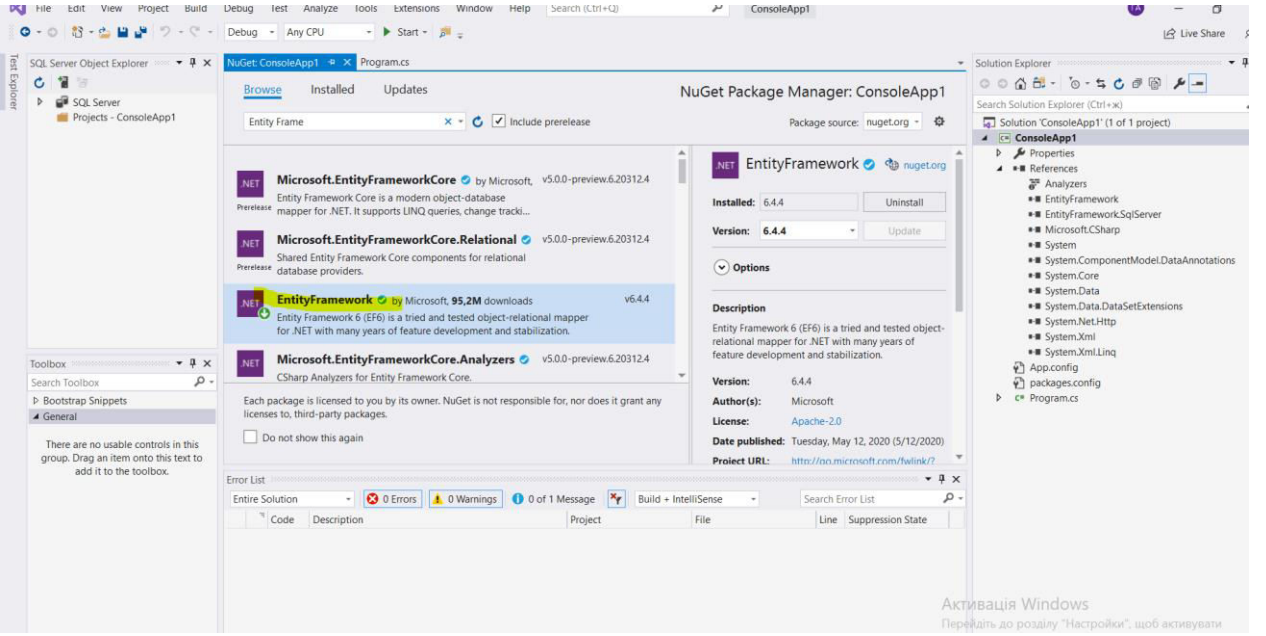
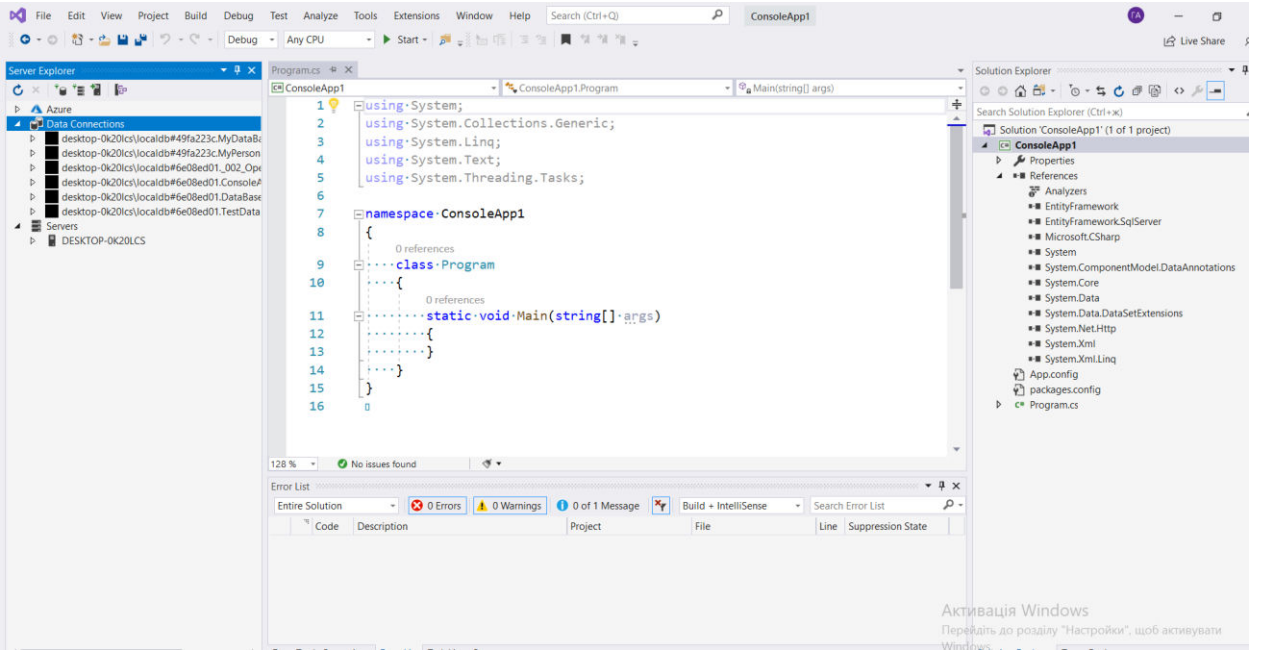
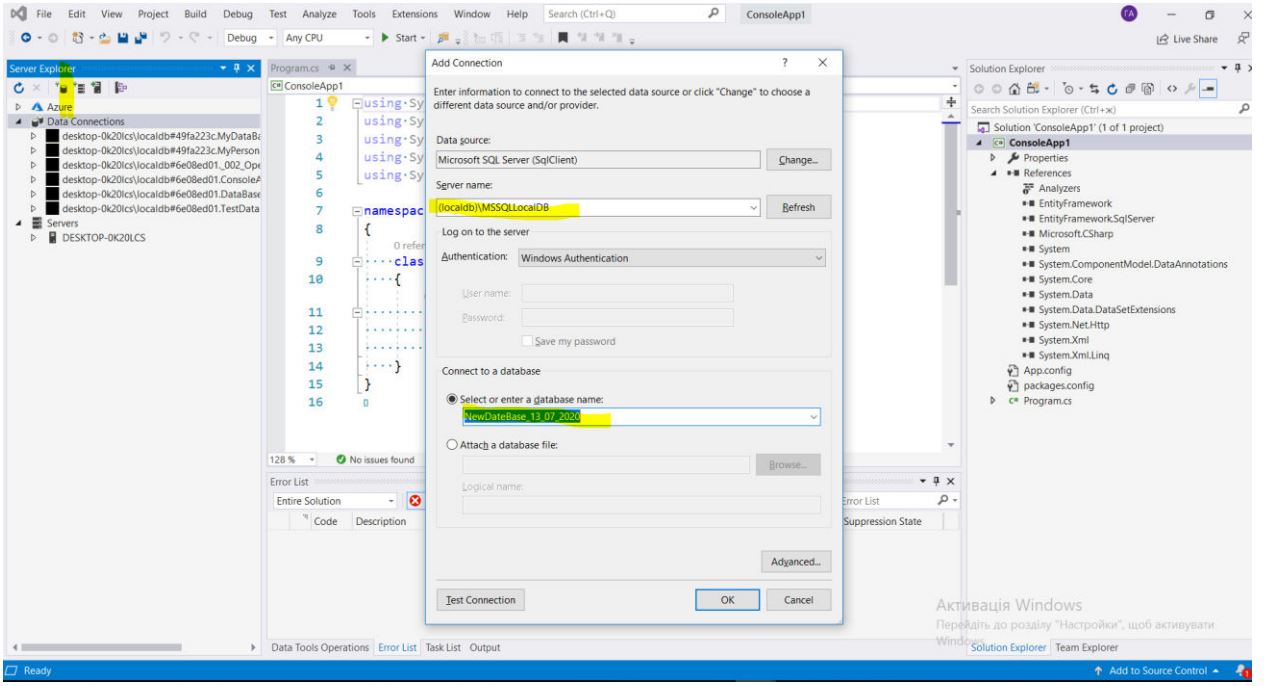
Подход DATA Base First

1) Пакет EntetiFramework

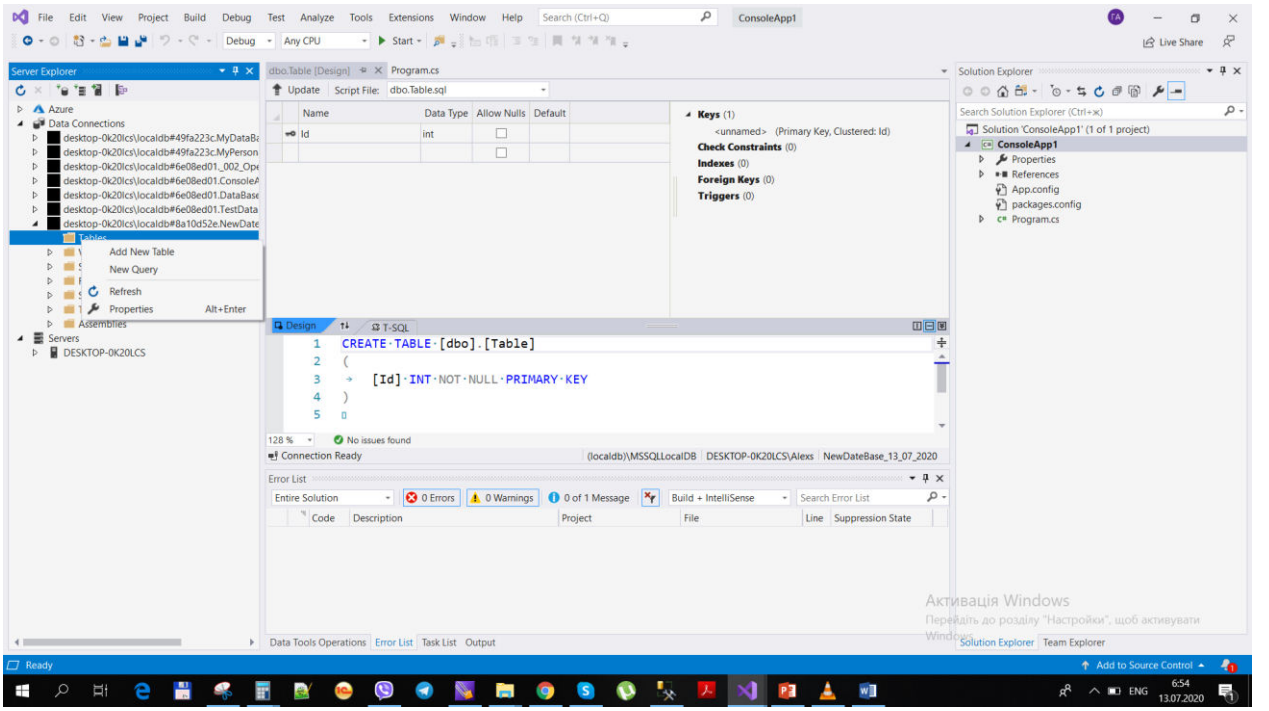


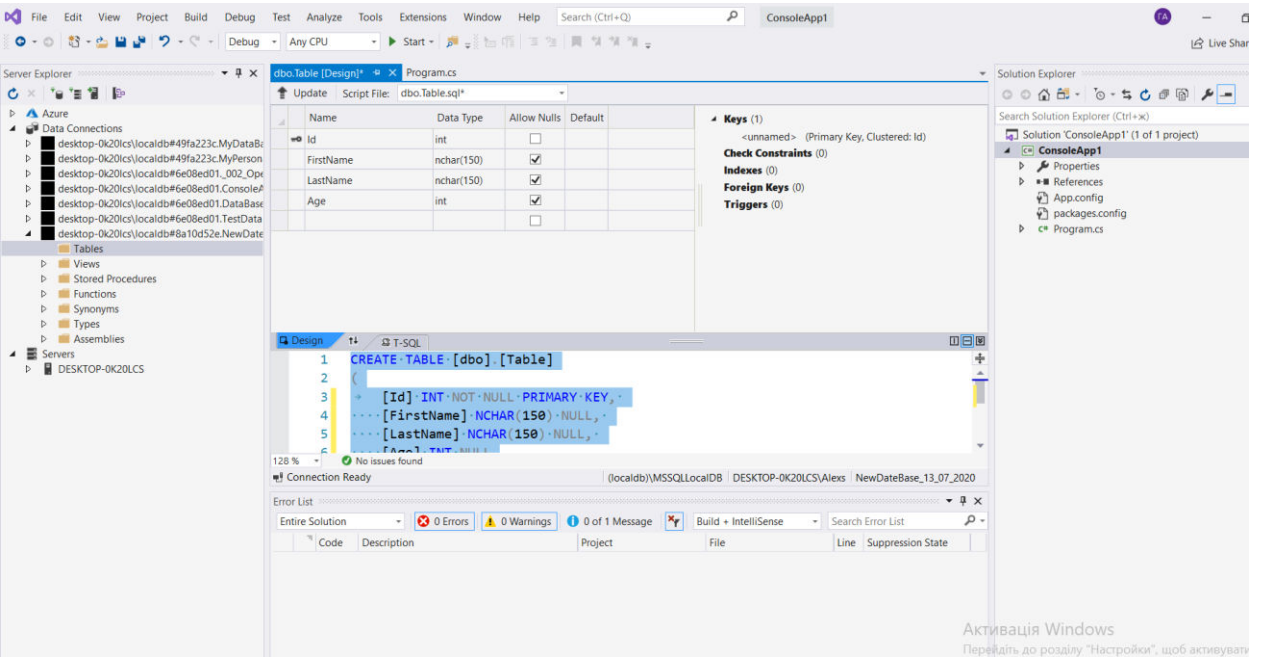
2) Создание базі данніх

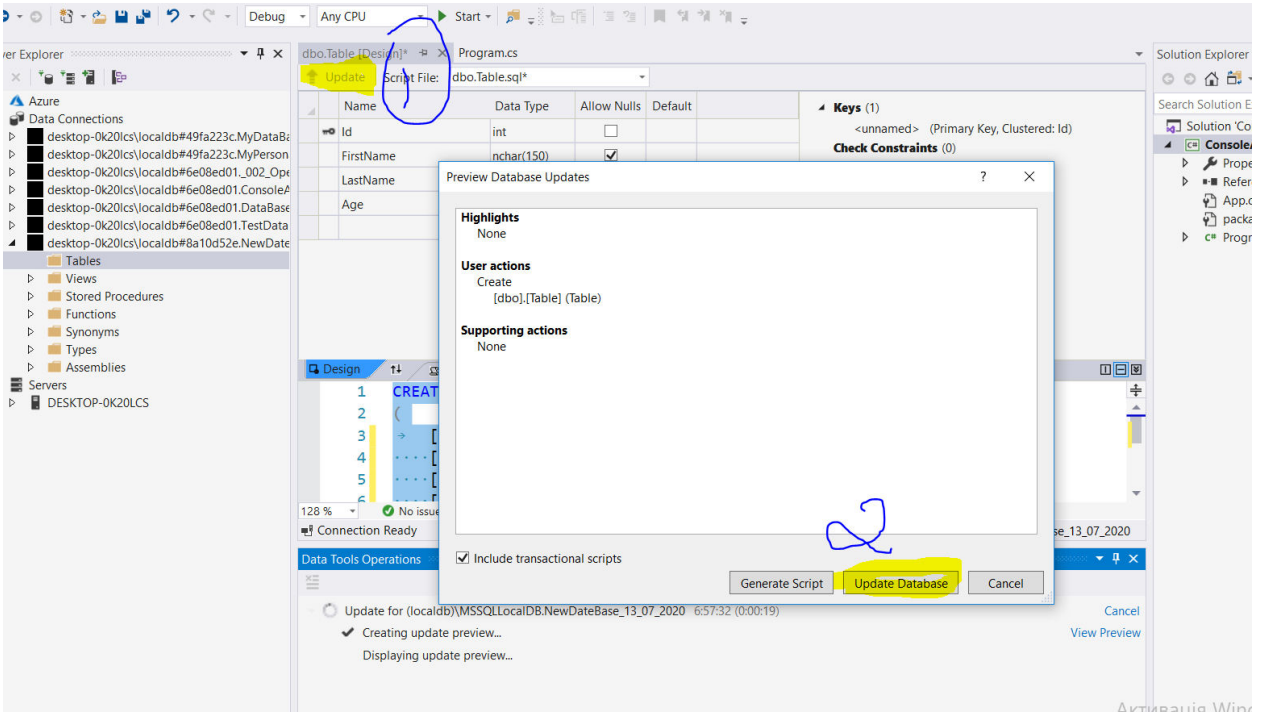


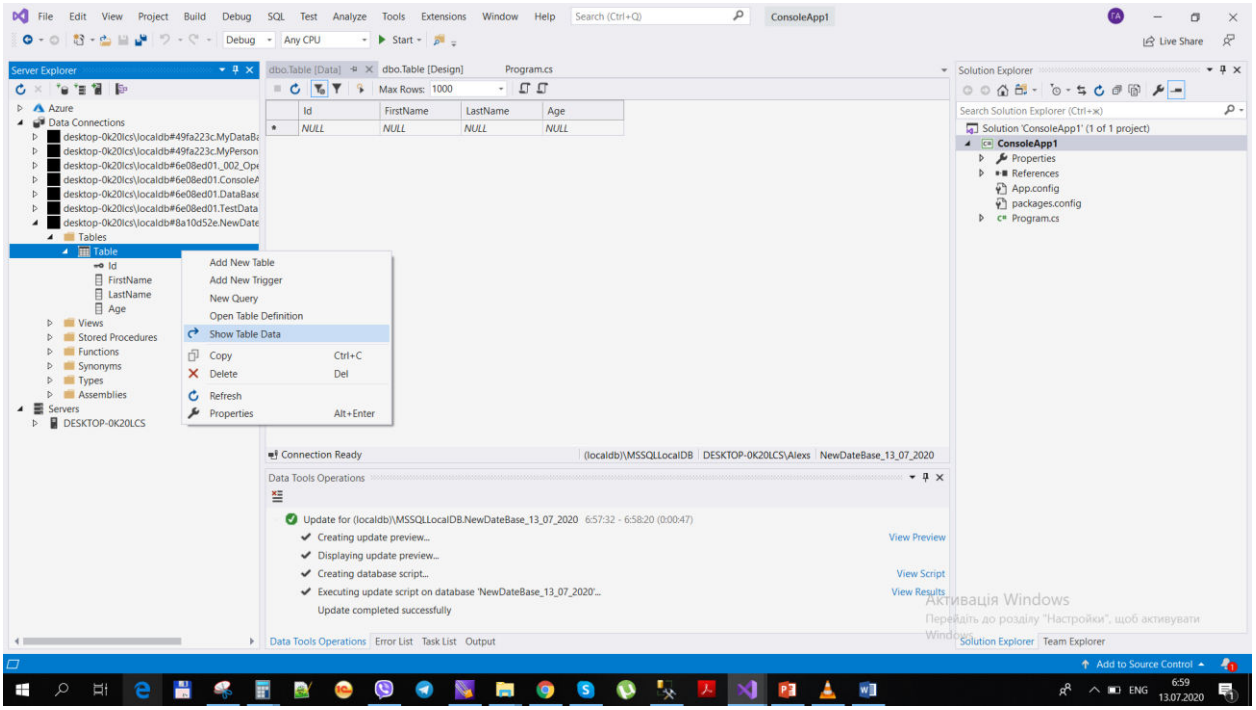


3) Добавленее таблицы

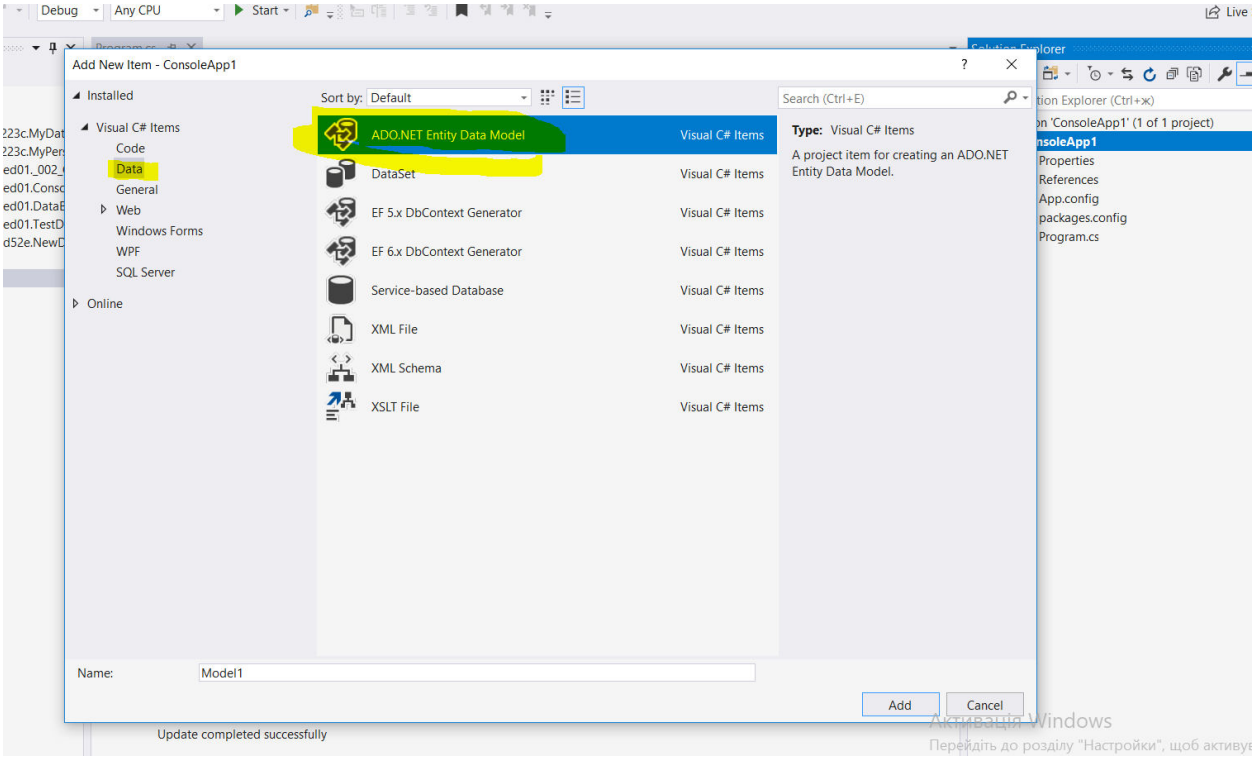


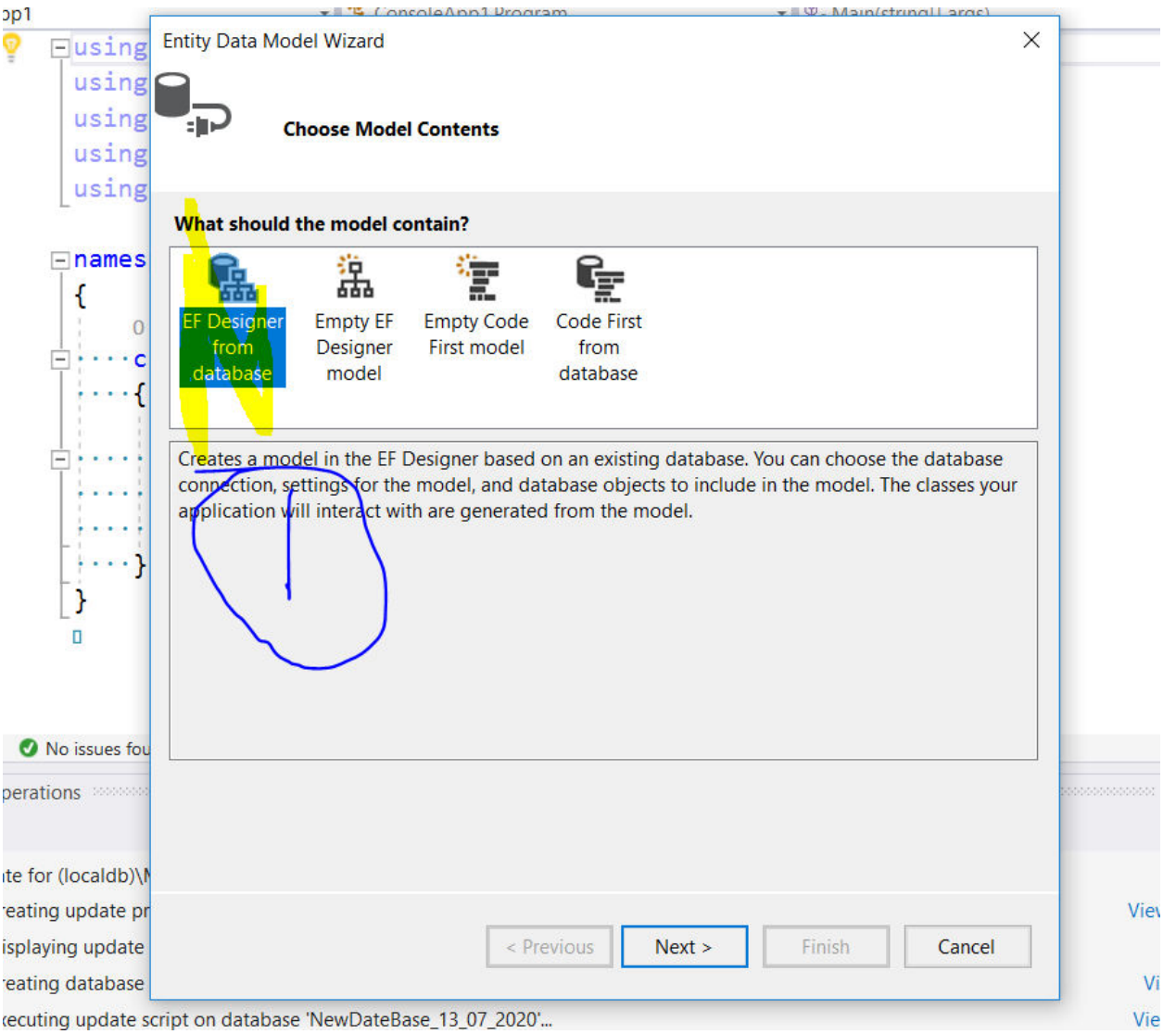

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help
ConsoleApp1
Server Explorer
Azure
Data Connections
Tables
Views
Stored Procedures
Functions
Synonyms
Types
Assemblies
Servers
DESKTOP-0K20LCS
dbo.Table [Design]*
Program.cs
Update
Script File: dbo.Table.sql*
Name
Data Type
Allow Nulls
Default
Id
int
FirstName
nchar(150)
LastName
nchar(150)
Age
int
Keys (1)
<unnamed> (Primary Key, Clustered: Id)
Check Constraints (0)
Indexes (0)
Foreign Keys (0)
Triggers (0)
Design
T-SQL
CREATE TABLE [dbo].[Table]
(
[Id] INT NOT NULL PRIMARY KEY,
[FirstName] NCHAR(150) NULL,
[LastName] NCHAR(150) NULL,
128 %
No issues found
Connection Ready
(localdb)\MSSQLLocalDB
DESKTOP-0K20LCS\Alexs
NewDateBase_13_07_2020
Error List
Entire Solution
0 Errors
0 Warnings
0 of 1 Message
Build + IntelliSense
Search Error List
Code
Description
Project
File
Line
Suppression State
Solution Explorer
Solution 'ConsoleApp1' (1 of 1 project)
ConsoleApp1
Properties
References
App.config
packages.config
Program.cs
Активація Windows


Debug
Any CPU
Start
Update
Script File: dbo.Table.sql*
Preview Database Updates
Highlights
None
User actions
Create
[dbo].[Table] (Table)
Supporting actions
None
Include transactional scripts
Generate Script
Update Database
Cancel
Data Tools Operations
Update for (localdb)\MSSQLLocalDB.NewDateBase_13_07_2020 6:57:32 (0:00:19)
Creating update preview...
Displaying update preview...
Cancel
View Preview

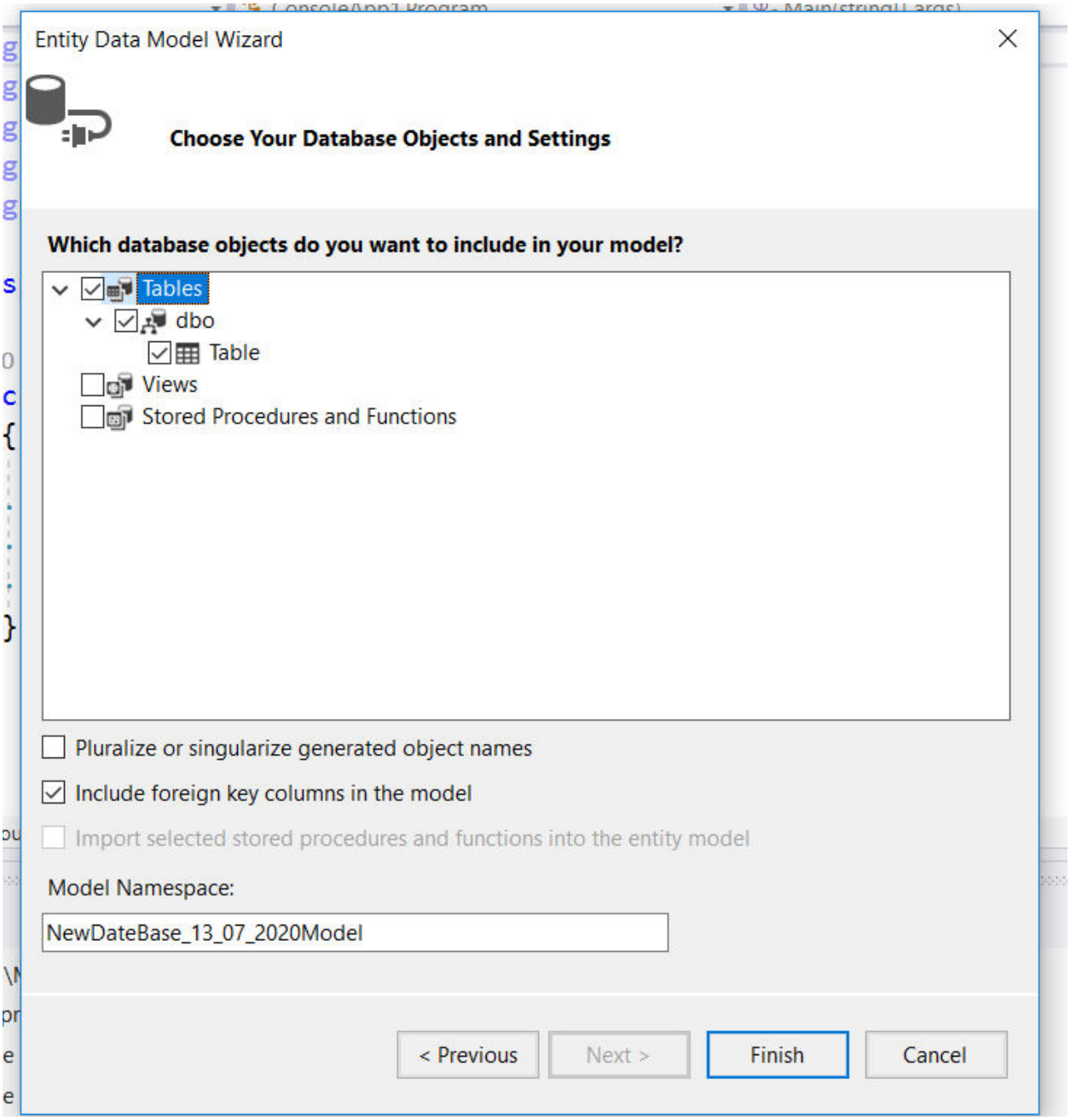

Add New Table
Add New Trigger
New Query
Open Table Definition
Show Table Data
Copy Ctrl+C
Delete Del
Refresh
Properties Alt+Enter
Update completed successfully

4

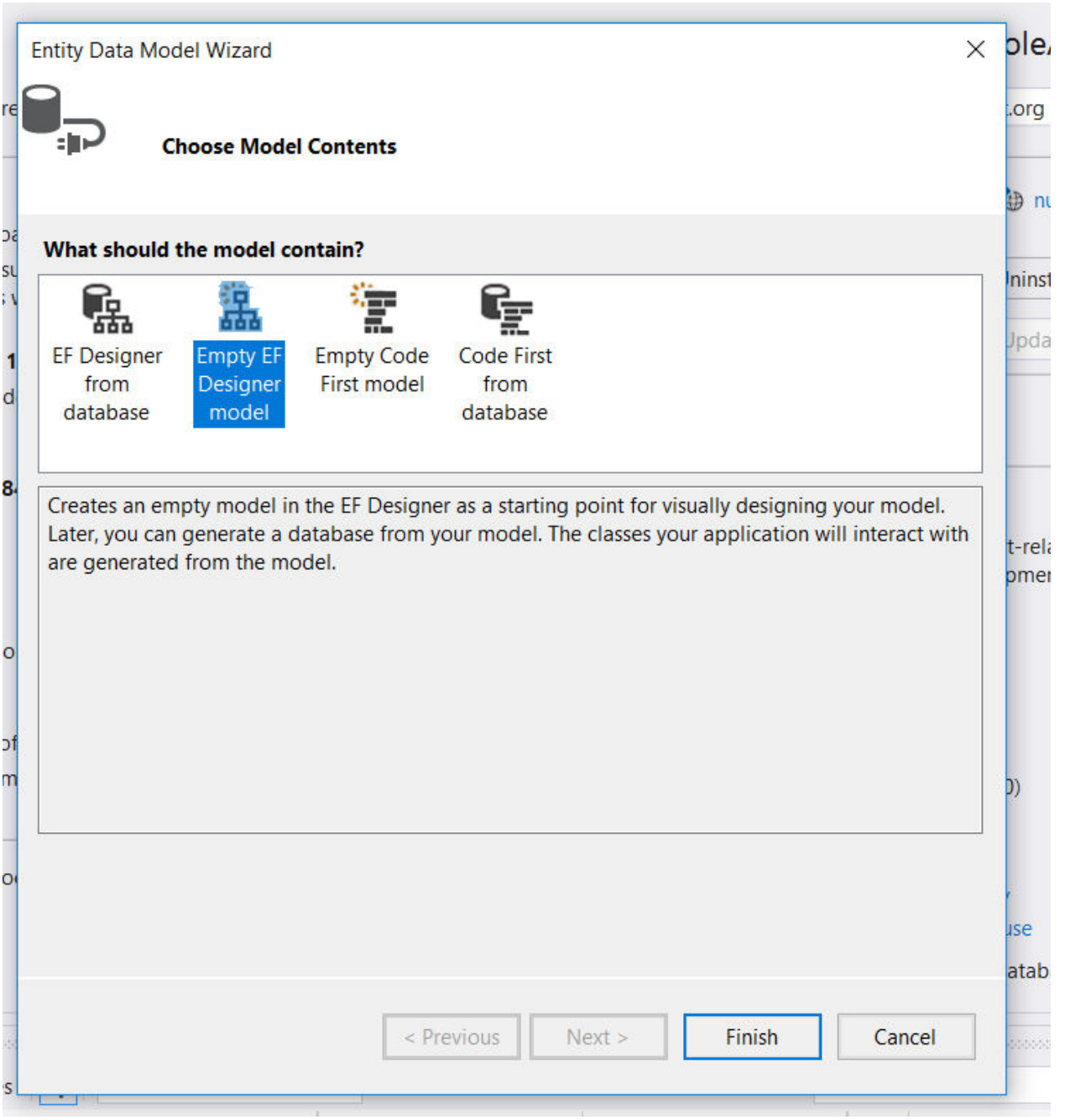

Add New Item - ConsoleApp1
Installed
Visual C# Items
Code
Data
General
Web
Windows Forms
WPF
SQL Server
Online
Sort by: Default
ADO.NET Entity Data Model
DataSet
EF 5.x DbContext Generator
EF 6.x DbContext Generator
Service-based Database
XML File
XML Schema
XSLT File
Type: Visual C# Items
A project item for creating an ADO.NET Entity Data Model.
Name: Model1
Add
Cancel
Update completed successfully

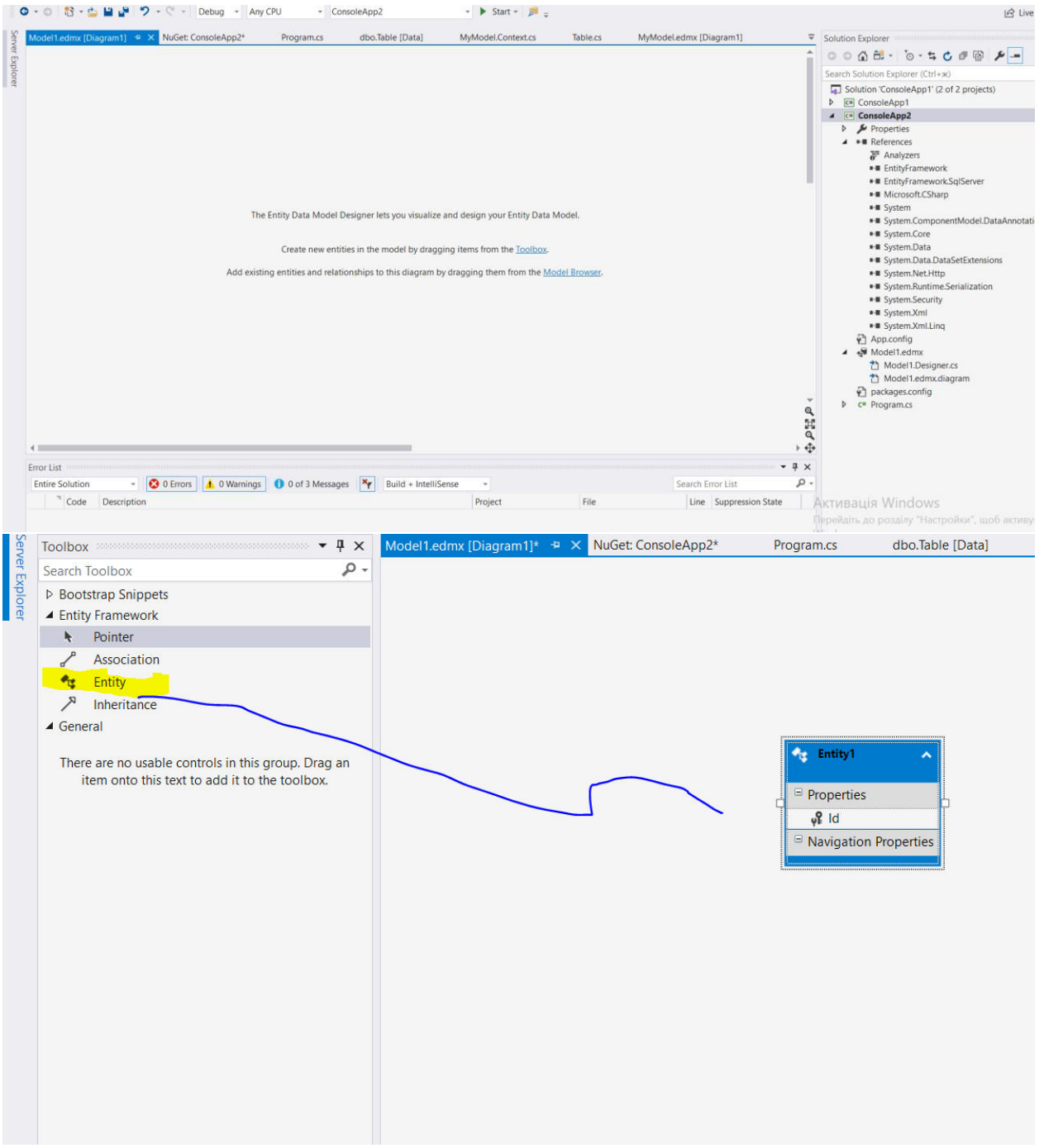

Entity Data Model Wizard
Choose Model Contents
What should the model contain?
EF Designer from database
Empty EF Designer model
Empty Code First model
Code First from database
Creates a model in the EF Designer based on an existing database. You can choose the database connection, settings for the model, and database objects to include in the model. The classes your application will interact with are generated from the model.
< Previous
Next >
Finish
Cancel

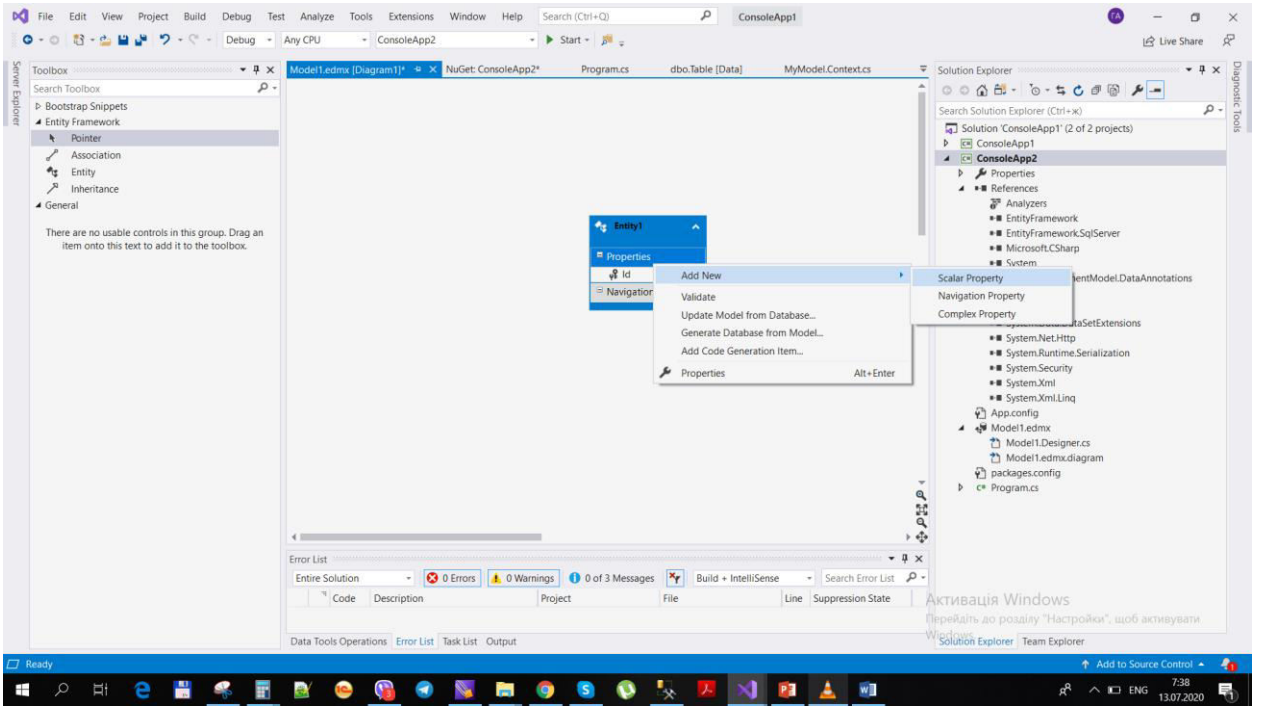
4)

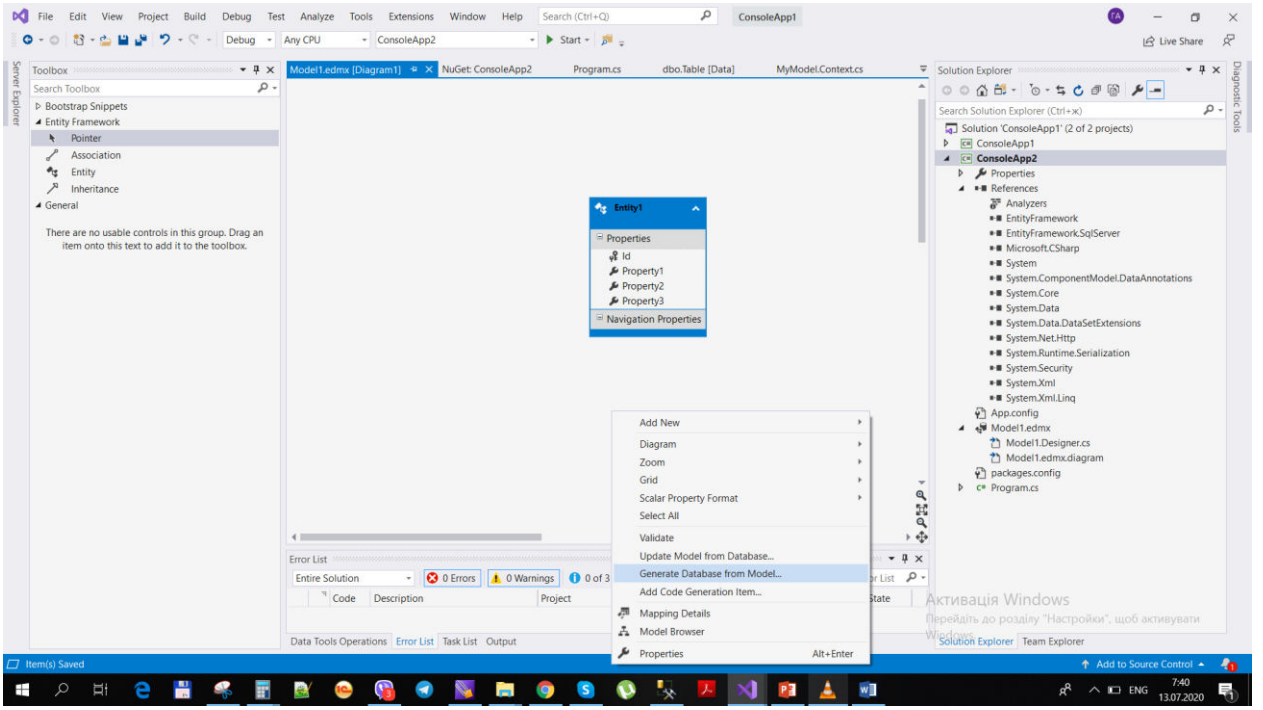

Entity Data Model Wizard
Choose Your Database Objects and Settings
Which database objects do you want to include in your model?
Tables
dbo
Table
Views
Stored Procedures and Functions
Pluralize or singularize generated object names
Include foreign key columns in the model
Import selected stored procedures and functions into the entity model
Model Namespace:
NewDateBase_13_07_2020Model
< Previous
Next >
Finish
Cancel

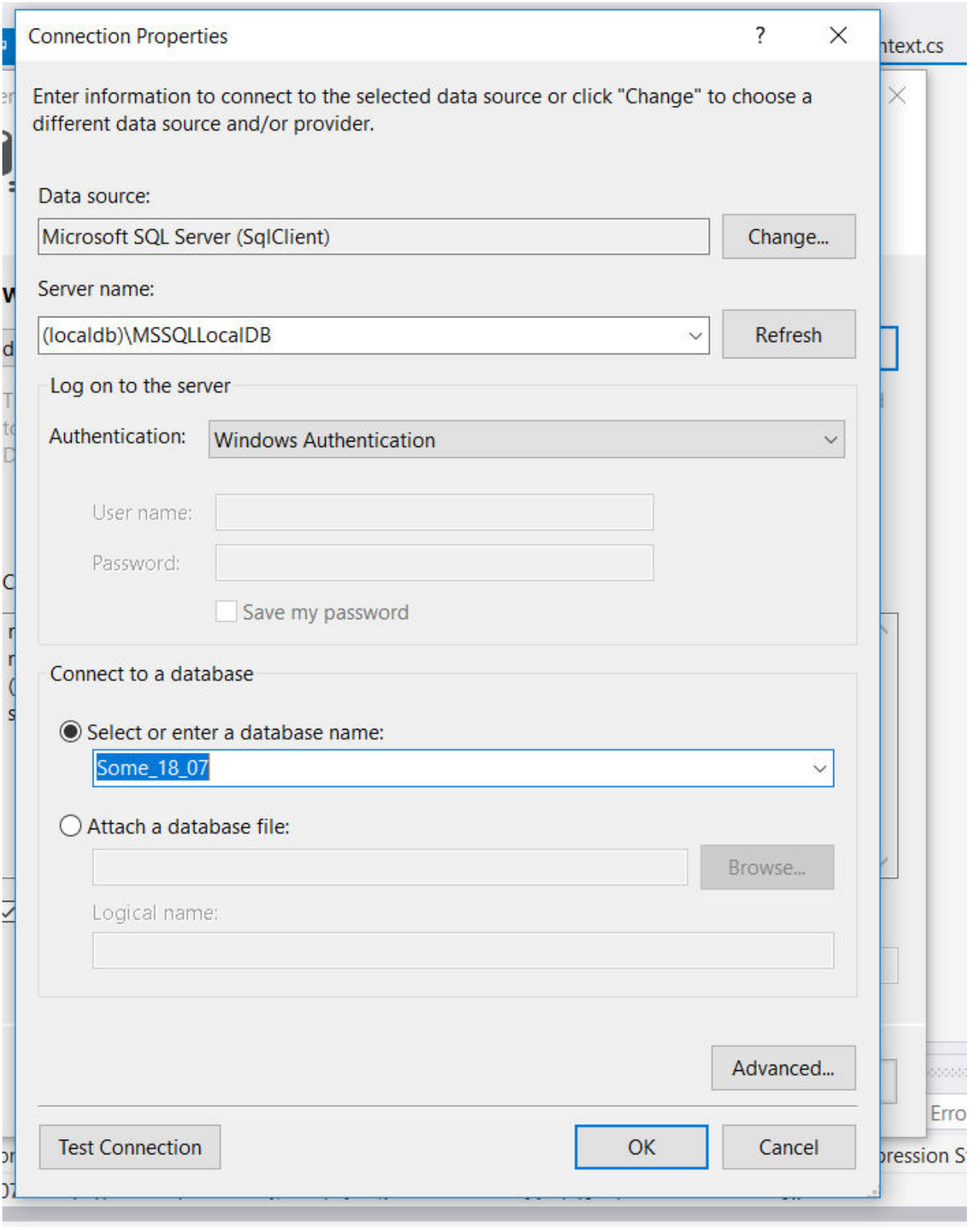
MODEL FIRST

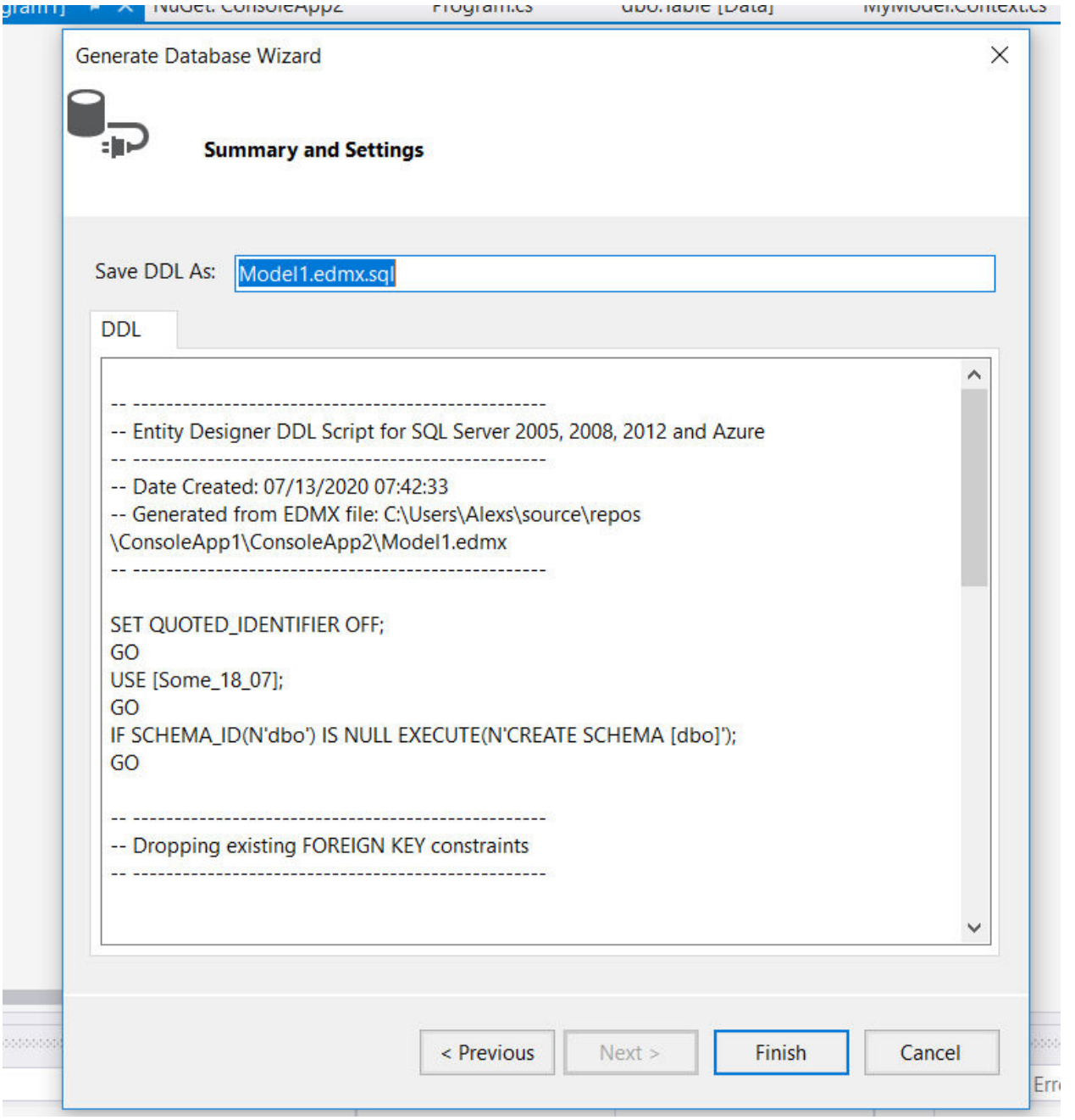

Entity Data Model Wizard
Choose Model Contents
What should the model contain?
EF Designer from database
Empty EF Designer model
Empty Code First model
Code First from database
Creates an empty model in the EF Designer as a starting point for visually designing your model. Later, you can generate a database from your model. The classes your application will interact with are generated from the model.
< Previous
Next >
Finish
Cancel

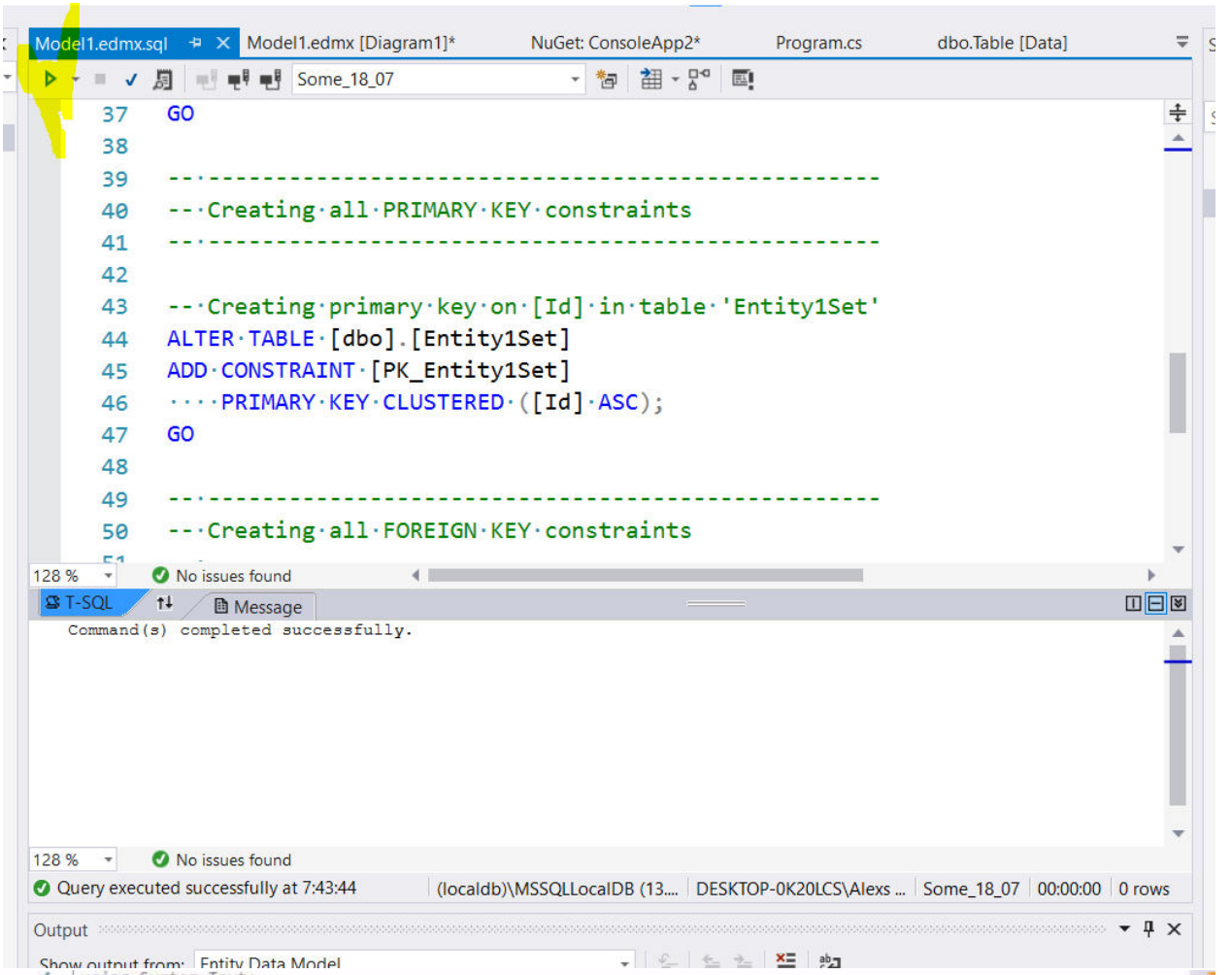

Model1.edmx [Diagram1]
NuGet: ConsoleApp2*
Program.cs
dbo.Table [Data]
MyModel.Context.cs
Table.cs
MyModel.edmx [Diagram1]
The Entity Data Model Designer lets you visualize and design your Entity Data Model.
Create new entities in the model by dragging items from the Toolbox.
Add existing entities and relationships to this diagram by dragging them from the Model Browser.
Solution Explorer
Error List
Toolbox
Search Toolbox
Bootstrap Snippets
Entity Framework
Pointer
Association
Entity
Inheritance
General
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.
Entity1
Properties
Id
Navigation Properties

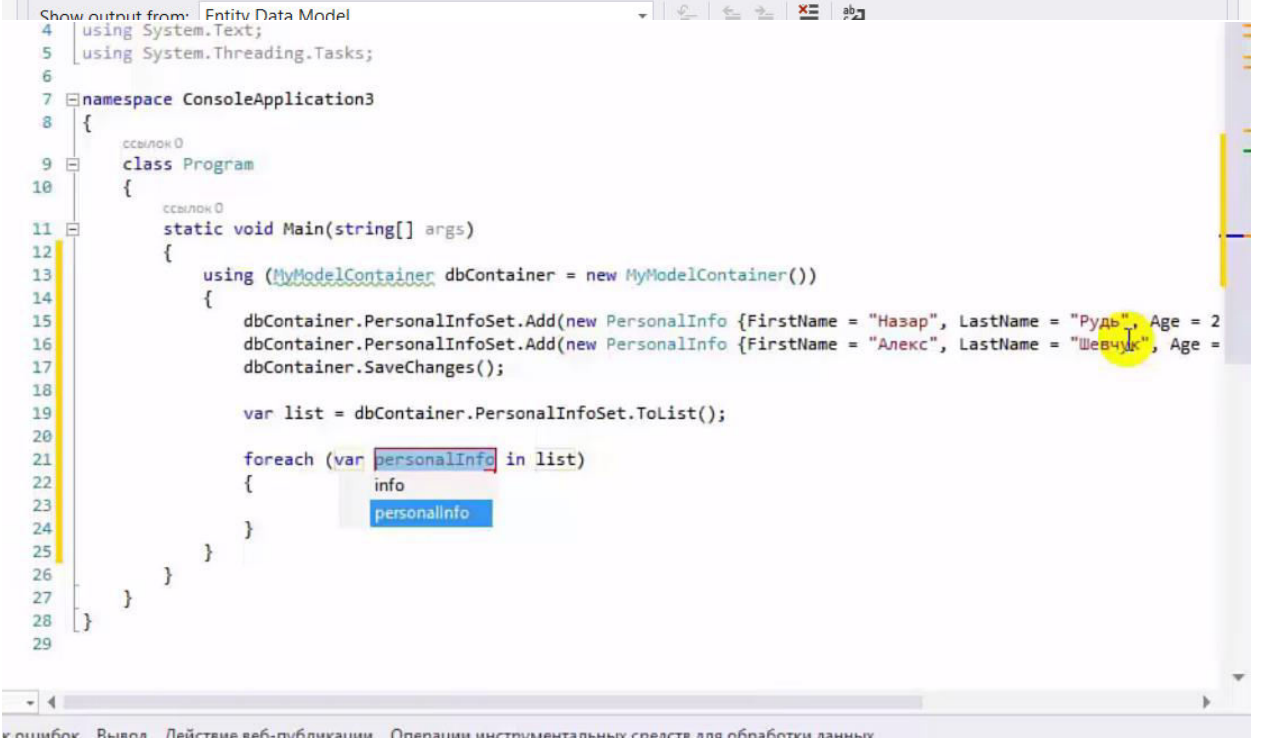

Entity1
Properties
Id
Navigation
Add New
Validate
Update Model from Database...
Generate Database from Model...
Add Code Generation Item...
Properties Alt+Enter
Scalar Property
Navigation Property
Complex Property


Entity1
Properties
Id
Property1
Property2
Property3
Navigation Properties
Add New
Diagram
Zoom
Grid
Scalar Property Format
Select All
Validate
Update Model from Database...
Generate Database from Model...
Add Code Generation Item...
Mapping Details
Model Browser
Properties Alt+Enter

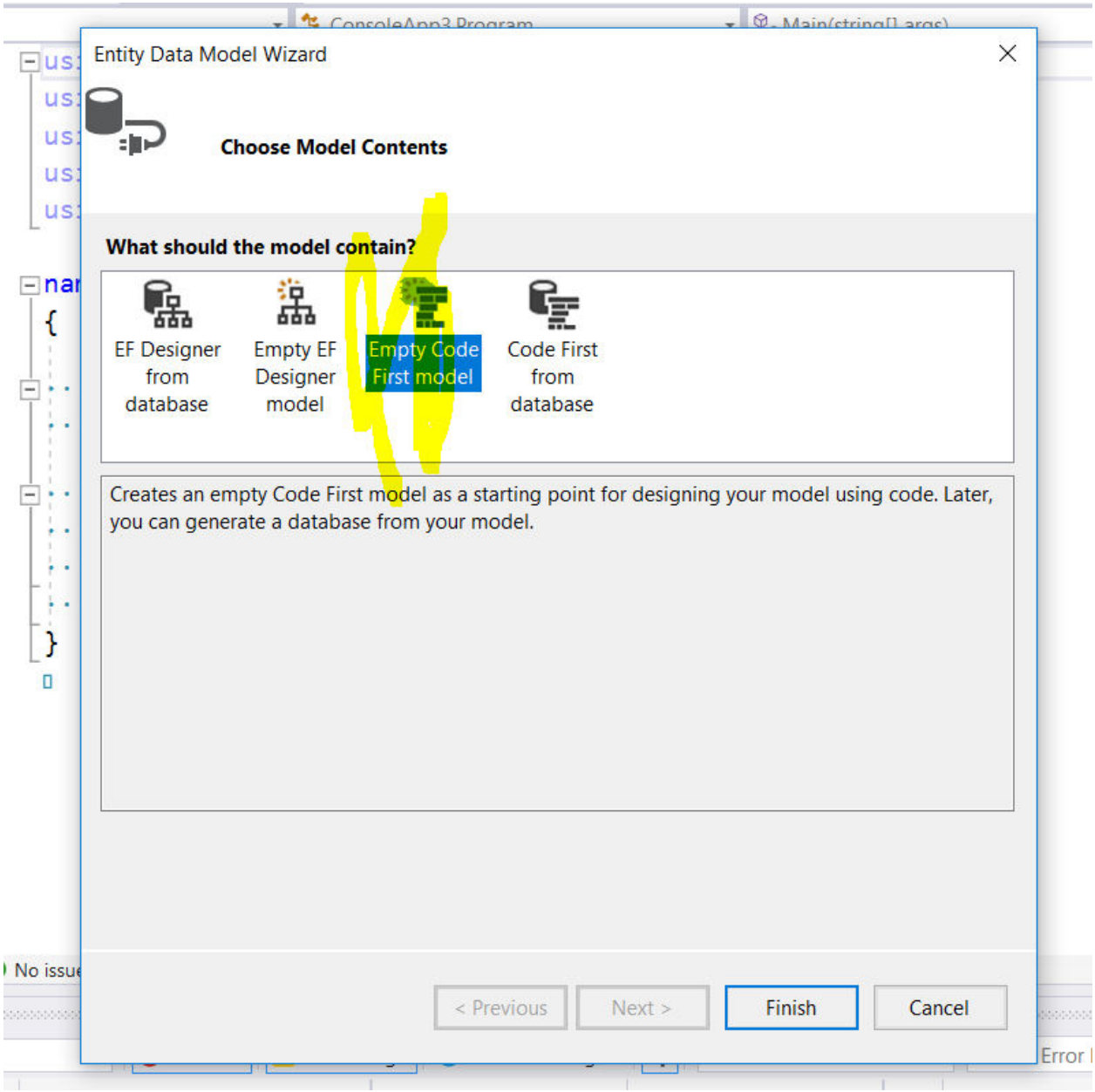

Connection Properties
Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.
Data source:
Microsoft SQL Server (SqlClient)
Change...
Server name:
(localdb)\MSSQLLocalDB
Refresh
Log on to the server
Authentication:
Windows Authentication
User name:
Password:
Save my password
Connect to a database
Select or enter a database name:
Some_18_07
Attach a database file:
Browse...
Logical name:
Advanced...
Test Connection
OK
Cancel

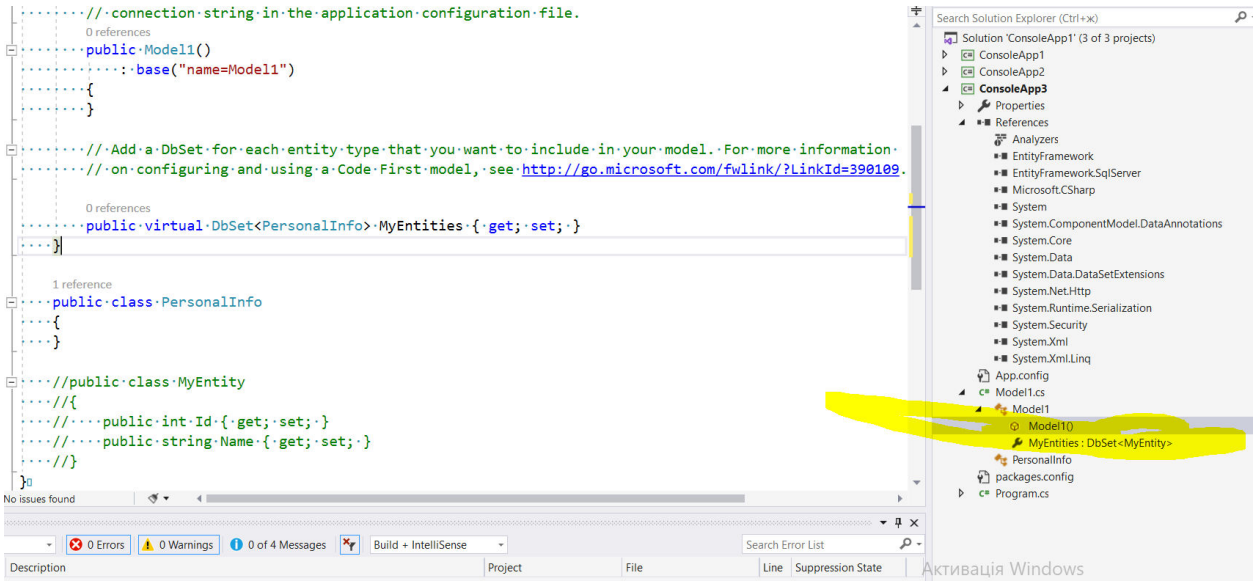

Generate Database Wizard
Summary and Settings
Save DDL As:
Model1.edmx.sql
DDL
-- ----------
-- Entity Designer DDL Script for SQL Server 2005, 2008, 2012 and Azure
-- ----------
-- Date Created: 07/13/2020 07:42:33
-- Generated from EDMX file: C:\Users\Alexs\source\repos
\ConsoleApp1\ConsoleApp2\Model1.edmx
-- ----------
SET QUOTED_IDENTIFIER OFF;
GO
USE [Some_18_07];
GO
IF SCHEMA_ID(N'dbo') IS NULL EXECUTE(N'CREATE SCHEMA [dbo]');
GO
-- ----------
-- Dropping existing FOREIGN KEY constraints
-- ----------
< Previous
Next >
Finish
Cancel

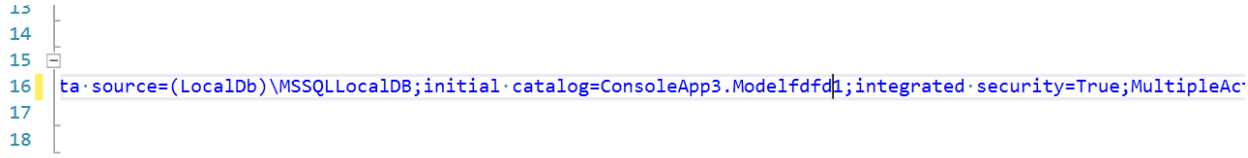

Model1.edmx.sql
Model1.edmx [Diagram1]*
NuGet: ConsoleApp2*
Program.cs
dbo.Table [Data]
Some_18_07
37 GO
38
39 ---
40 ---Creating all PRIMARY KEY constraints
41 ---
42
43 ---Creating primary key on [Id] in table 'Entity1Set'
44 ALTER TABLE [dbo].[Entity1Set]
45 ADD CONSTRAINT [PK_Entity1Set]
46 PRIMARY KEY CLUSTERED ([Id] ASC);
47 GO
48
49 ---
50 ---Creating all FOREIGN KEY constraints
128 %
No issues found
T-SQL
Message
Command(s) completed successfully.
128 %
No issues found
Query executed successfully at 7:43:44
(localdb)\MSSQLLocalDB (13....
DESKTOP-0K20LCS\Alexs ...
Some_18_07
00:00:00
0 rows
Output
Show output from: Entity Data Model


using System.Text;
using System.Threading.Tasks;
namespace ConsoleApplication3
{
ссылок 0
class Program
{
ссылок 0
static void Main(string[] args)
{
using (MyModelContainer dbContainer = new MyModelContainer())
{
dbContainer.PersonalInfoSet.Add(new PersonalInfo {FirstName = "Назар", LastName = "Рудь", Age = 2
dbContainer.PersonalInfoSet.Add(new PersonalInfo {FirstName = "Алекс", LastName = "Шевчук", Age =
dbContainer.SaveChanges();
var list = dbContainer.PersonalInfoSet.ToList();
foreach (var personalInfo in list)
{
info
personalInfo
}
}
}
}
}

3) Code first


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 an empty Code First model as a starting point for designing your model using code. Later, you can generate a database from your model.
< Previous
Next >
Finish
Cancel


//·connection·string·in·the·application·configuration·file.
0 references
public·Model1()
:·base("name=Model1")
{
}
//·Add·a·DbSet·for·each·entity·type·that·you·want·to·include·in·your·model.·For·more·information·
//·on·configuring·and·using·a·Code·First·model,·see·http://go.microsoft.com/fwlink/?LinkId=390109.
0 references
public·virtual·DbSet<PersonalInfo>·MyEntities·{·get;·set;·}
}
1 reference
public·class·PersonalInfo
{
}
//public·class·MyEntity
//{
//····public·int·Id·{·get;·set;·}
//····public·string·Name·{·get;·set;·}
//}
}
No issues found
Search Solution Explorer (Ctrl+ж)
Solution 'ConsoleApp1' (3 of 3 projects)
ConsoleApp1
ConsoleApp2
ConsoleApp3
Properties
References
Analyzers
EntityFramework
EntityFramework.SqlServer
Microsoft.CSharp
System
System.ComponentModel.DataAnnotations
System.Core
System.Data
System.Data.DataSetExtensions
System.Net.Http
System.Runtime.Serialization
System.Security
System.Xml
System.Xml.Linq
App.config
Model1.cs
Model1
Model1()
MyEntities : DbSet<MyEntity>
PersonalInfo
packages.config
Program.cs
0 Errors
0 Warnings
0 of 4 Messages
Build + IntelliSense
Search Error List
Description
Project
File
Line
Suppression State
Активація Windows


13
14
15
16
ta·source=(LocalDb)\MSSQLLocalDB;initial·catalog=ConsoleApp3.Modelfdfd1;integrated·security=True;MultipleAc
17
18