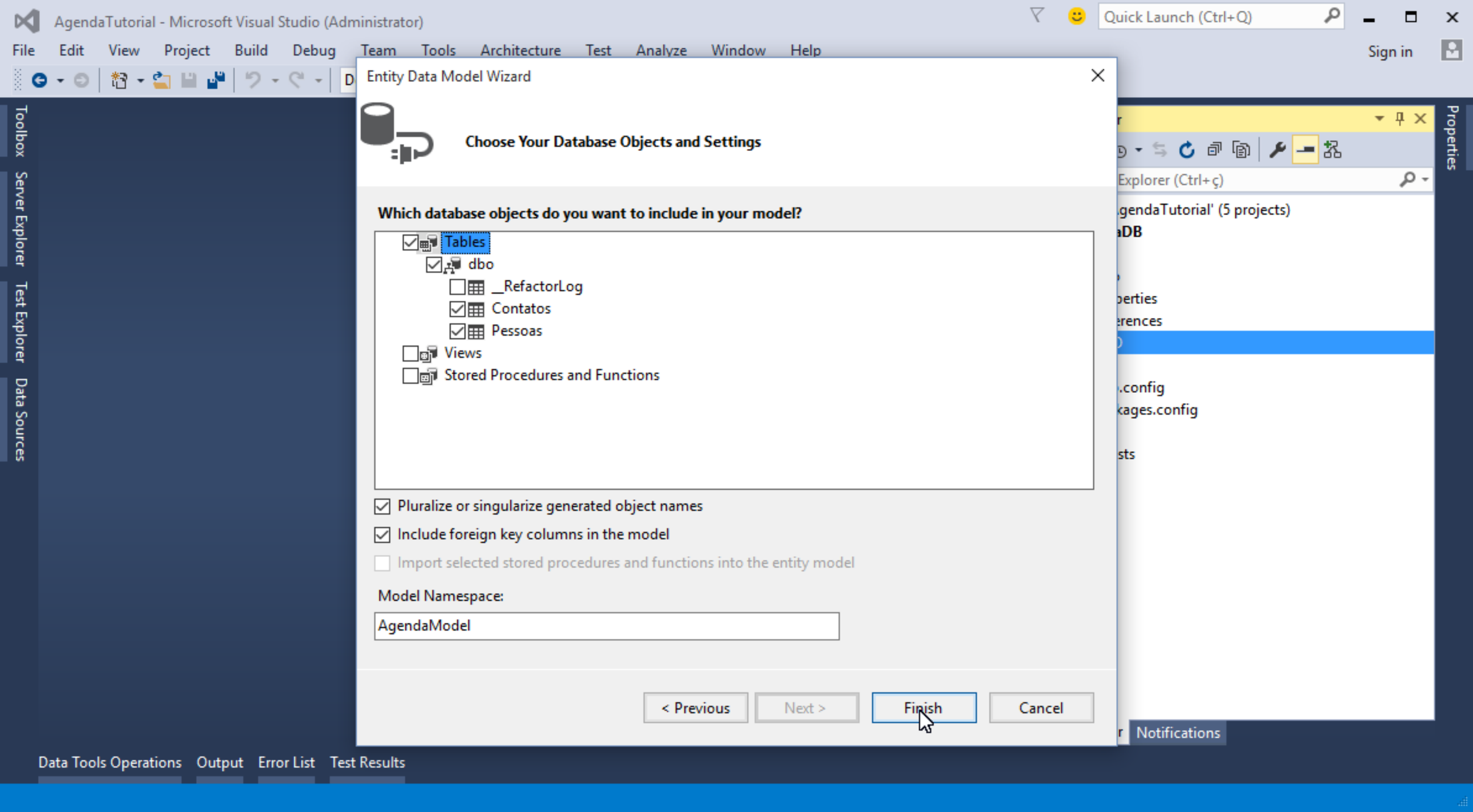
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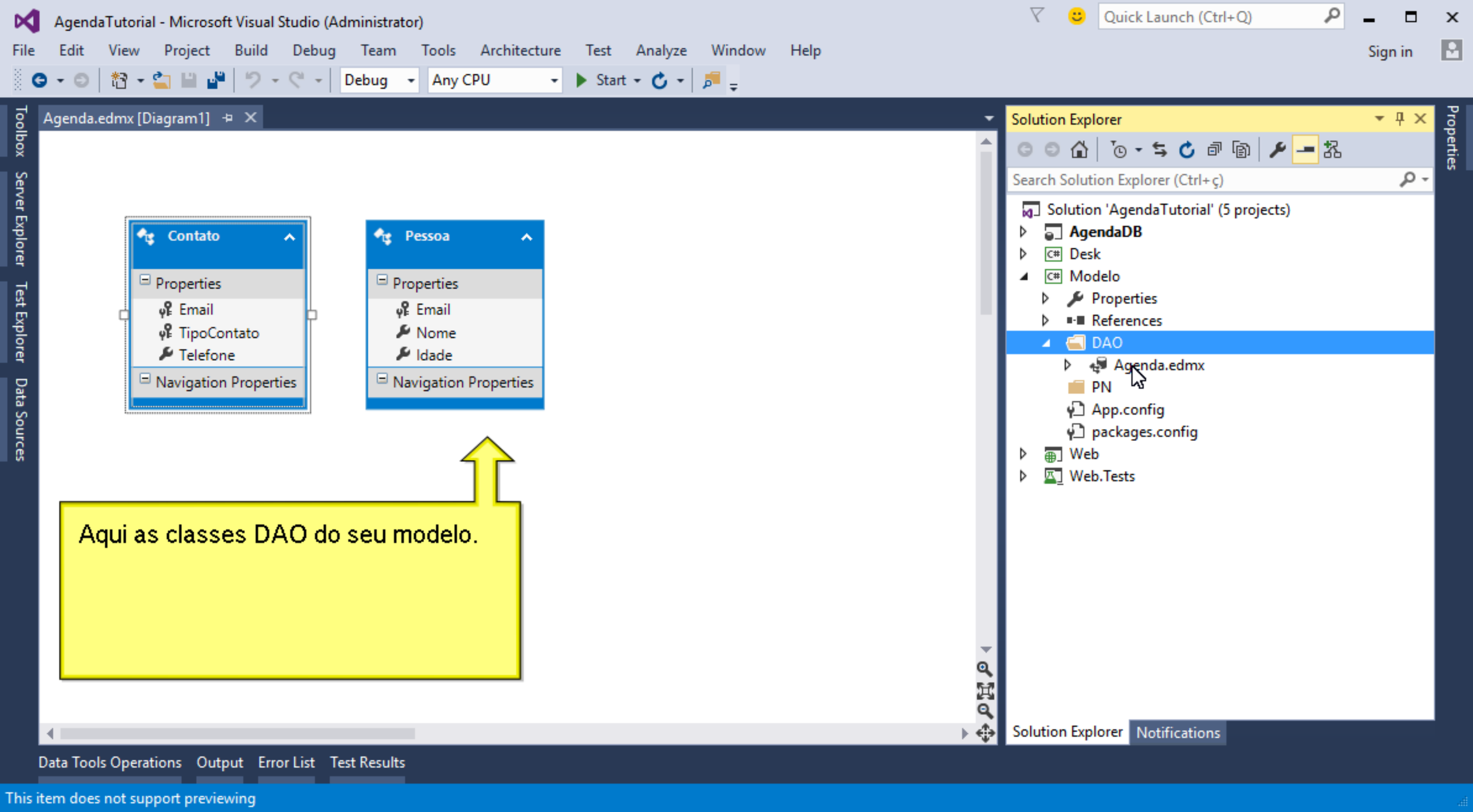
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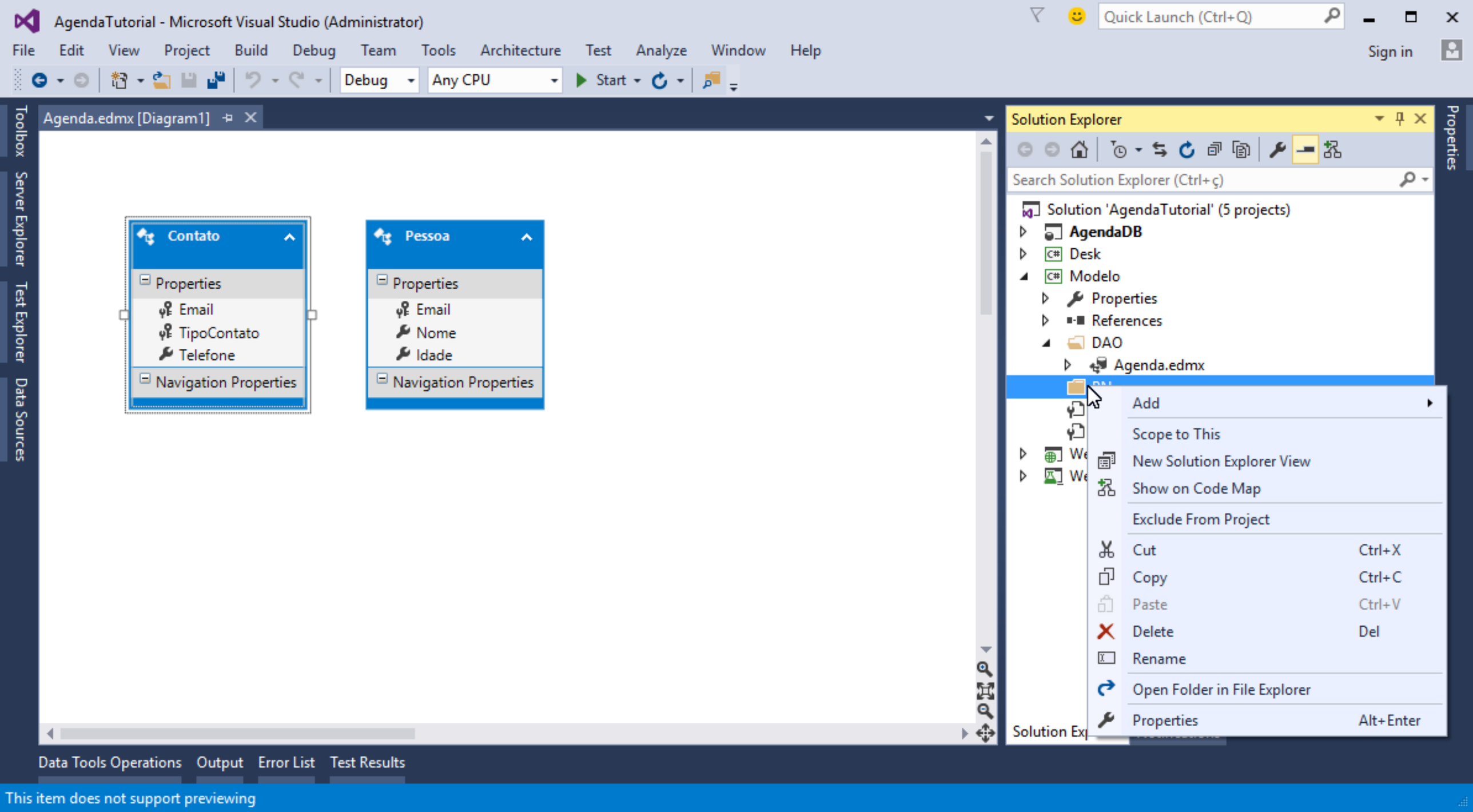
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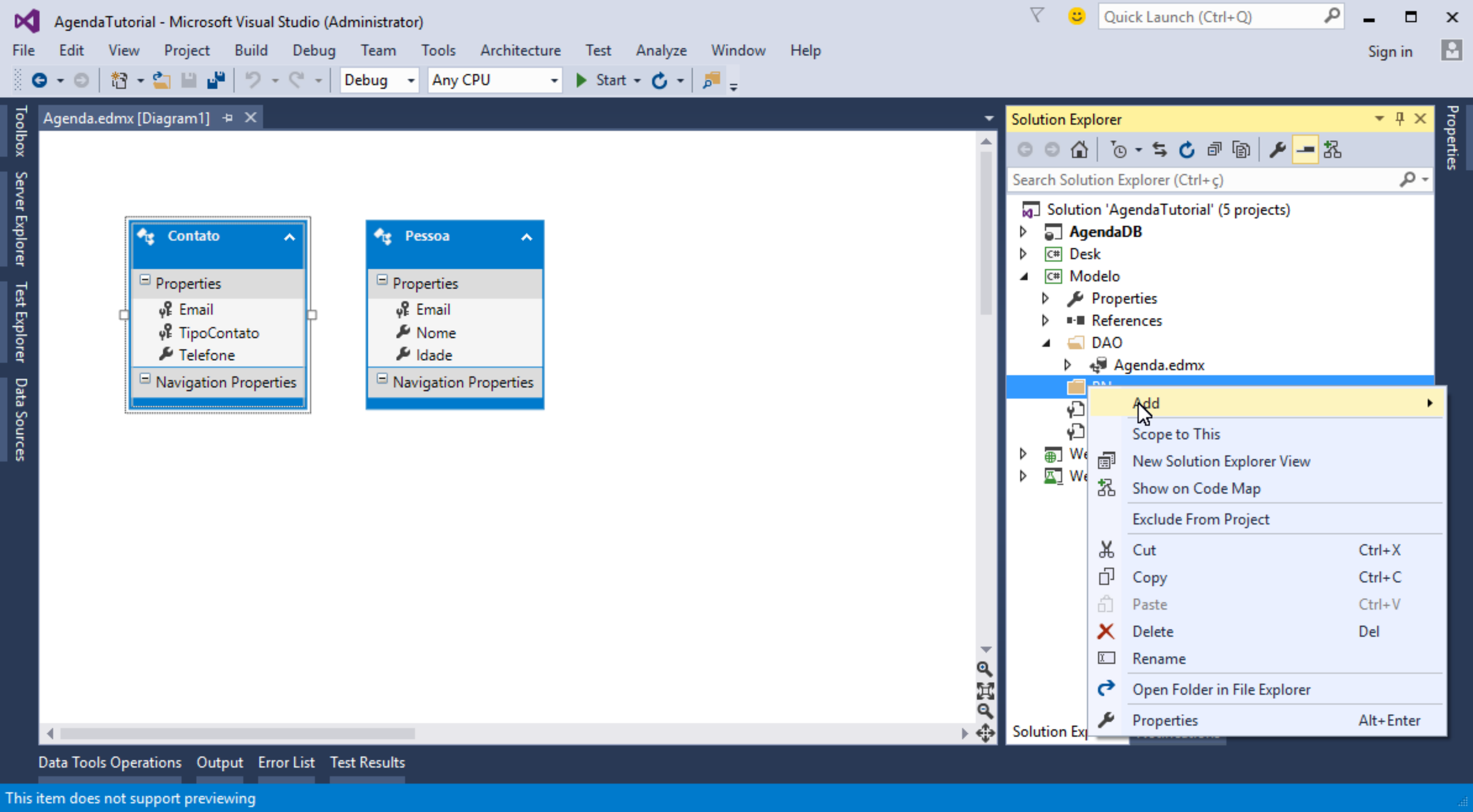
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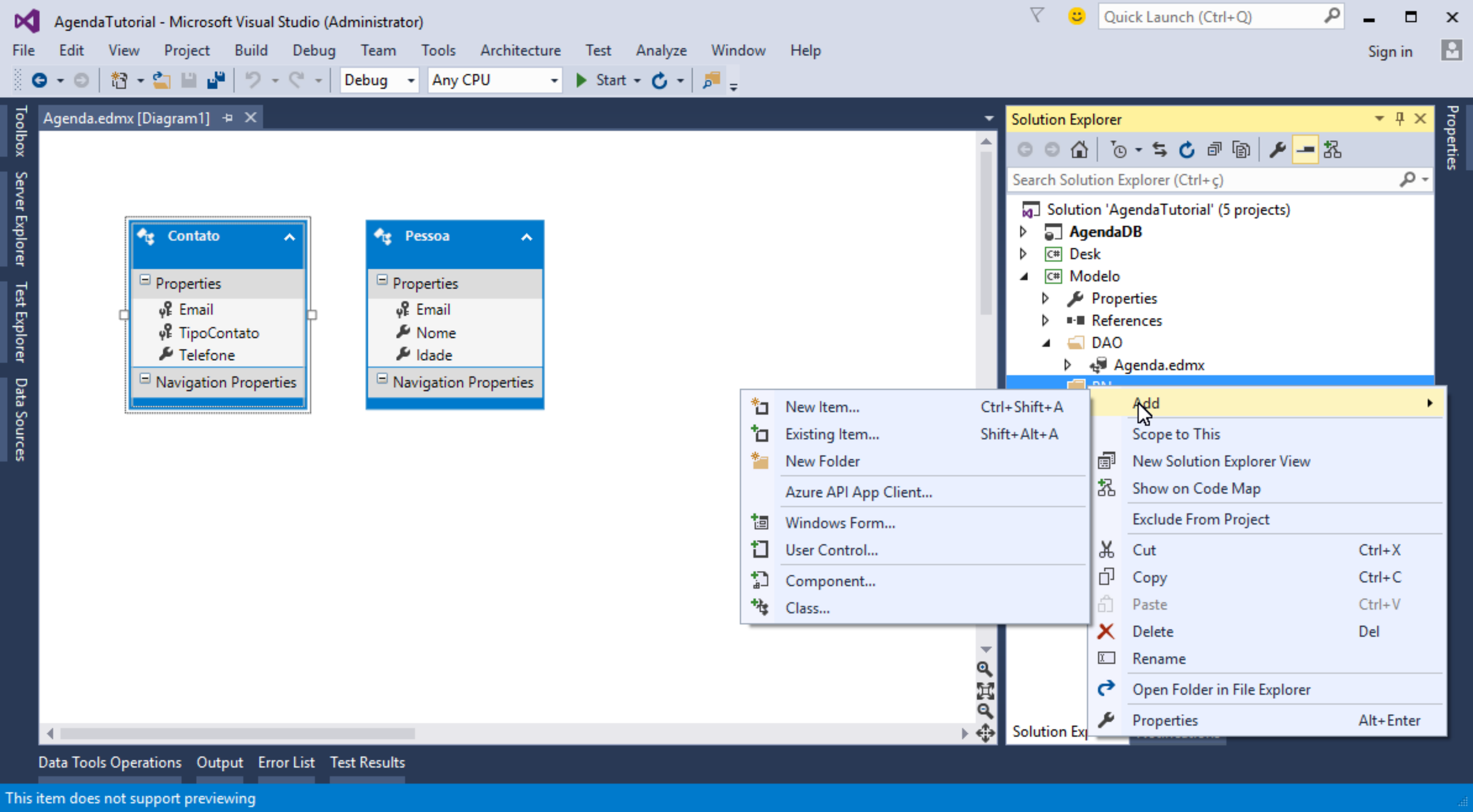
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Windows Form...
User Control...
Component...
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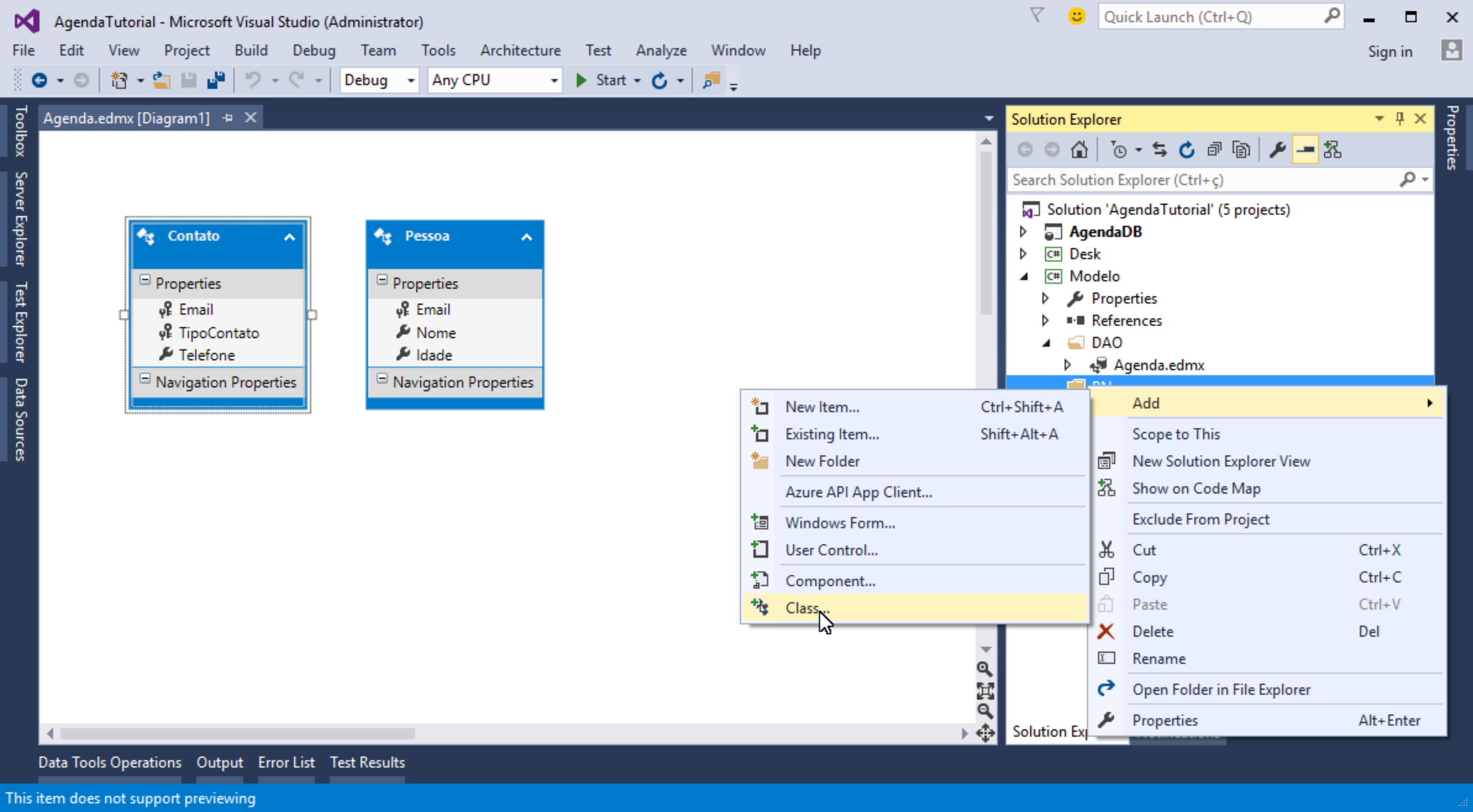
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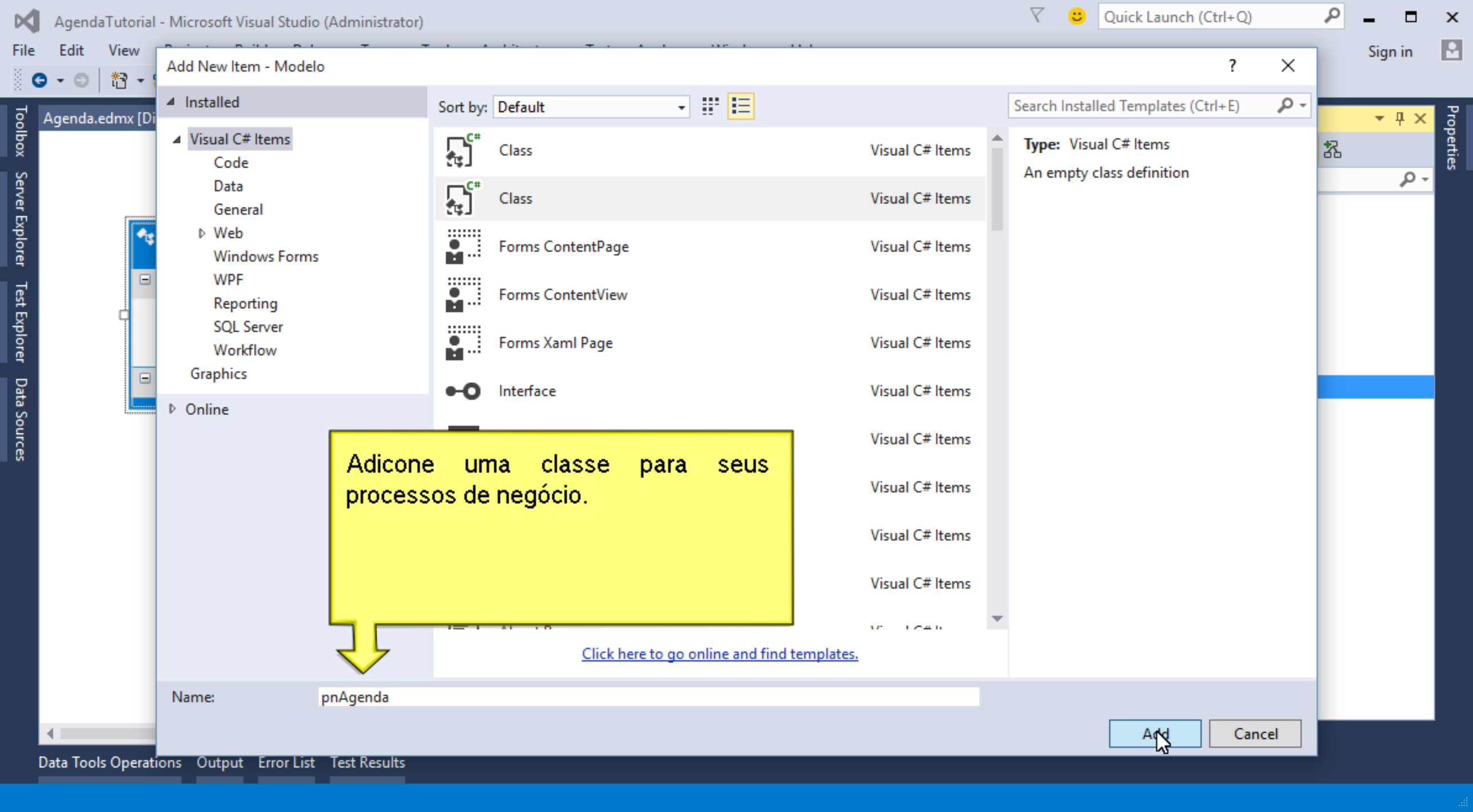
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WPF
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SQL Server
Workflow
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Forms ContentPage Visual C# Items
Forms ContentView Visual C# Items
Forms Xaml Page Visual C# Items
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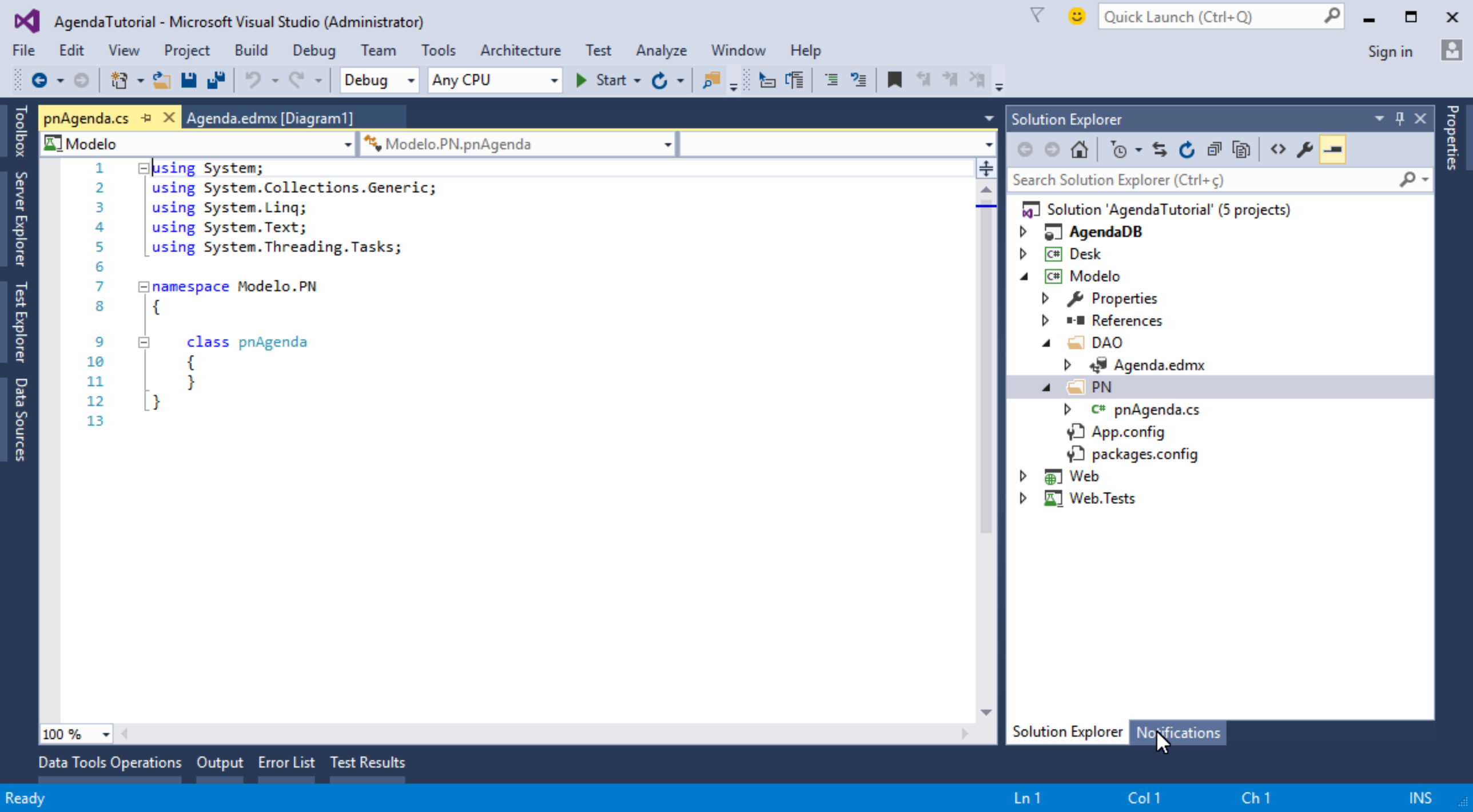
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Modelo
Modelo.PN.pnAgenda
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Modelo.PN
{
class pnAgenda
{
}
}
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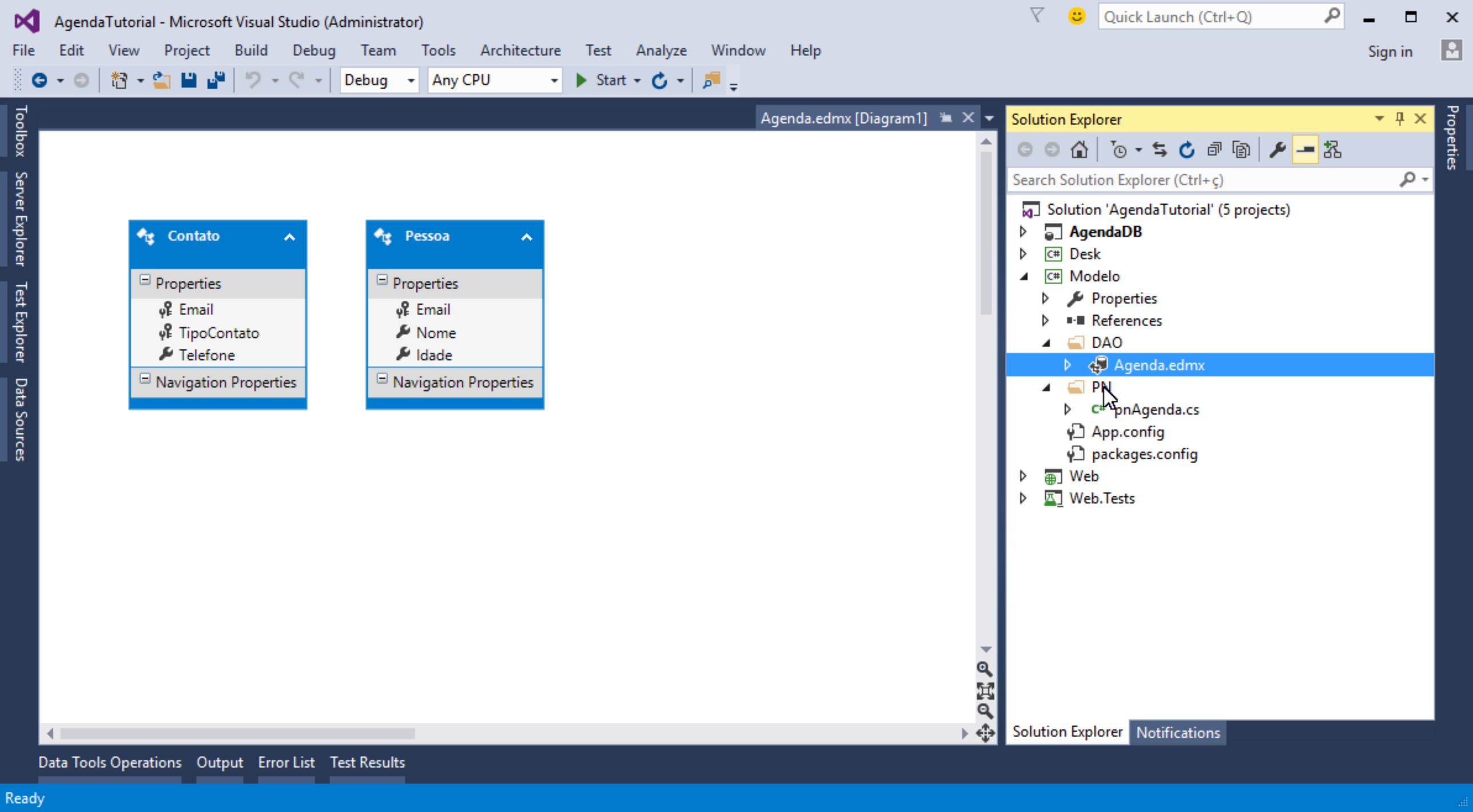
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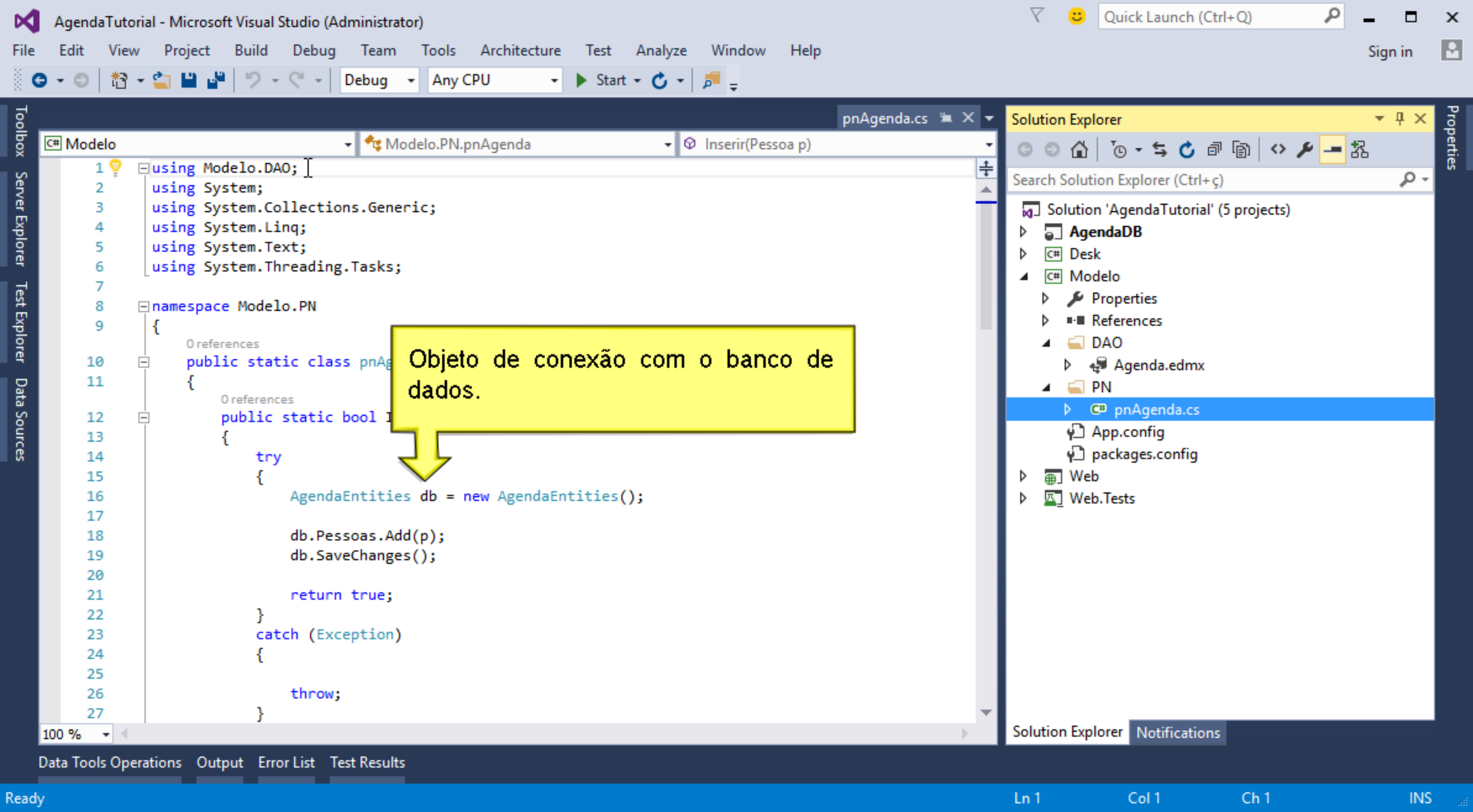
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Modelo
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Inserir(Pessoa p)
using Modelo.DAO;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Modelo.PN
{
0 references
public static class pnAg
{
0 references
public static bool I
{
try
{
AgendaEntities db = new AgendaEntities();
db.Pessoas.Add(p);
db.SaveChanges();
return true;
}
catch (Exception)
{
throw;
}
Objeto de conexão com o banco de dados.
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pnAgenda.cs

Modelo | Modelo.PN.pnAgenda | Inserir(Pessoa p)

```
1   using Modelo.DAO;
2   using System;
3   using System.Collections.Generic;
4   using System.Linq;
5   using System.Text;
6   using System.Threading.Tasks;
7
8   namespace Modelo.PN
9   {
        0 references
10      public static class pnAgenda
11      {
            0 references
12          public static bool Inserir(Pessoa p)
13          {
14              try
15              {
16                  AgendaEntities db = new AgendaEntities();
17
18                  db.Pessoas.Add(p);
19                  db.SaveChanges();
20
21                  return true;
22              }
23              catch (Exception)
24              {
25
26                  throw;
27              }
```

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Solution Explorer

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pnAgenda.cs

Modelo | Modelo.PN.pnAgenda | Inserir(Pessoa p)

```
1   using Modelo.DAO;
2   using System;
3   using System.Collections.Generic;
4   using System.Linq;
5   using System.Text;
6   using System.Threading.Tasks;
7
8   namespace Modelo.PN
9   {
        0 references
10      public static class pnAgenda
11      {
            0 references
12          public static bool Inserir(Pessoa p)
13          {
14              try
15              {
16                  AgendaEntities db = new AgendaEntities();
17
18                  db.Pessoas.Add(p);
19                  db.SaveChanges();
20
21                  return true;
22              }
23              catch (Exception)
24              {
25
26                  throw;
27              }
```

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pnAgenda.cs

Modelo | Modelo.PN.pnAgenda | Inserir(Pessoa p)

```
1   using Modelo.DAO;
2   using System;
3   using System.Collections.Generic;
4   using System.Linq;
5   using System.Text;
6   using System.Threading.Tasks;
7
8   namespace Modelo.PN
9   {
        0 references
10      public static class pnAgenda
11      {
            0 references
12          public static bool Inserir(Pessoa p)
13          {
14              try
15              {
16                  AgendaEntities db = new AgendaEntities();
17
18                  db.Pessoas.Add(p);
19                  db.SaveChanges();
20
21                  return true;
22              }
23              catch (Exception)
24              {
25
26                  throw;
27              }
```

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  - Modelo
    - Properties
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      - pnAgenda.cs
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  - Web.Tests

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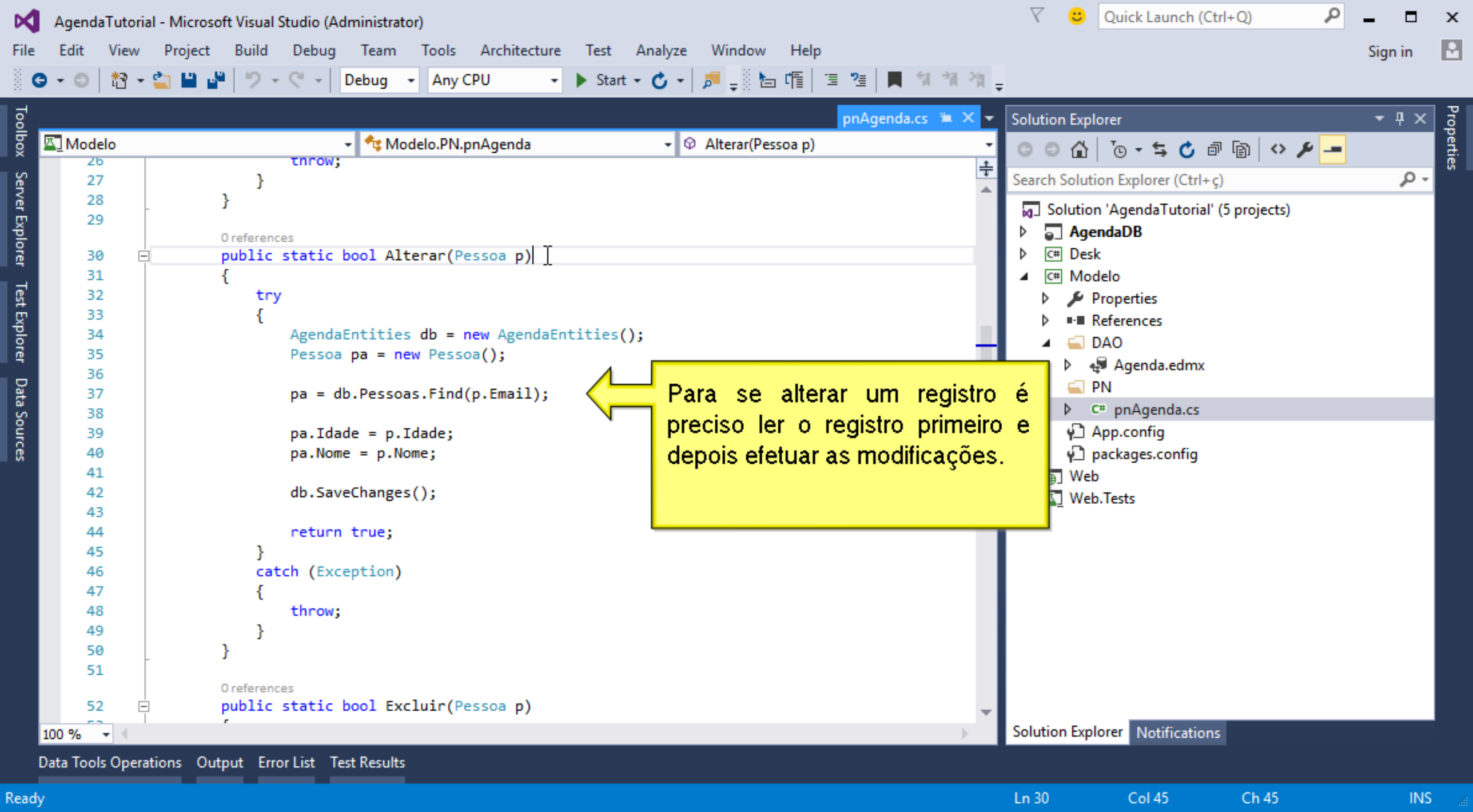
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Modelo.PN.pnAgenda
Alterar(Pessoa p)
throw;
}
}
0 references
public static bool Alterar(Pessoa p)
{
try
{
AgendaEntities db = new AgendaEntities();
Pessoa pa = new Pessoa();
pa = db.Pessoas.Find(p.Email);
pa.Idade = p.Idade;
pa.Nome = p.Nome;
db.SaveChanges();
return true;
}
catch (Exception)
{
throw;
}
}
0 references
public static bool Excluir(Pessoa p)
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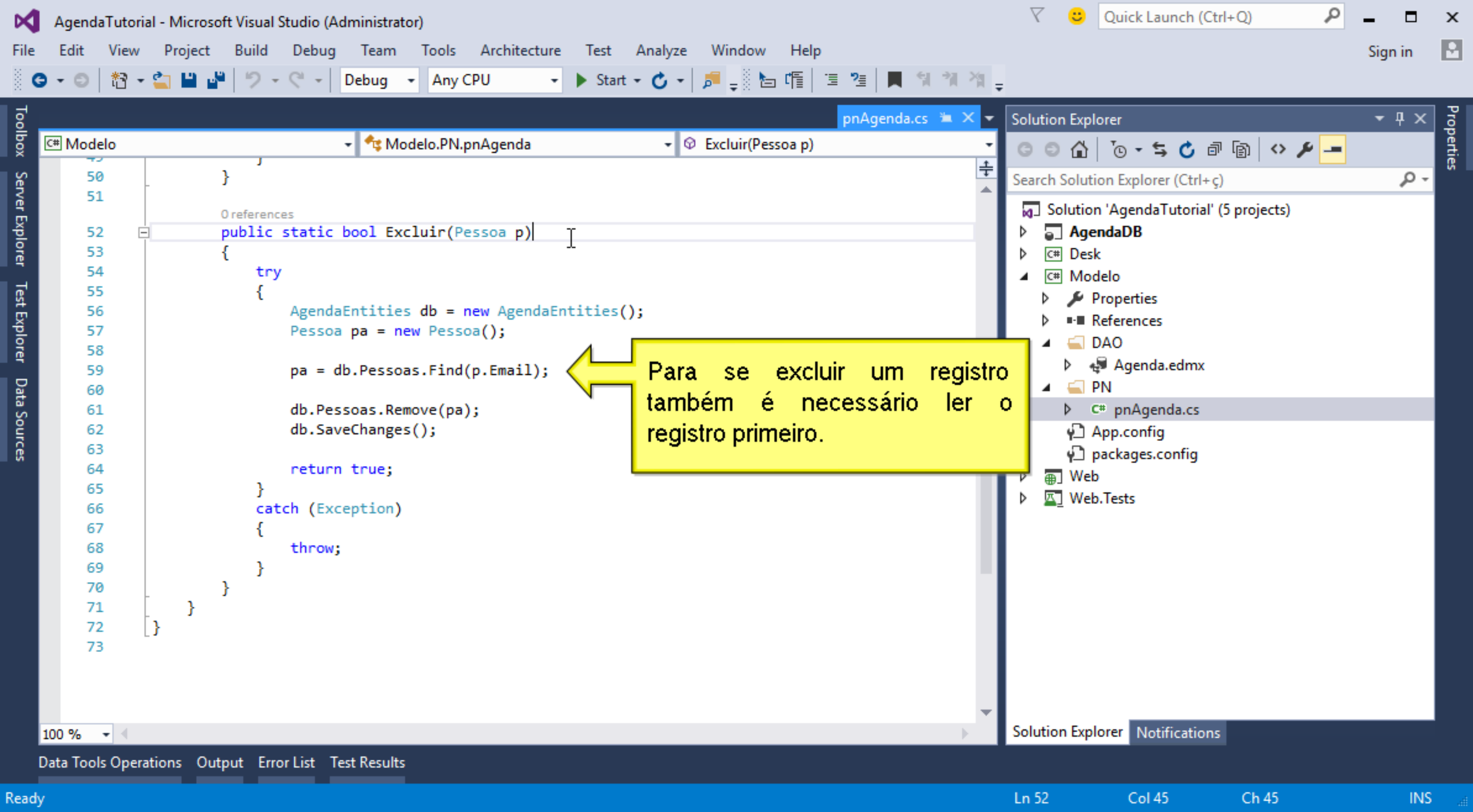
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Modelo
Modelo.PN.pnAgenda
Excluir(Pessoa p)
50 }
51
0 references
52 public static bool Excluir(Pessoa p)
53 {
54 try
55 {
56 AgendaEntities db = new AgendaEntities();
57 Pessoa pa = new Pessoa();
58
59 pa = db.Pessoas.Find(p.Email);
60
61 db.Pessoas.Remove(pa);
62 db.SaveChanges();
63
64 return true;
65 }
66 catch (Exception)
67 {
68 throw;
69 }
70 }
71 }
72 }
73
Para se excluir um registro também é necessário ler o registro primeiro.
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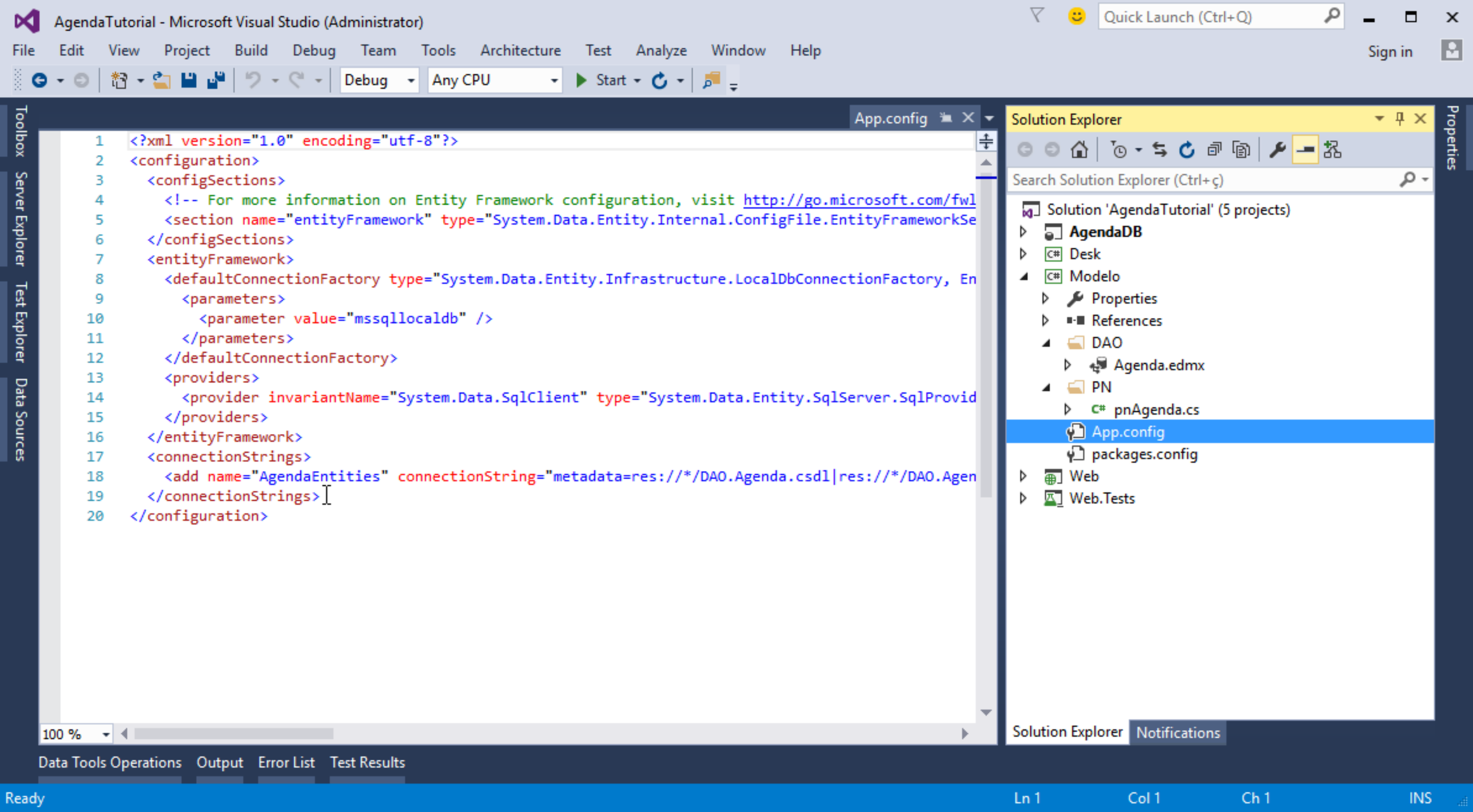
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Data Sources
App.config
1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3 <configSections>
4 <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwl
5 <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSe
6 </configSections>
7 <entityFramework>
8 <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, En
9 <parameters>
10 <parameter value="mssqllocaldb" />
11 </parameters>
12 </defaultConnectionFactory>
13 <providers>
14 <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProvid
15 </providers>
16 </entityFramework>
17 <connectionStrings>
18 <add name="AgendaEntities" connectionString="metadata=res://*/DAO.Agenda.csdl|res://*/DAO.Agen
19 </connectionStrings>
20 </configuration>
100 %
Solution Explorer
Search Solution Explorer (Ctrl+ç)
Solution 'AgendaTutorial' (5 projects)
AgendaDB
Desk
Modelo
Properties
References
DAO
Agenda.edmx
PN
pnAgenda.cs
App.config
packages.config
Web
Web.Tests
Solution Explorer
Notifications
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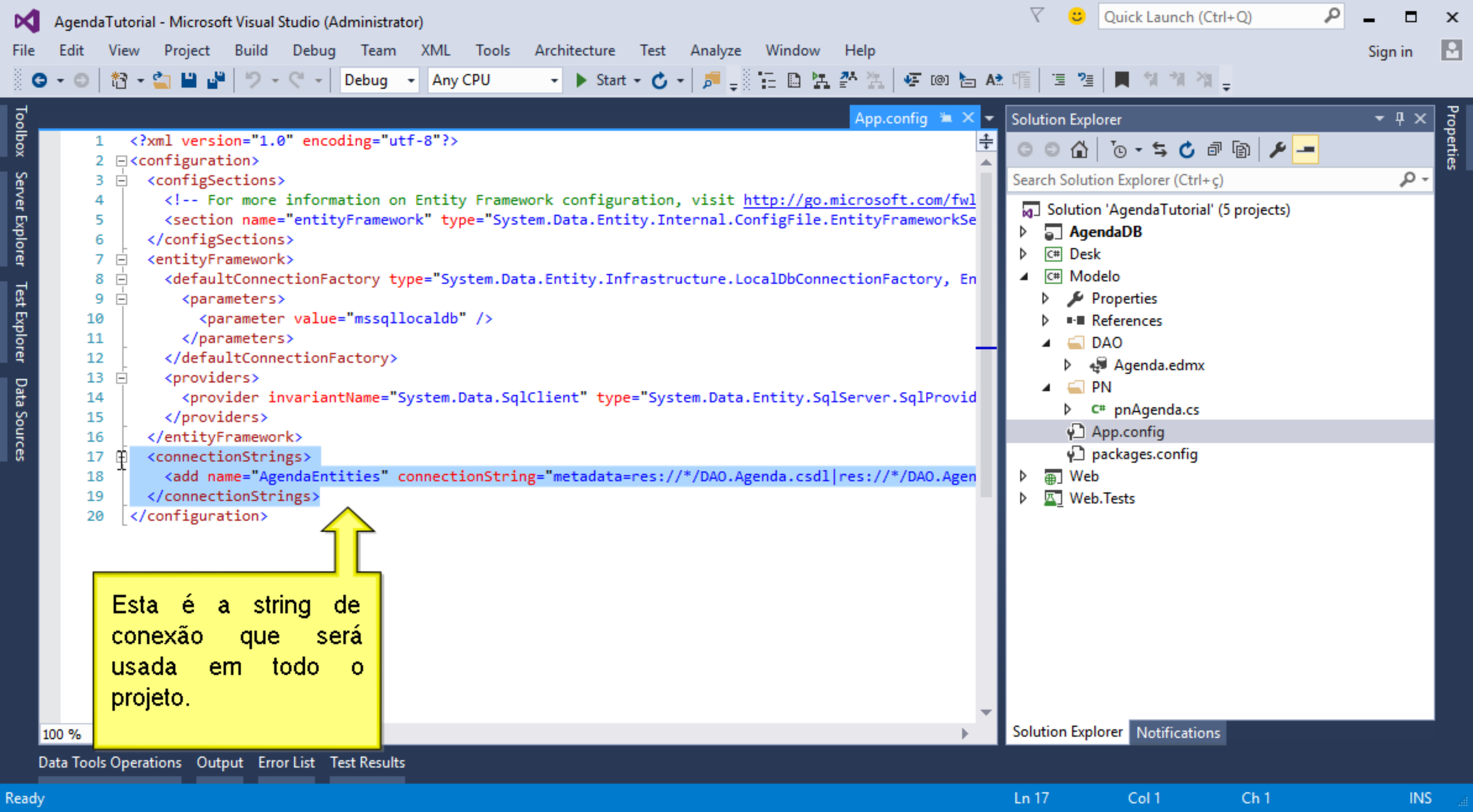
Data Tools Operations
Output
Error List
Test Results
Ready
Ln 1
Col 1
Ch 1
INS


AgendaTutorial - Microsoft Visual Studio (Administrator)
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team XML Tools Architecture Test Analyze Window Help
Sign in
Debug
Any CPU
Start
Toolbox
Server Explorer
Test Explorer
Data Sources
App.config
1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3 <configSections>
4 <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwl
5 <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSe
6 </configSections>
7 <entityFramework>
8 <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, En
9 <parameters>
10 <parameter value="mssqllocaldb" />
11 </parameters>
12 </defaultConnectionFactory>
13 <providers>
14 <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProvid
15 </providers>
16 </entityFramework>
17 <connectionStrings>
18 <add name="AgendaEntities" connectionString="metadata=res://*/DAO.Agenda.csdl|res://*/DAO.Agen
19 </connectionStrings>
20 </configuration>
Esta é a string de conexão que será usada em todo o projeto.
100 %
Solution Explorer
Search Solution Explorer (Ctrl+ç)
Solution 'AgendaTutorial' (5 projects)
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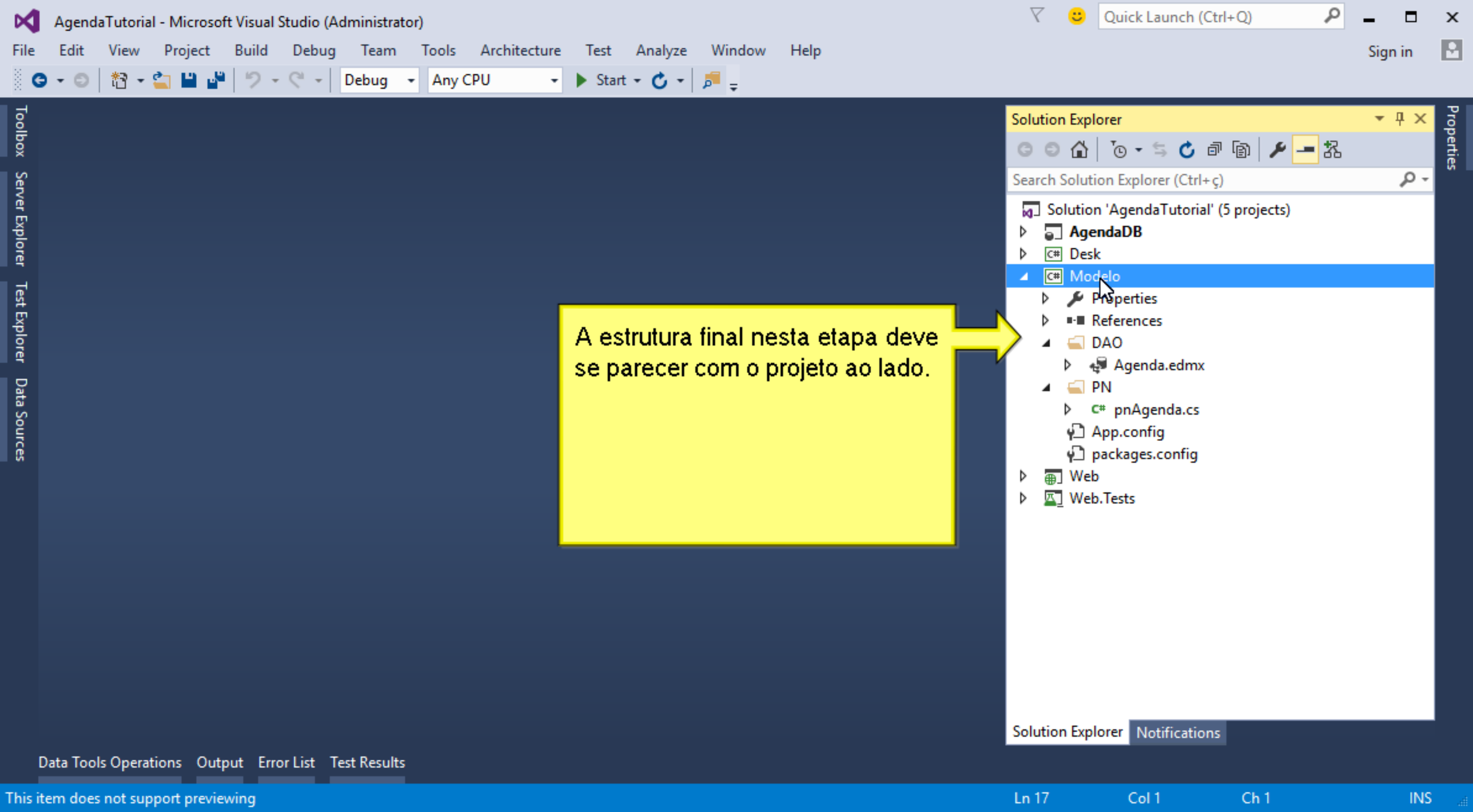
AgendaTutorial - Microsoft Visual Studio (Administrator)
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
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Server Explorer
Test Explorer
Data Sources
A estrutura final nesta etapa deve se parecer com o projeto ao lado.
Solution Explorer
Search Solution Explorer (Ctrl+ç)
Solution 'AgendaTutorial' (5 projects)
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pnAgenda.cs
App.config
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Web.Tests
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Error List
Test Results
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Ln 17
Col 1
Ch 1
INS