

My first Universal Windows App for Windows 10

Víctor Moreno

Microsoft MVP @vmorenoz



What am I going to learn?

In this demo, you will learn how to develop your first universal windows app for Windows 10, using the same code you will have visibility of how it can works in three different devices:

- PC
- Smart Phone
- Tablet

Goal

Build an universal windows app for Windows 10, letting store answers from a little form.

These data will be stored in a table on SQL Azure.

Requirements

- Windows 10 on our three devices.
- A Microsoft Azure account (if you don't have one, you can get a test account from Azure portal).
- Visual Studio 2015.

My first universal windows app for Windows 10





Creating our SQL Azure database

We will have to get in Microsoft Azure Portal and create a new SQL Azure database.

http://manage.windowsazure.com







MÁQUINAS VIRTUALES



SERVICIOS MÓVILES



SERVICIOS EN LA NUBE





BASES DE DATOS SQL



ALMACENAMIENTO



HDINSIGHT



SERVICIOS MULTIMEDIA





MOBILE ENGAGEMENT



VISUAL STUDIO TEAM SE..

bases de datos sql

BASES DE DATOS SERVIDORES

BASES DE DATOS ELIMINADAS

NOMBRE

ESTADO

UBICACIÓN

SUSCRIPCIÓN

SERVIDOR

EDICIÓN

TAMAÑO MÁXI... 🔎

No tiene bases de datos SQL. Cree una para empezar a trabajar.

CREAR UNA BASE DE DATOS SQL 🗿

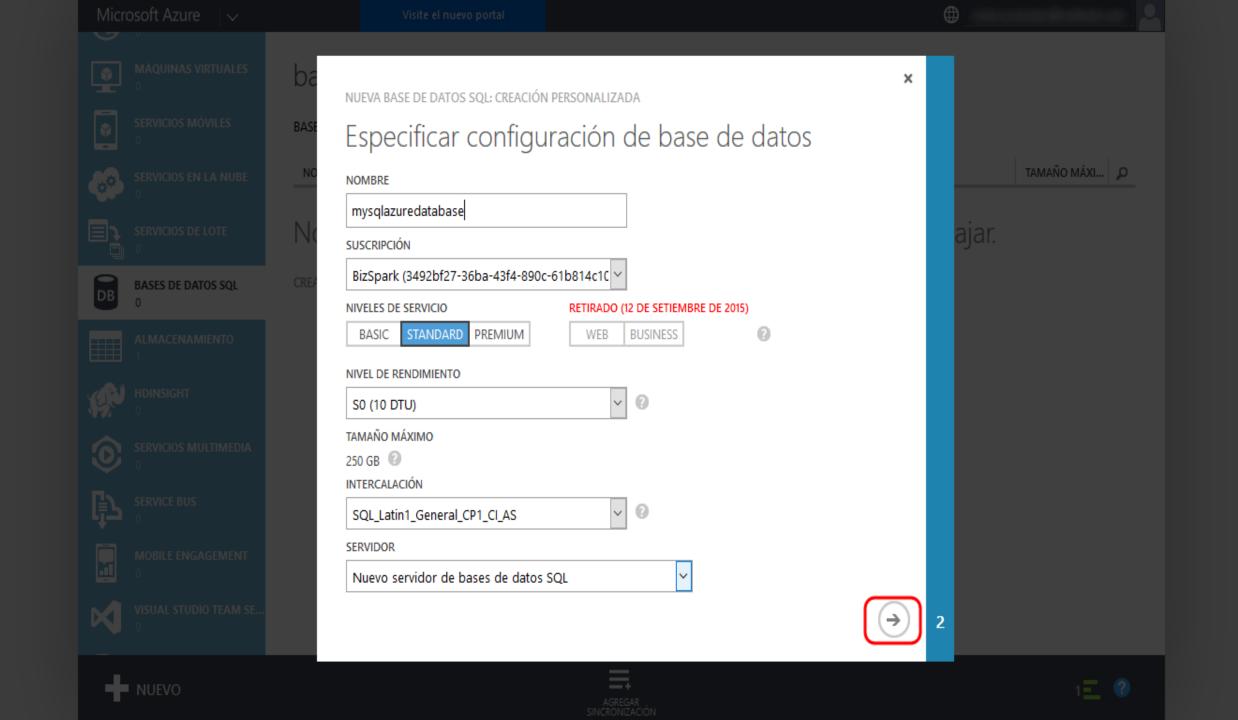


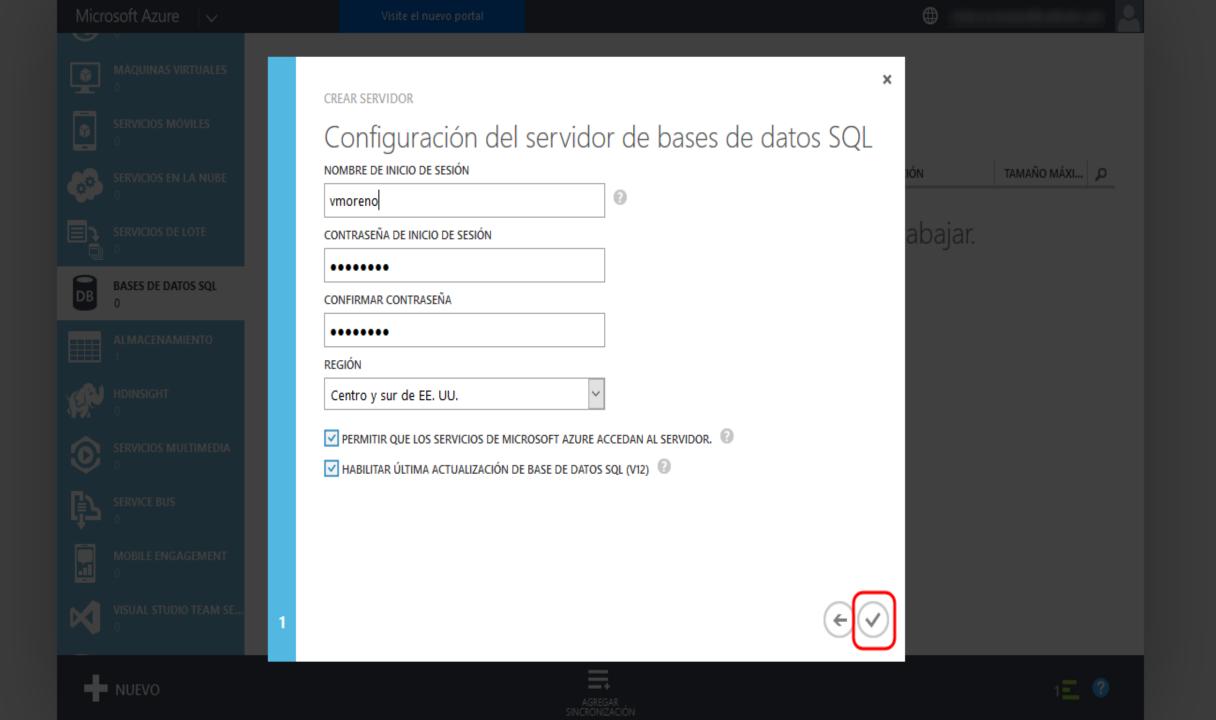






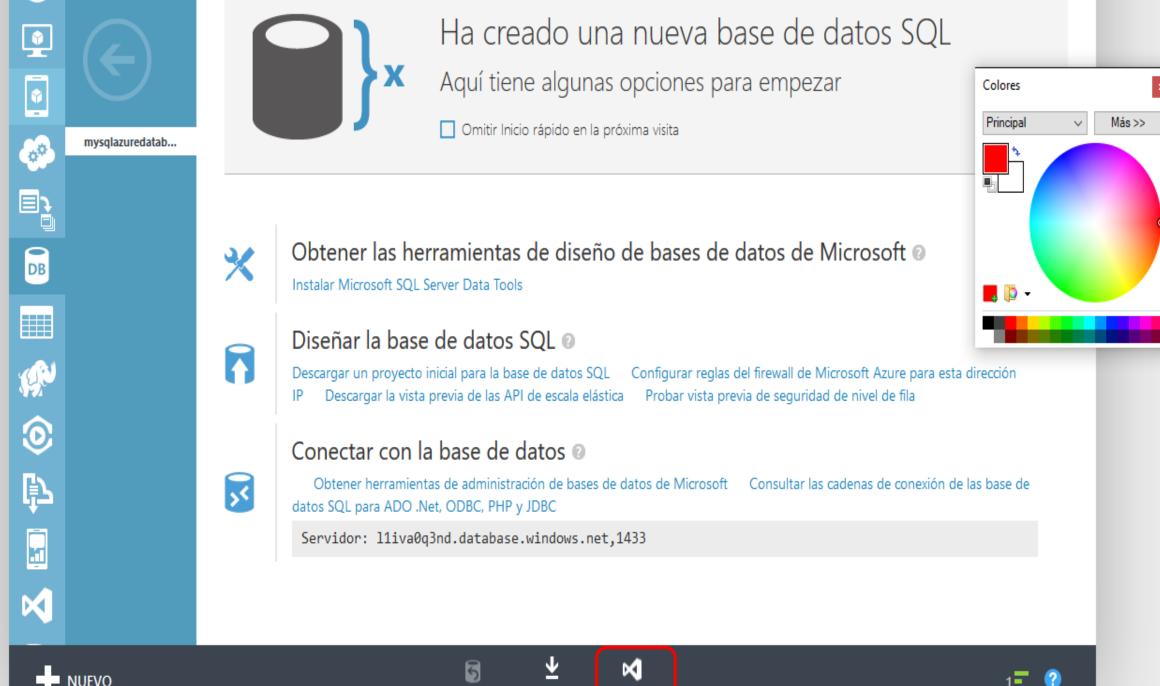






Creating table

We will open our SQL Azure database from Visual Studio to create a table which will serve us to store information.



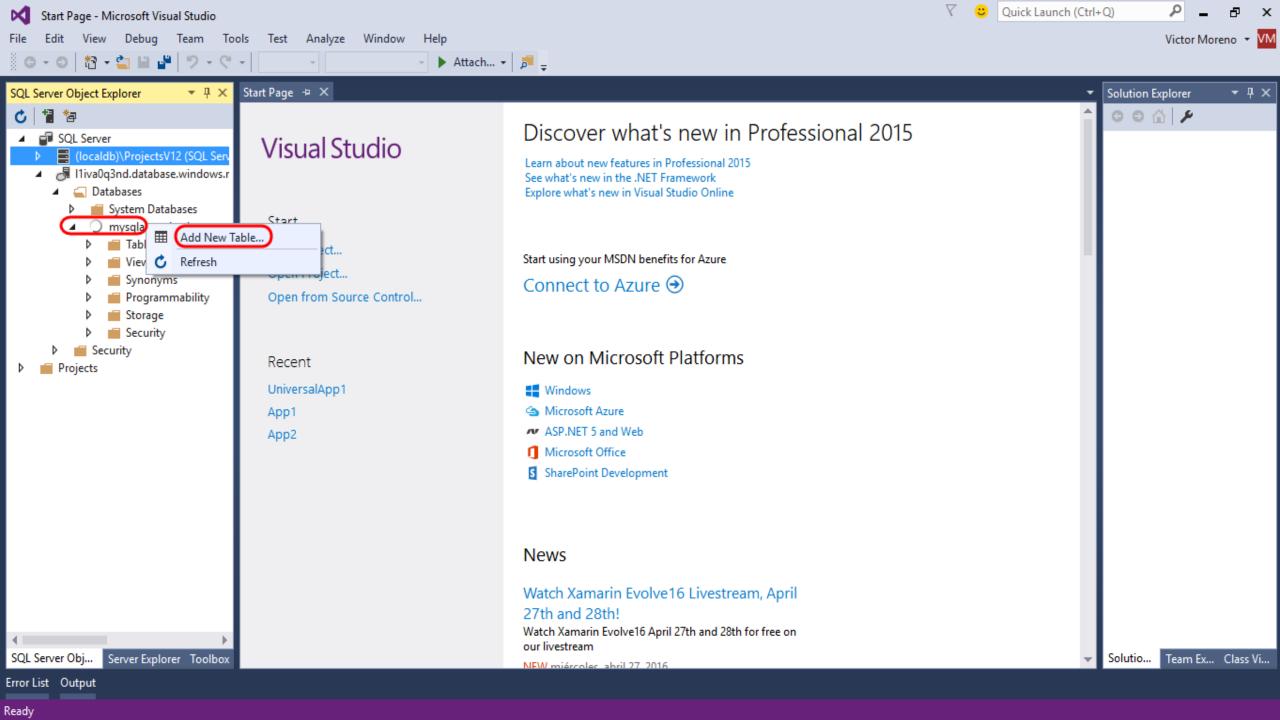


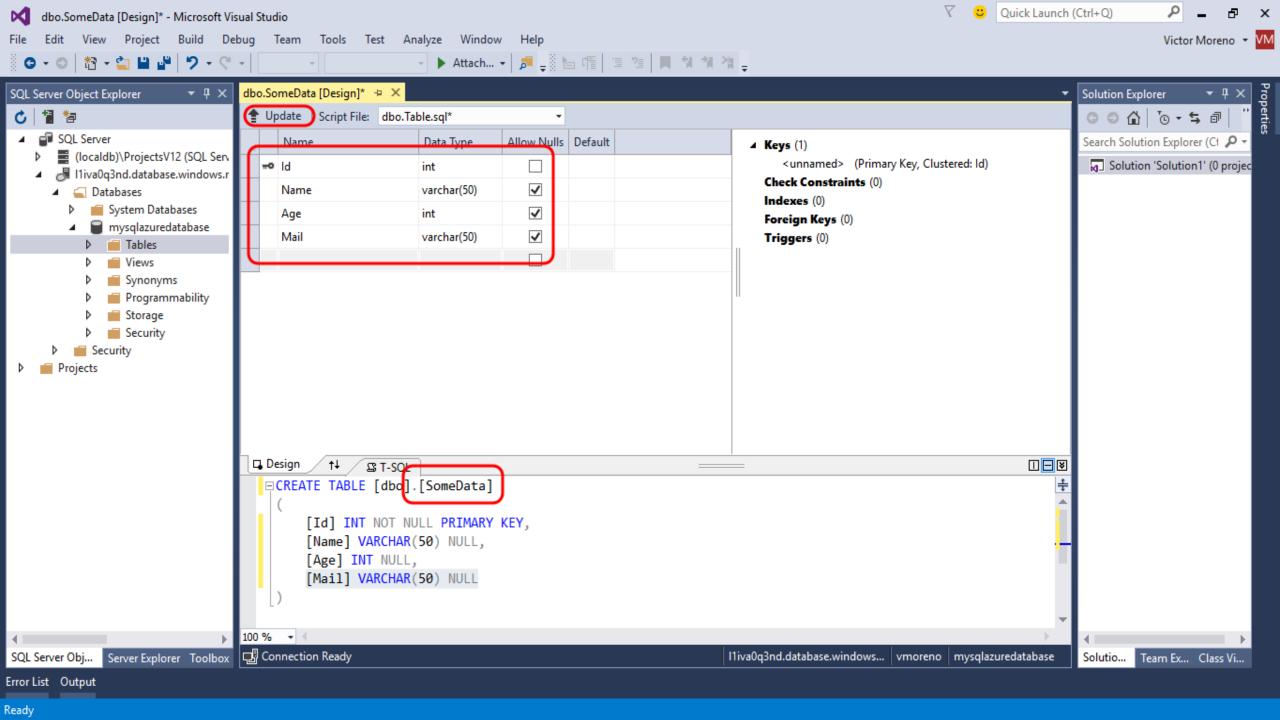


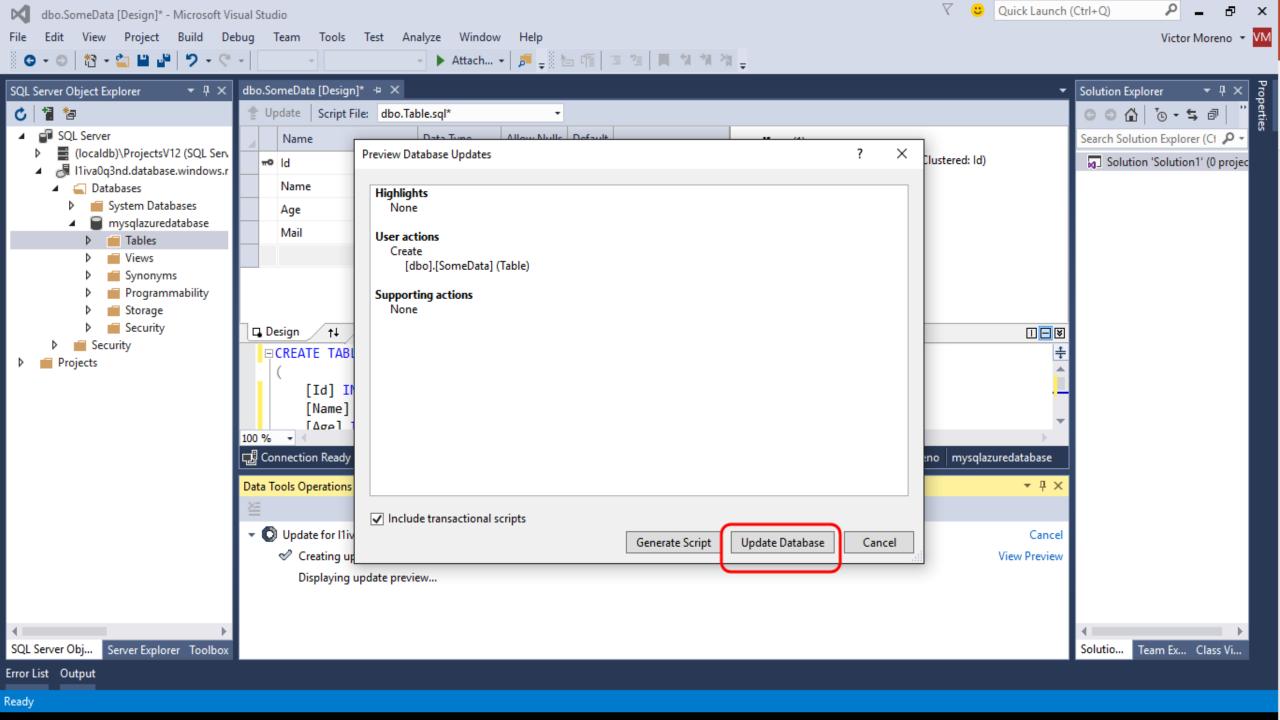






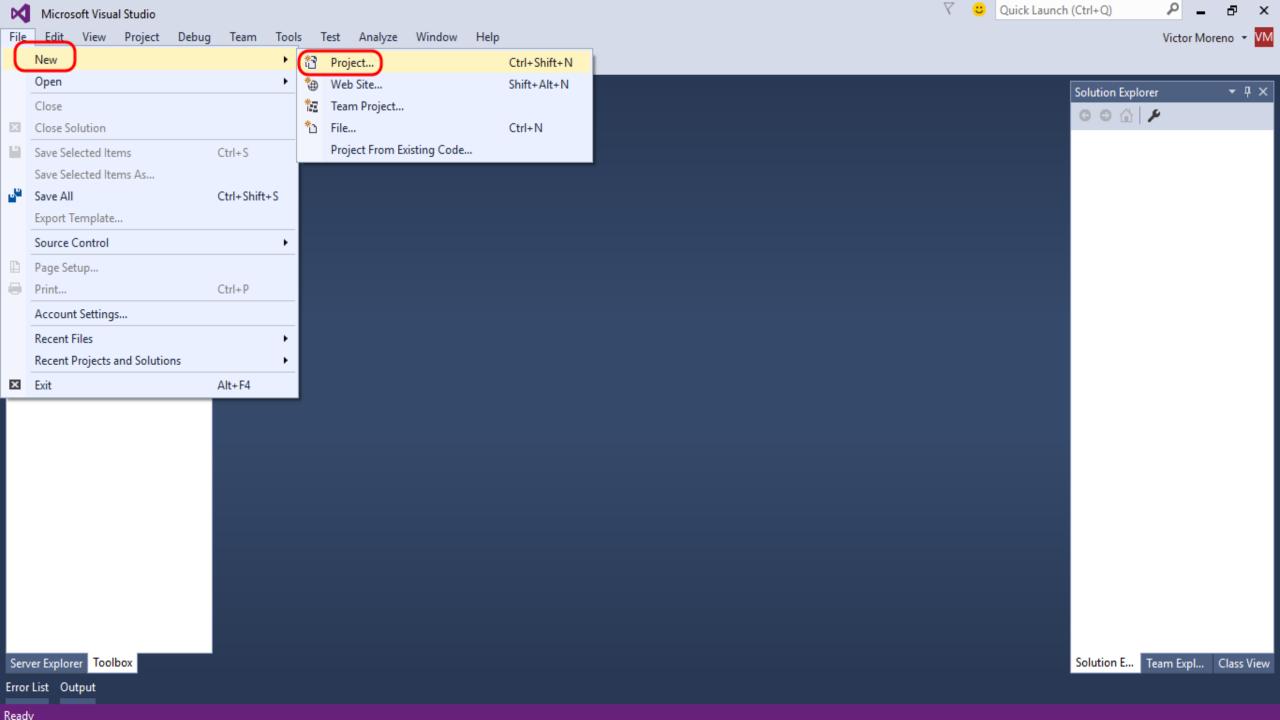


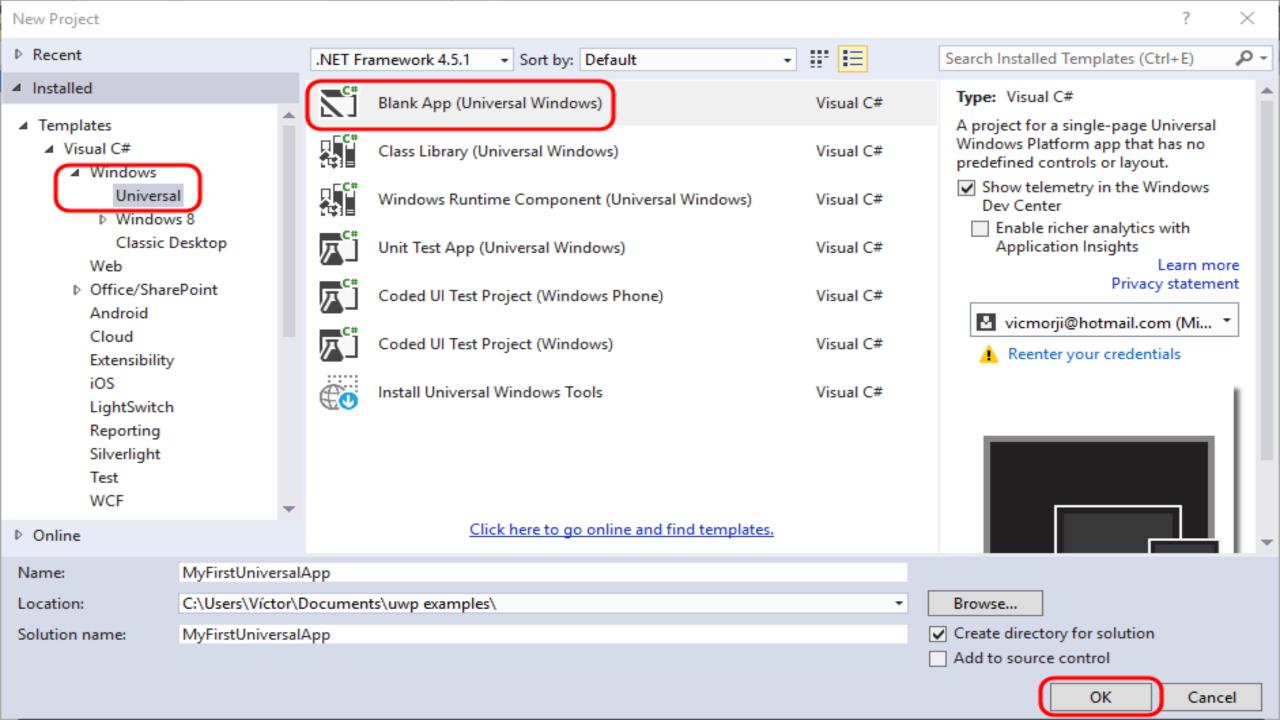




Creating project

We will open Visual Studio 2015 and start a new Project.



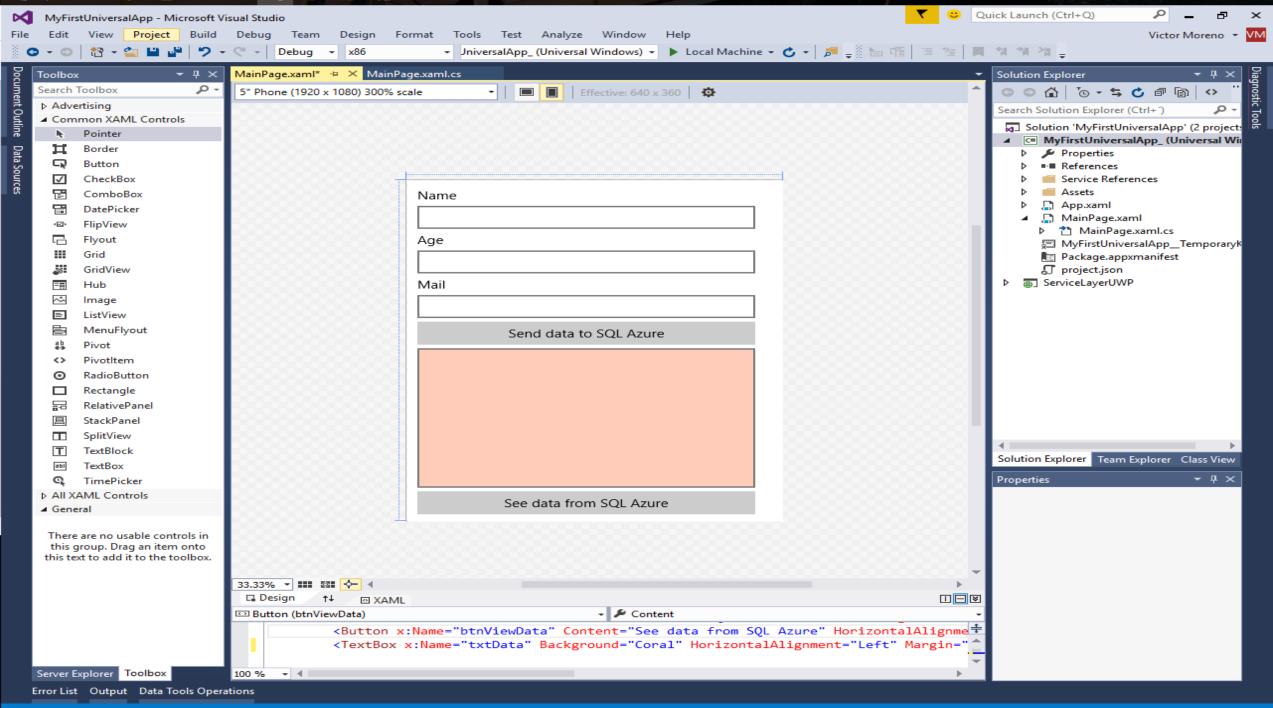


Designing our graphic user interface

We will open the file "MainPage.xaml" in design mode, and add some controls to capture necessary data.

The used controls are:

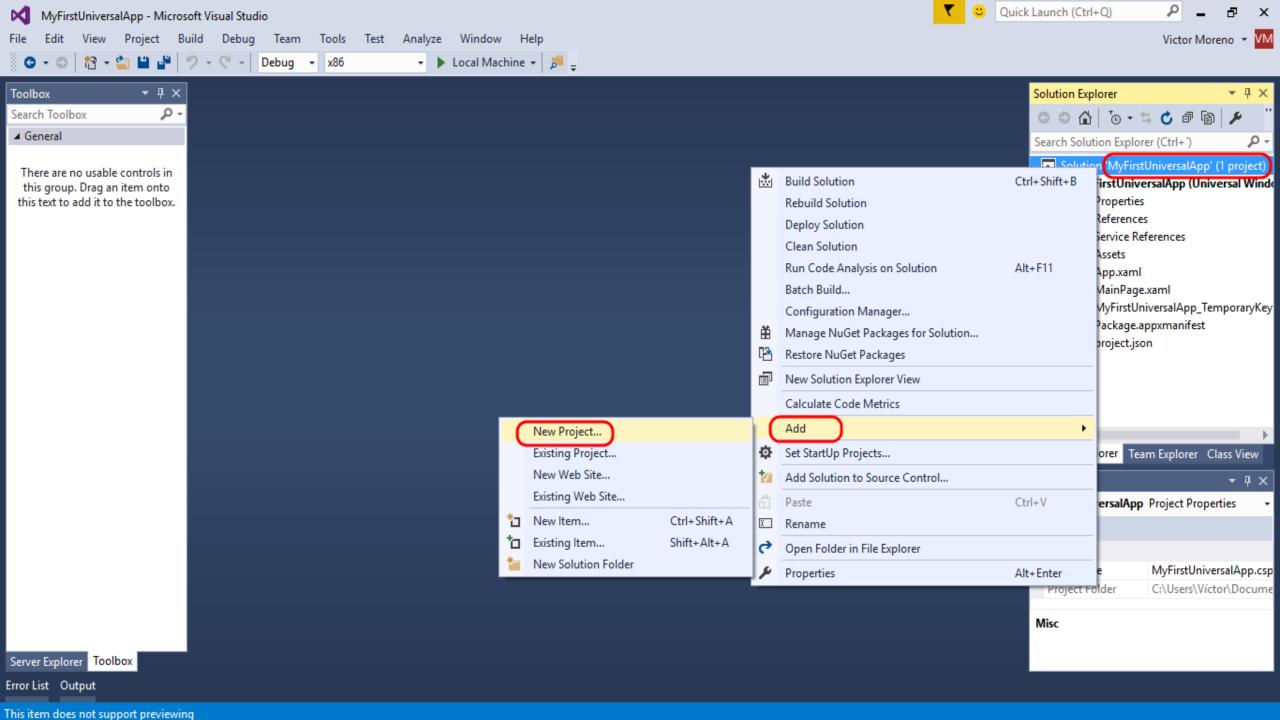
- TextBlock
- TextBox
- Button

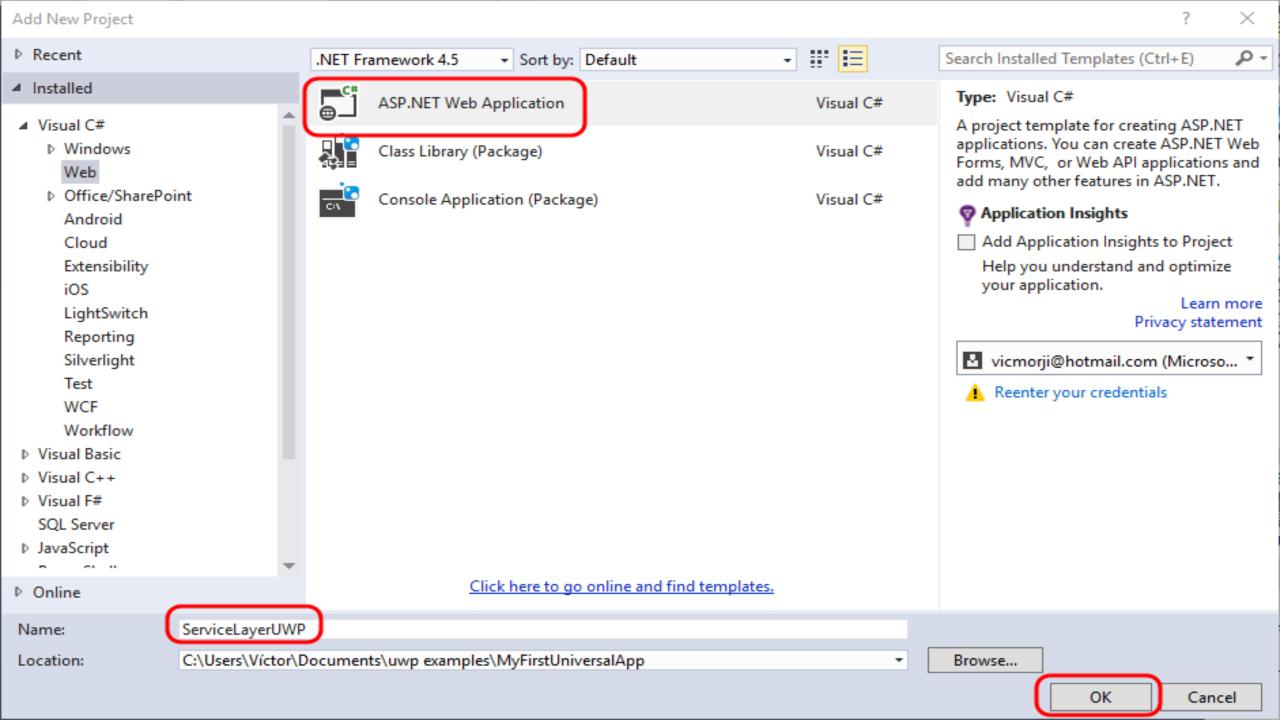


When we have our database ready, we need to model it in our project, we will use the following:

- A project working as communication layer between our universal windows app and the database (ASP .NET Project).
- Entity Framework to model our database with classes.
- A WCF service (Windows Communication Foundation) to program access to database.

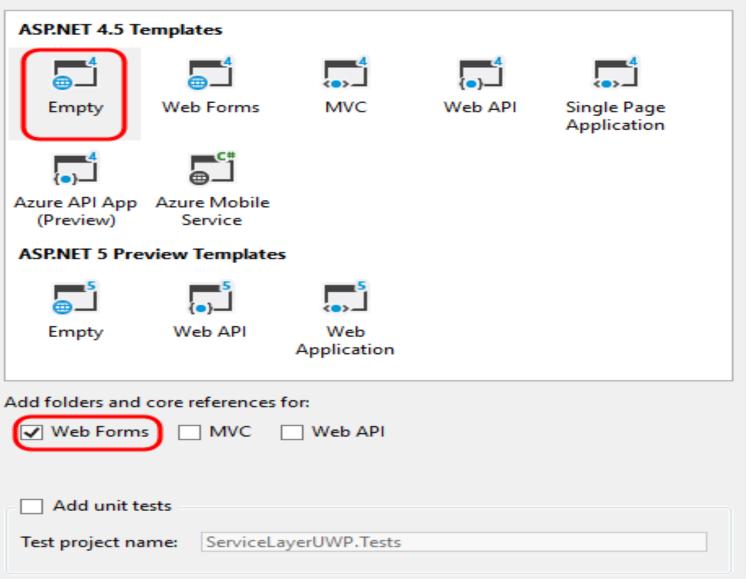
A project working as communication layer between our universal windows app and the database (ASP .NET Project).





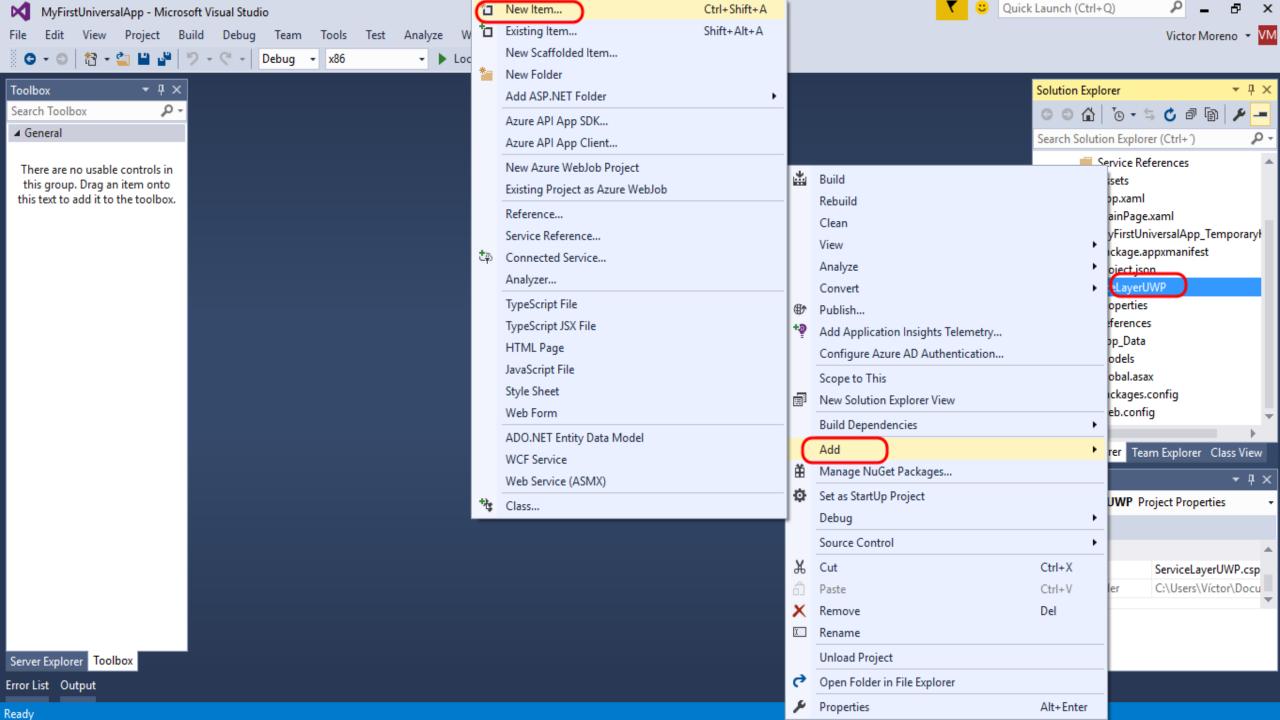
 \times

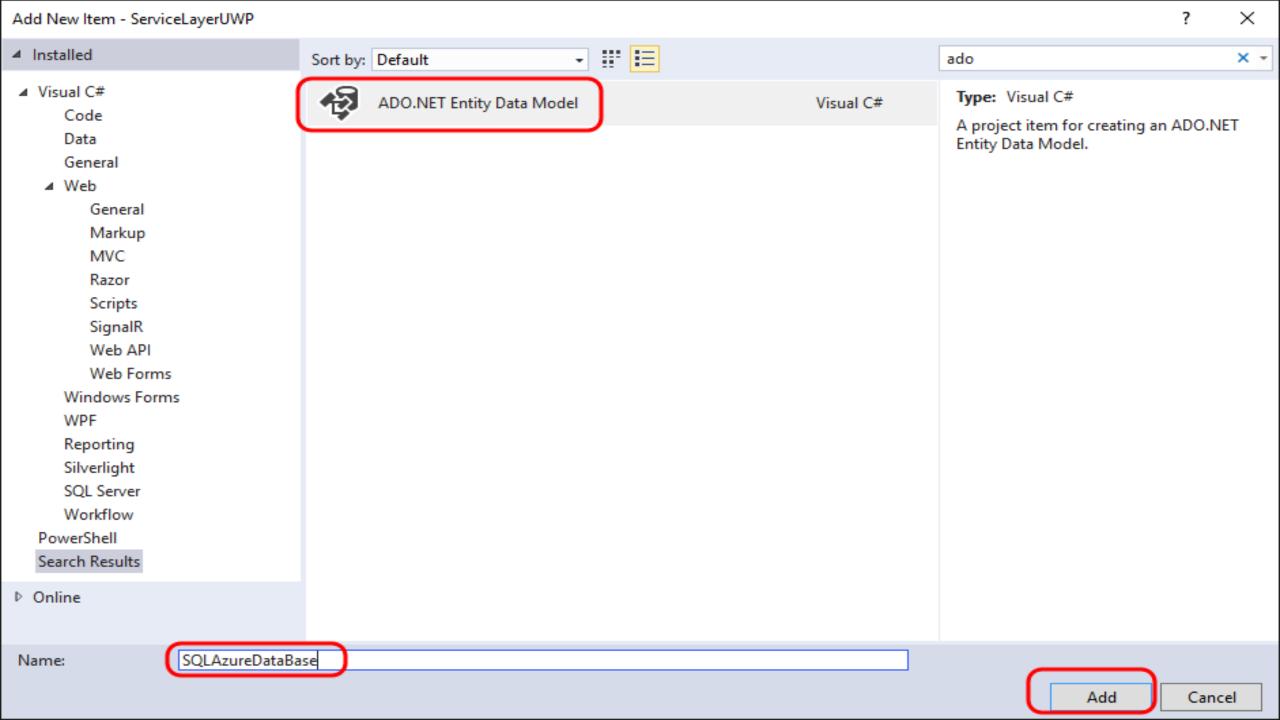
Select a template:



An empty project template for creating ASP.NET applications. This template does not have any content in it. Learn more Change Authentication Authentication: No Authentication Microsoft Azure Host in the cloud Web App

Entity Framework to model our database with classes.







Choose Model Contents

What should the model contain?









Empty EF Designer model Empty Code First Code First from model database

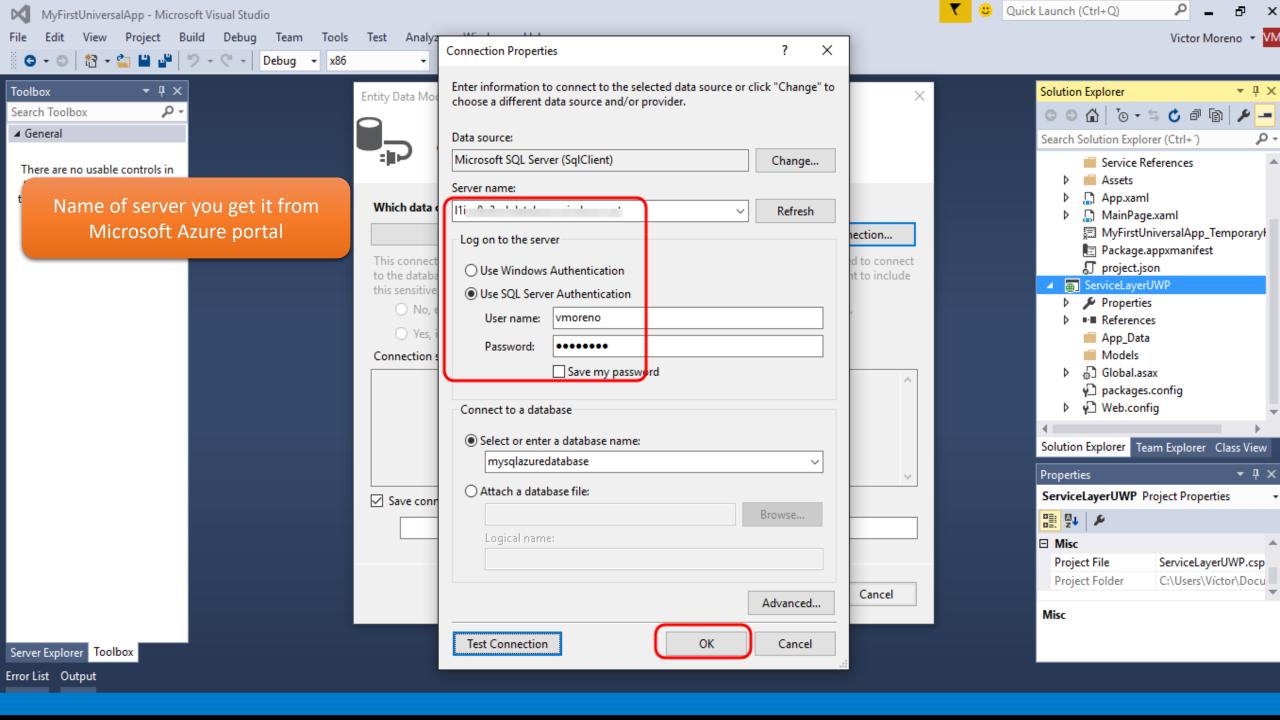
Creates a model in the EF Designer based on an existing database. You can choose the database connection, settings for the model, and database objects to include in the model. The classes your application will interact with are generated from the model.

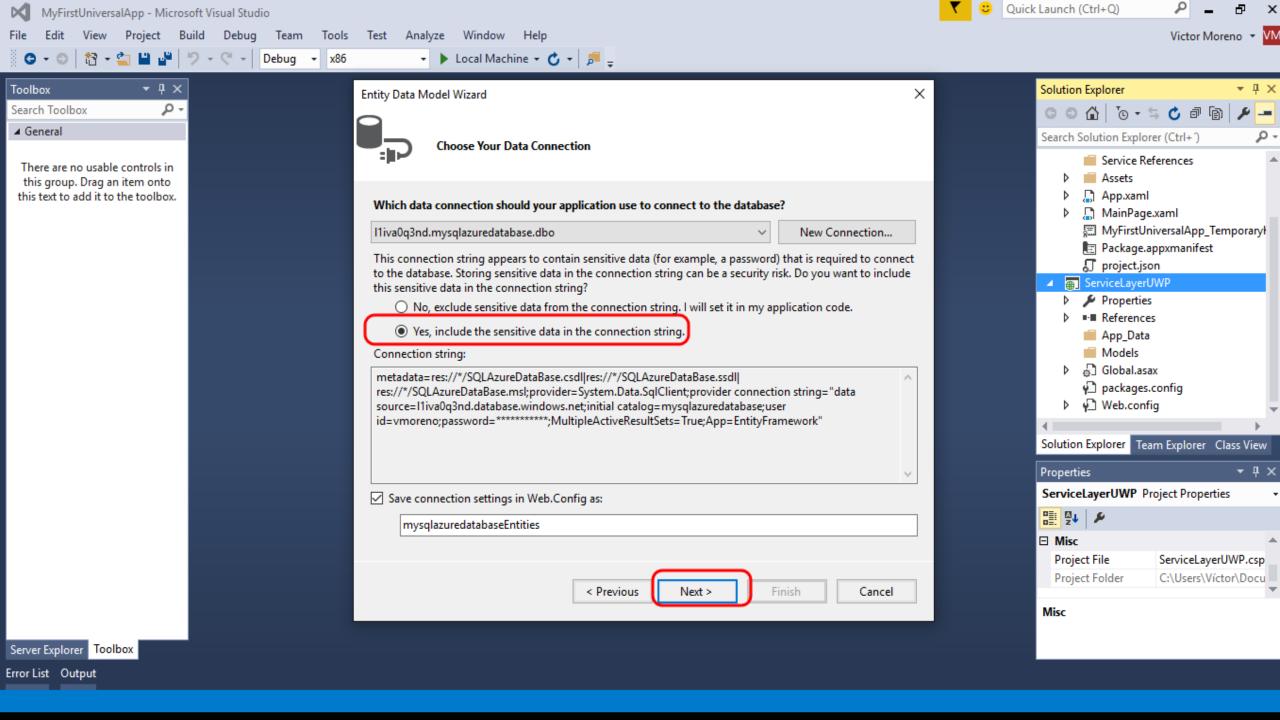
< Previous

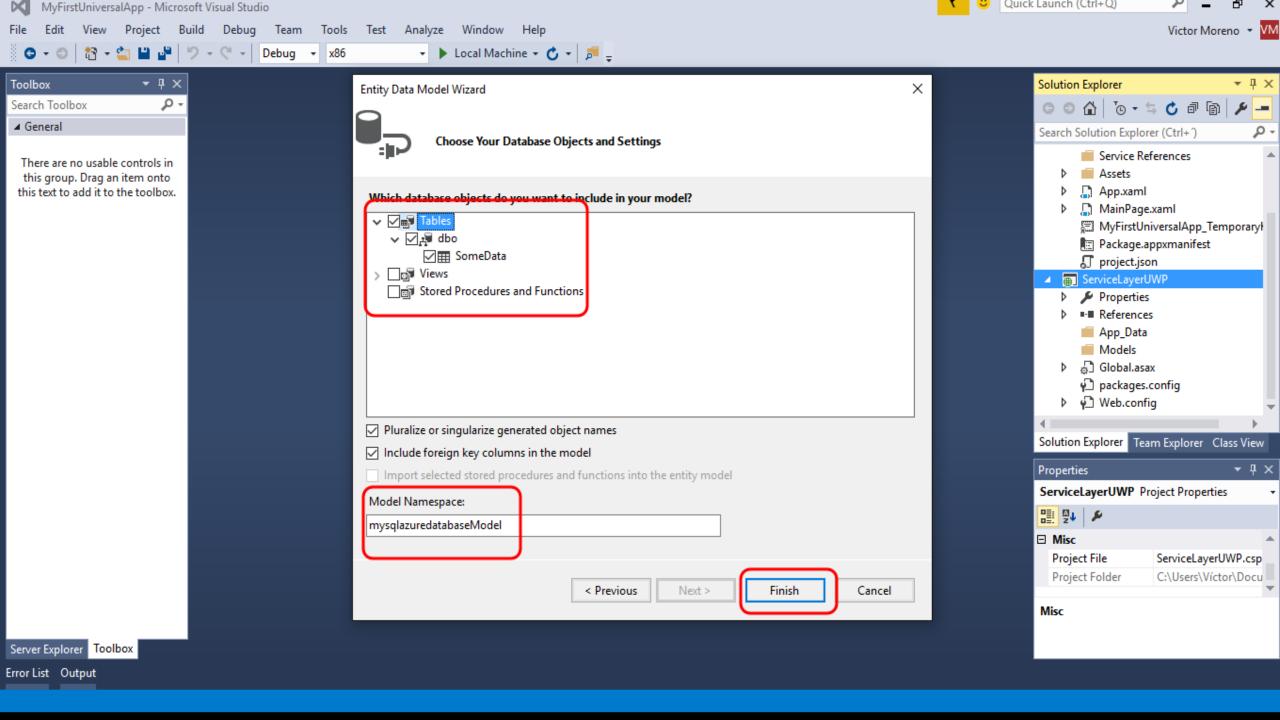


Finish

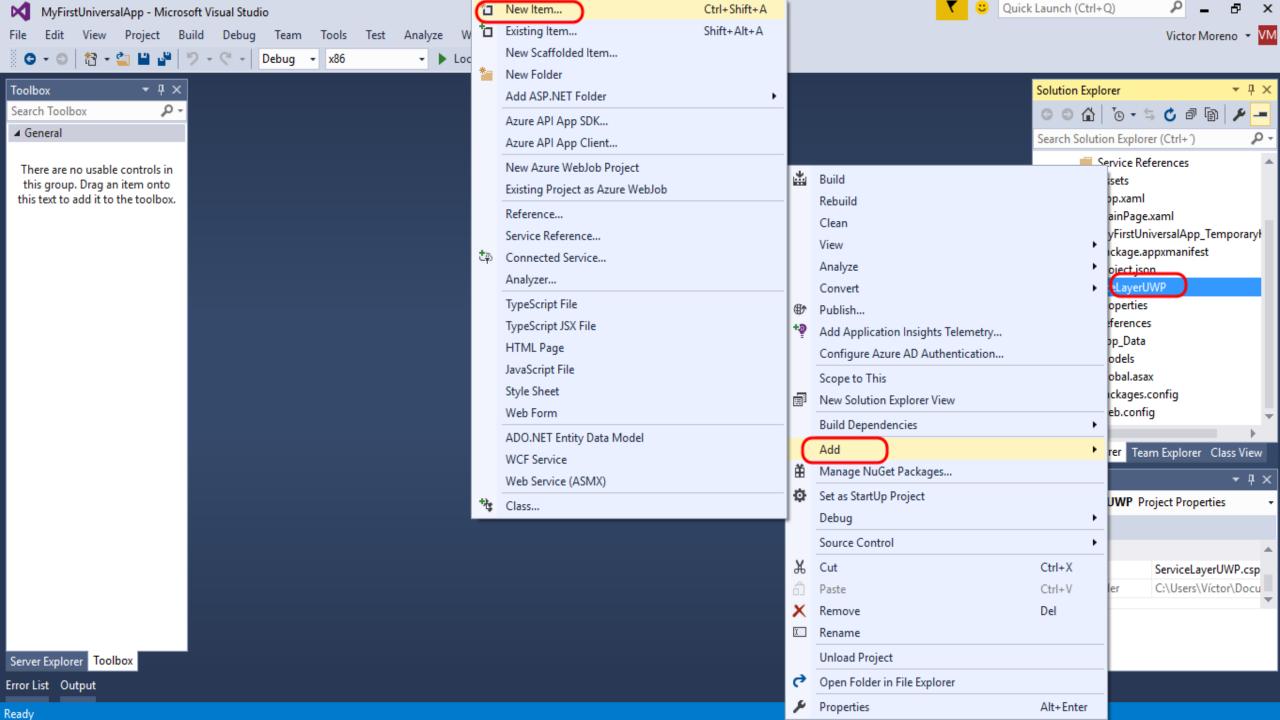
Cancel

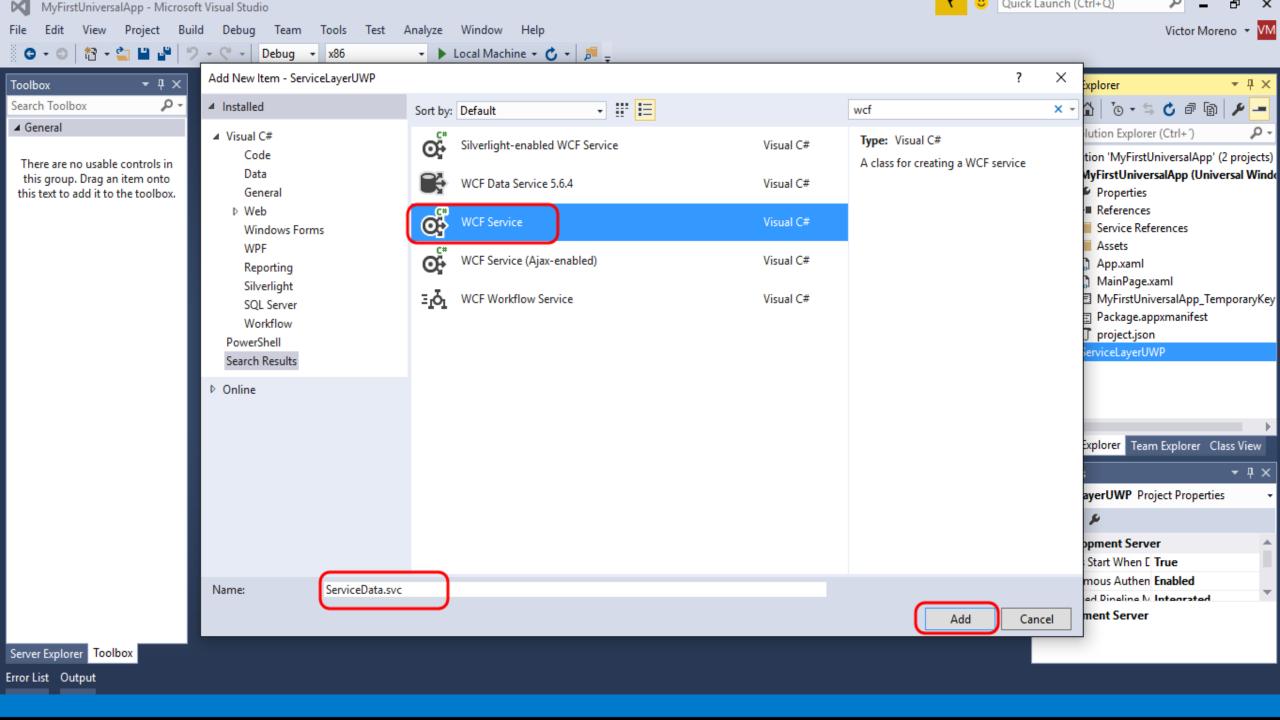


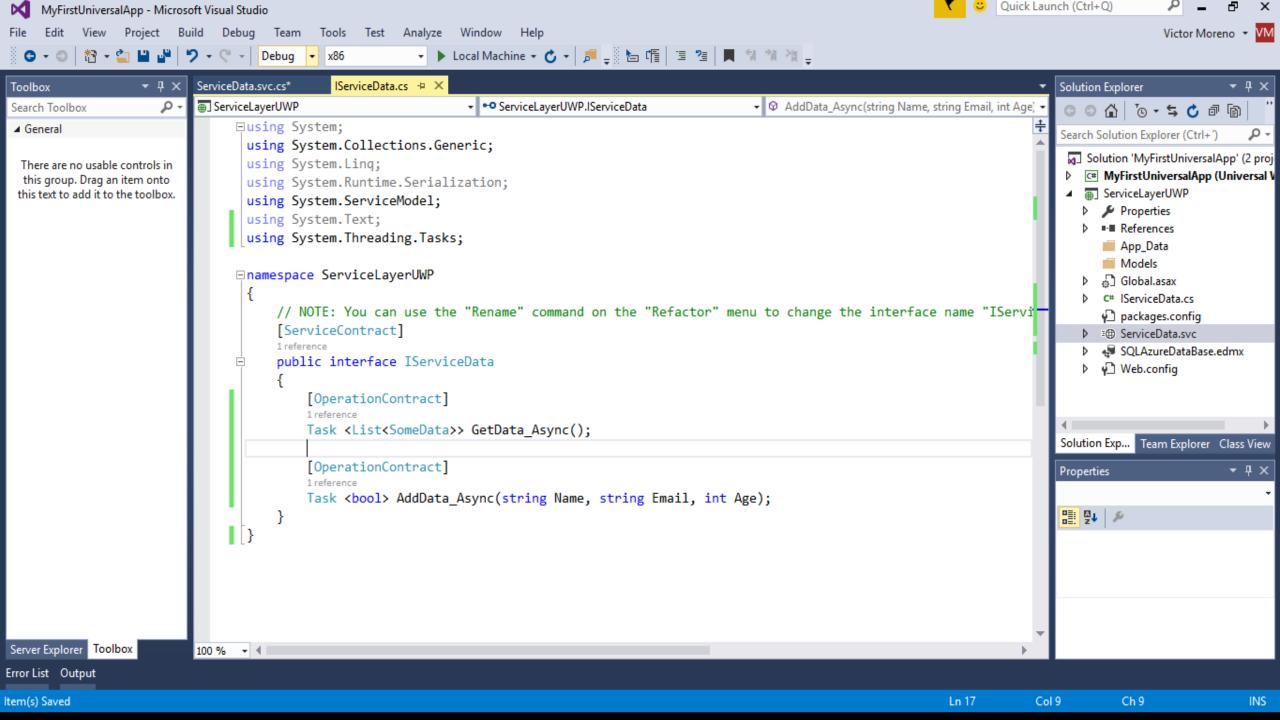


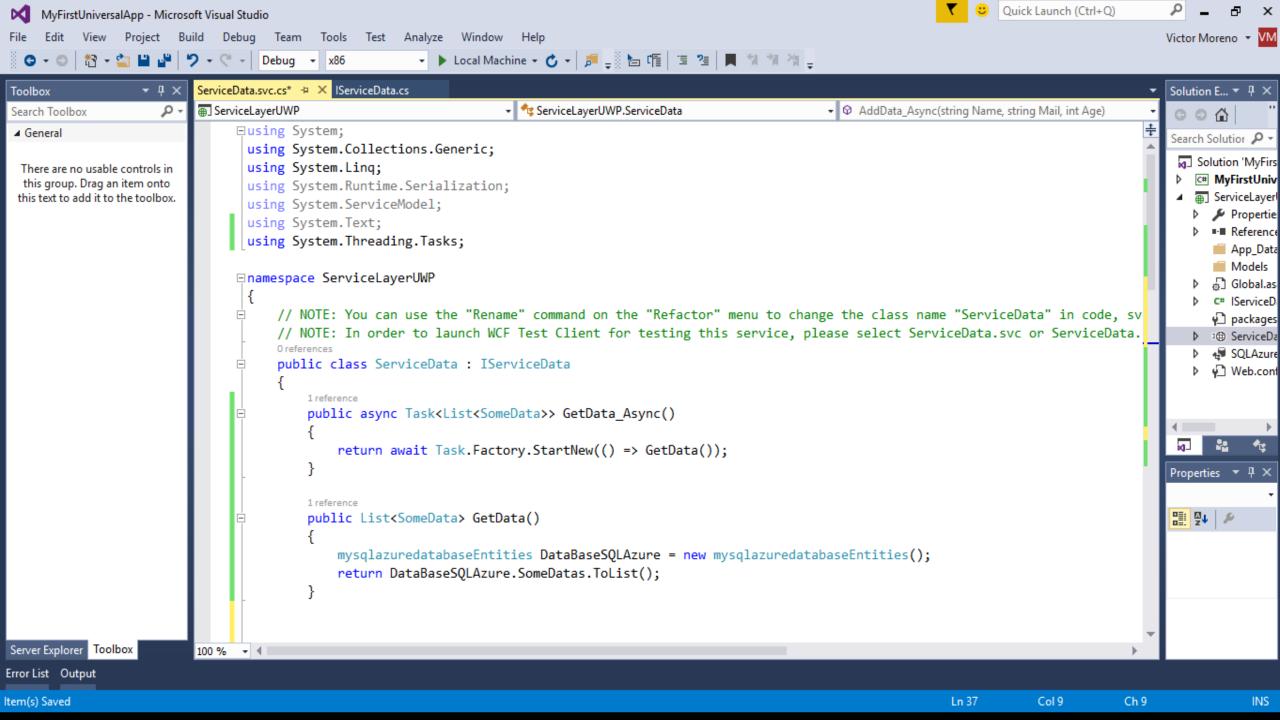


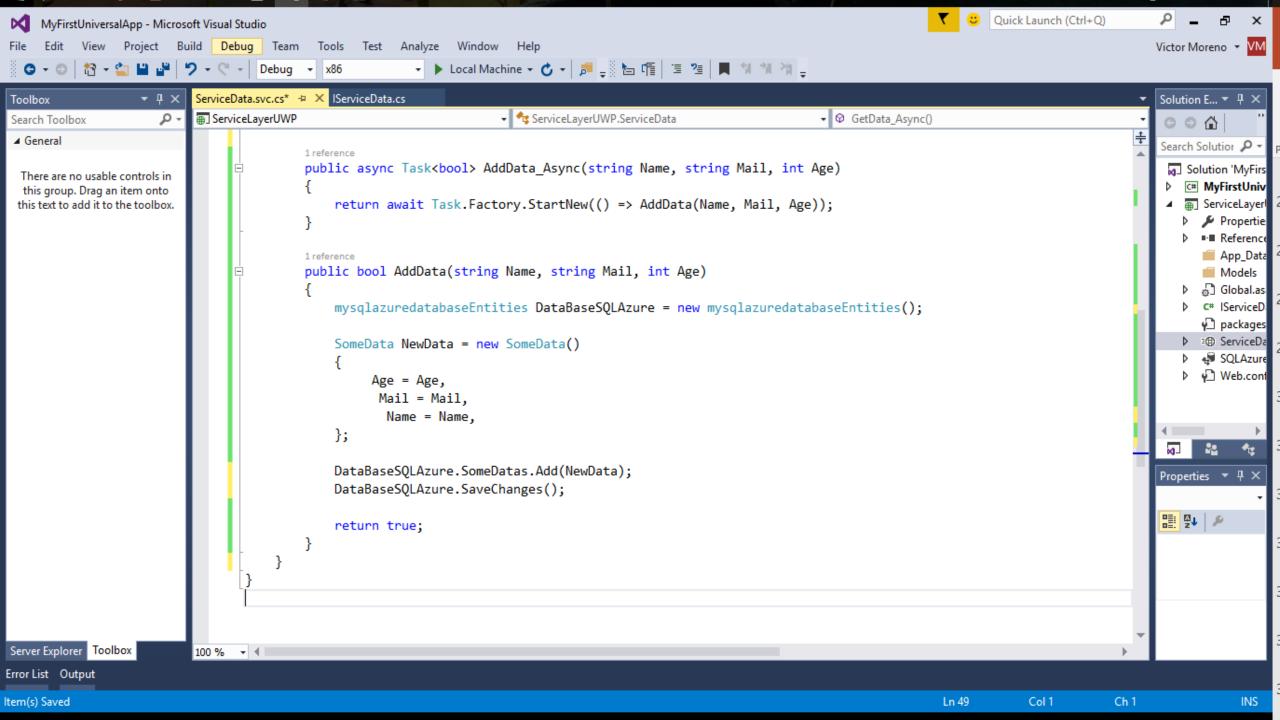
A WCF service (Windows Communication Foundation) to program access to database.





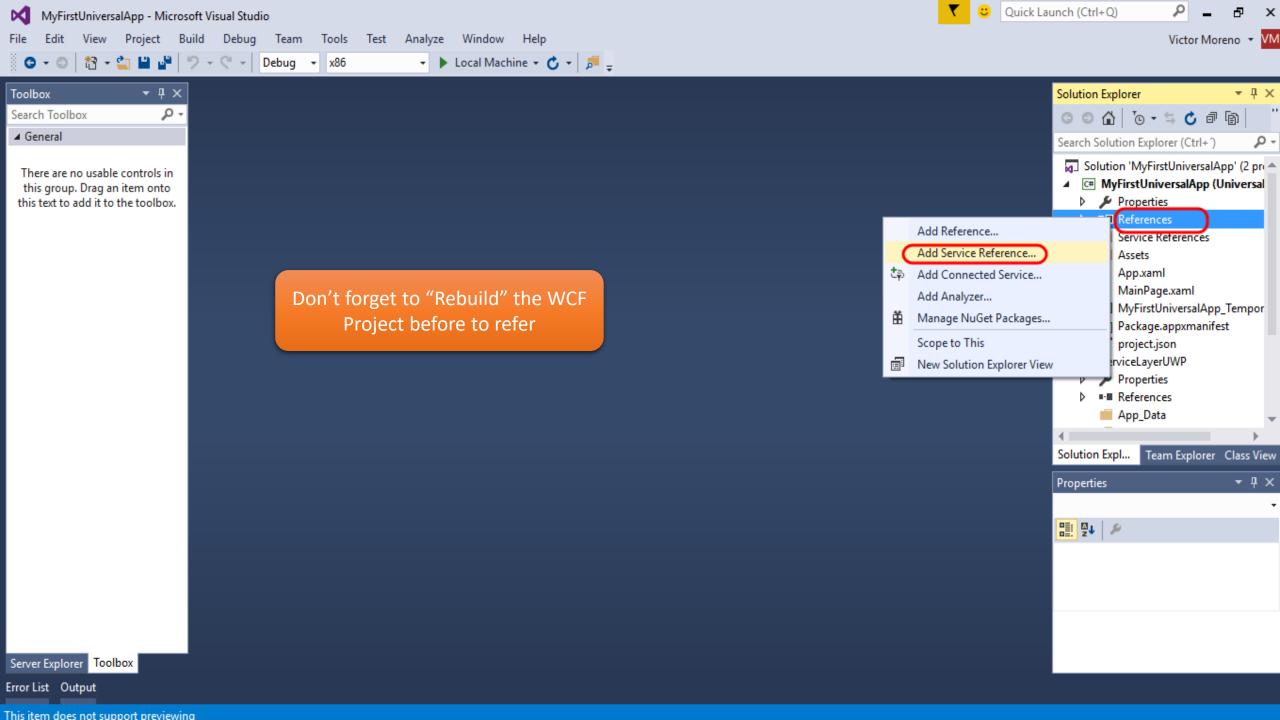


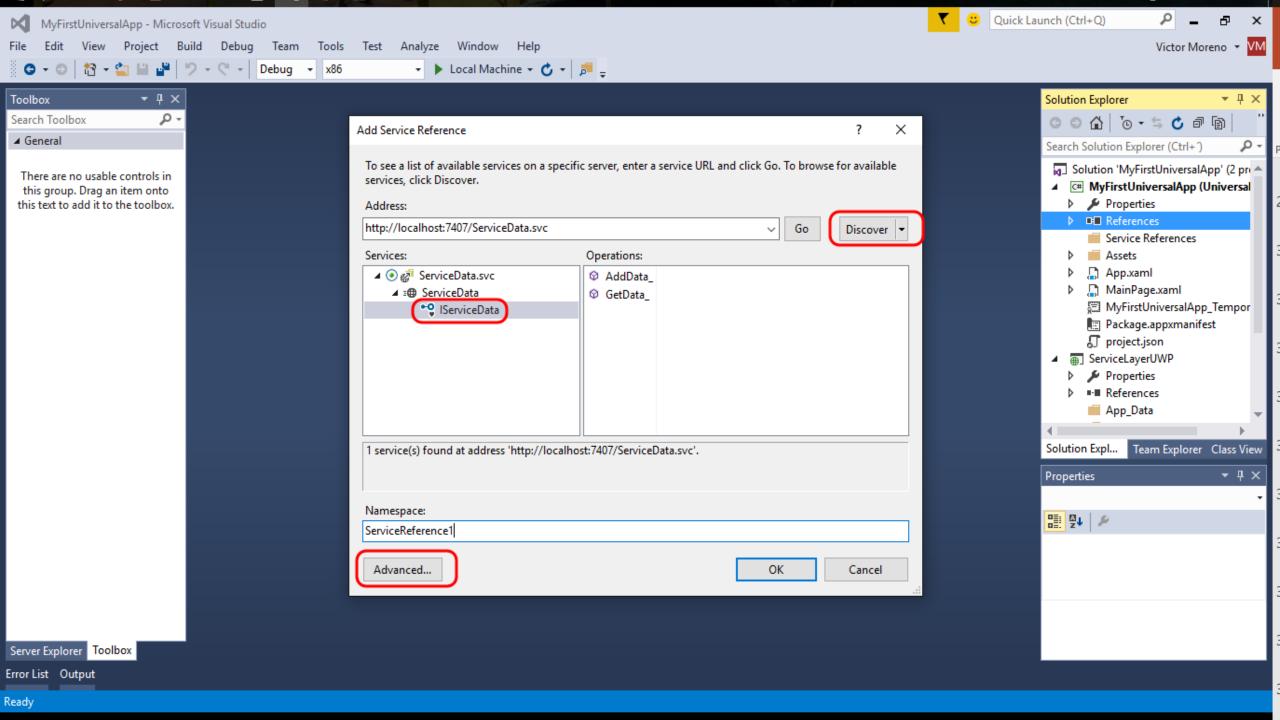


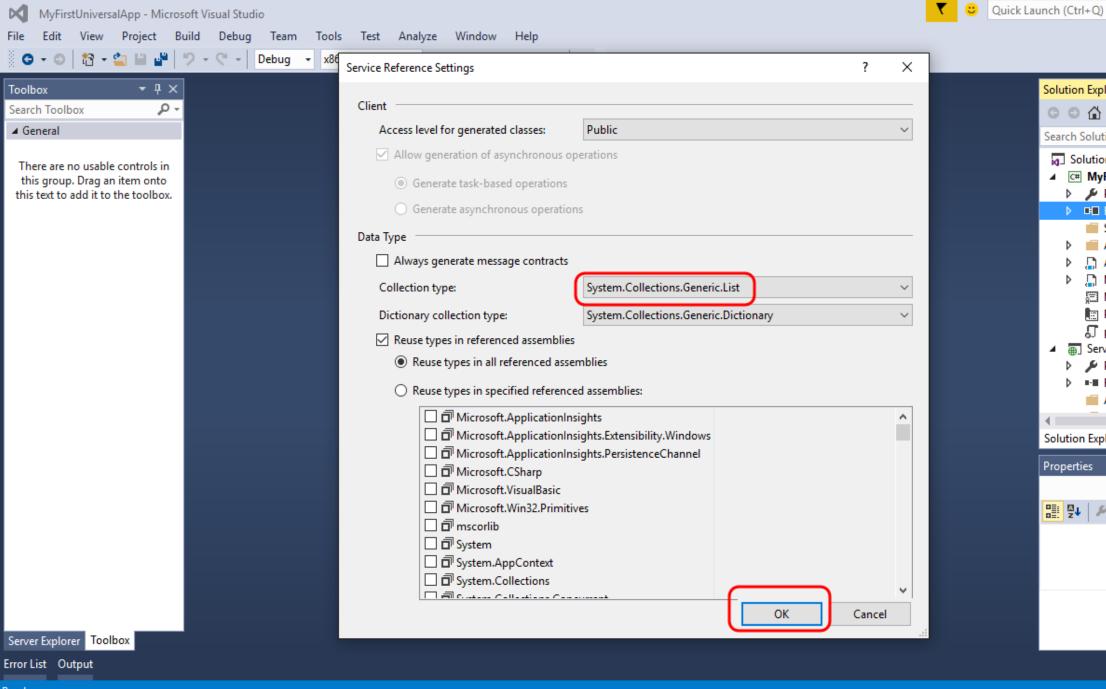


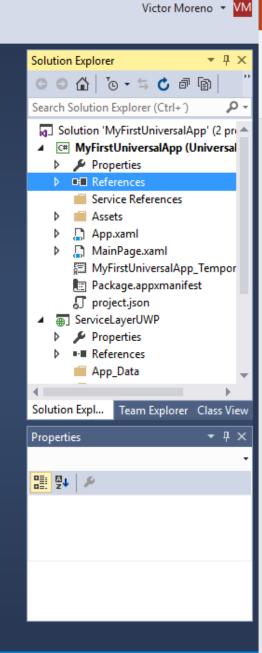
Calling WCF Service

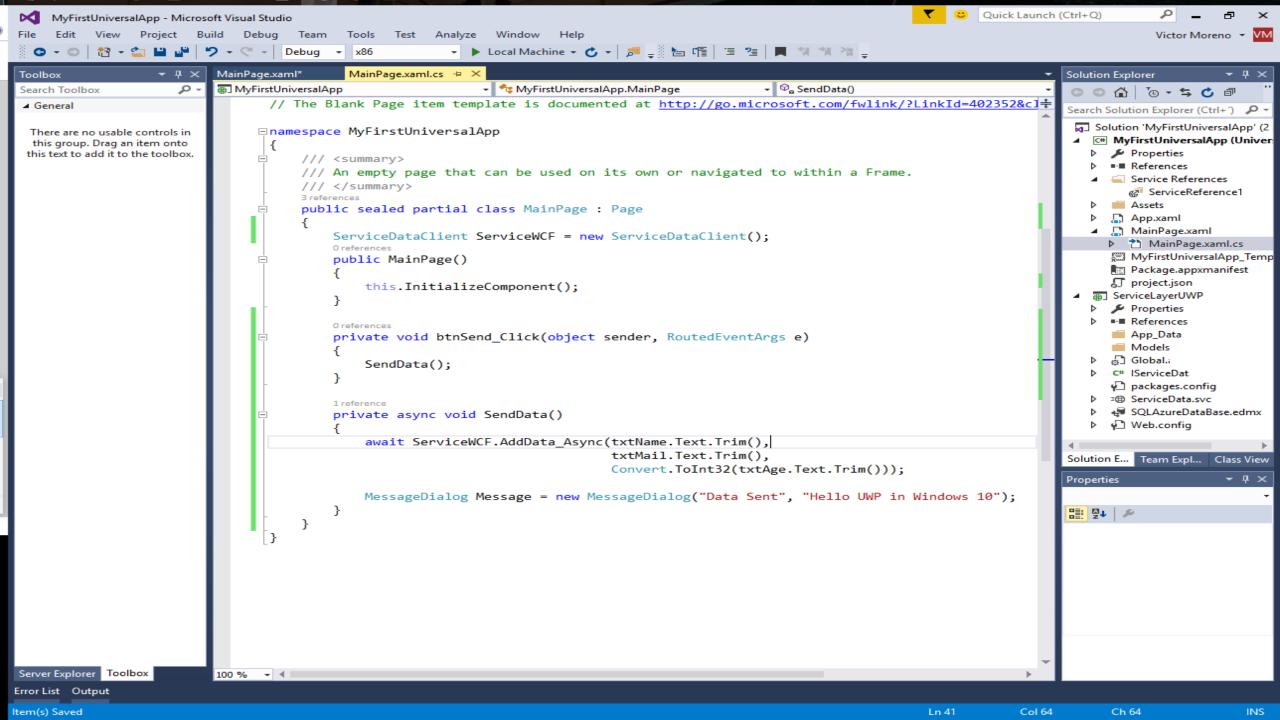
Now that we have our WCF service programmed, we need to link it to our "Universal Windows Project" and develop the corresponding operations.

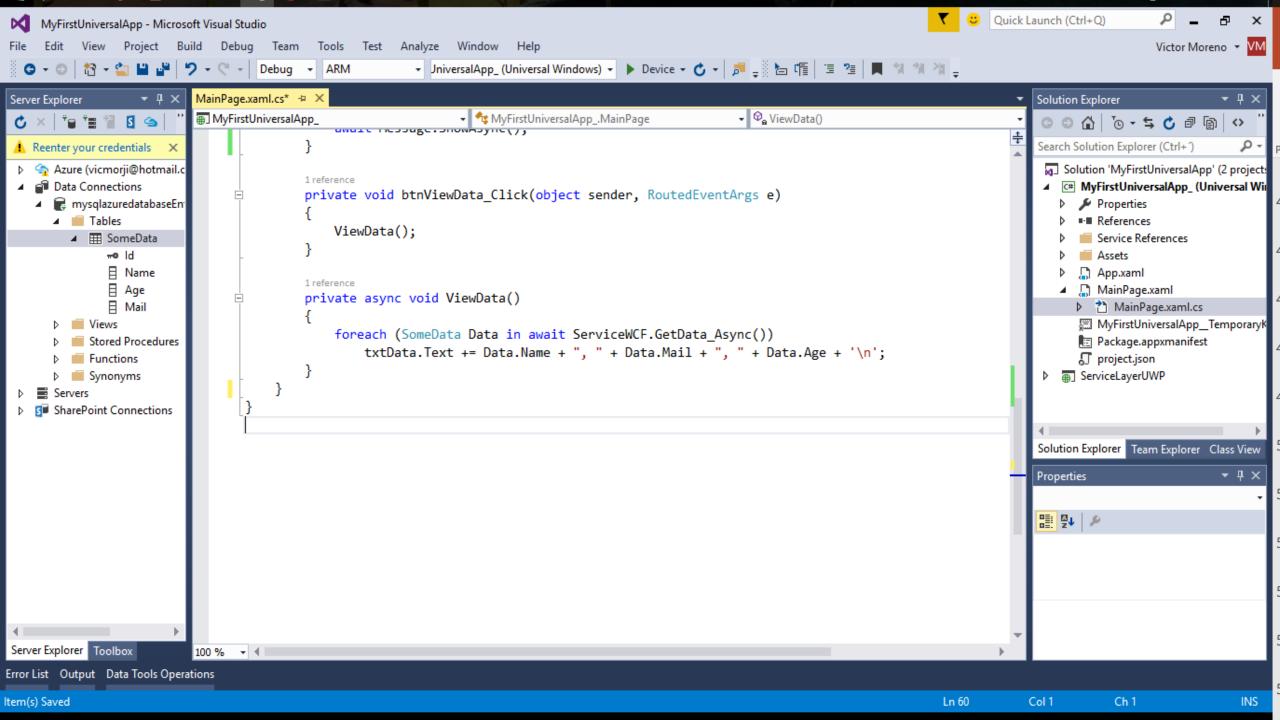








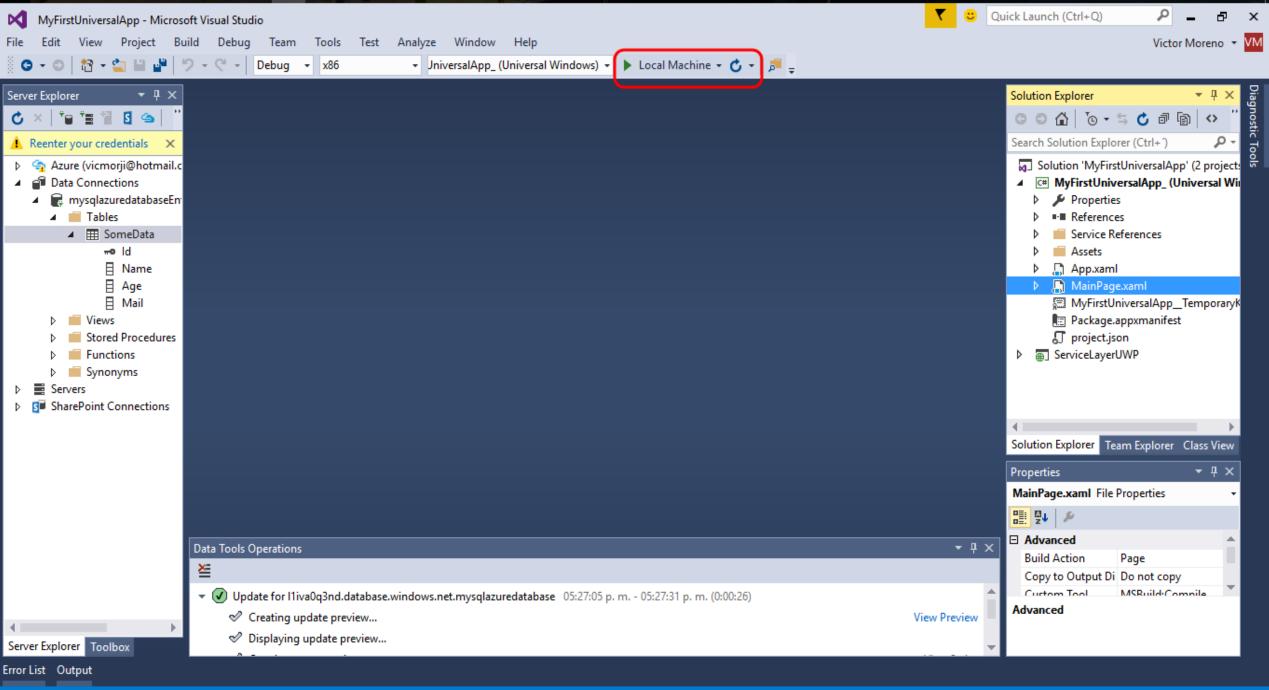


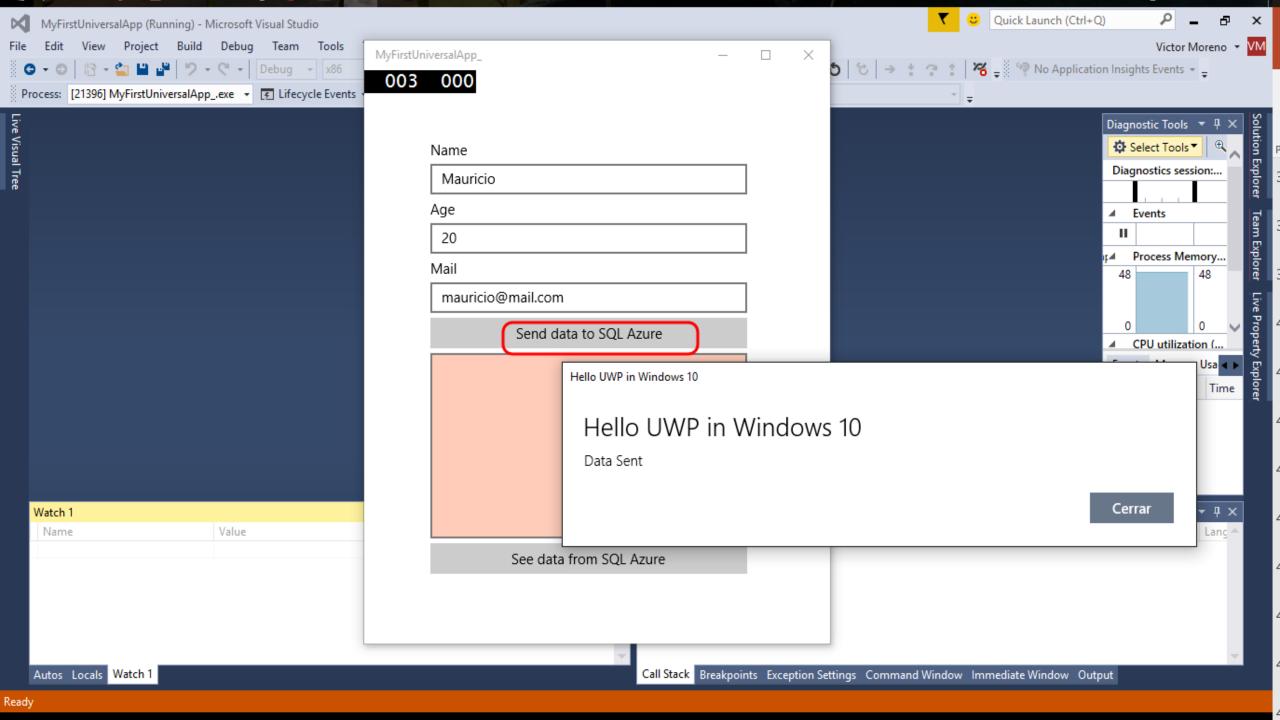


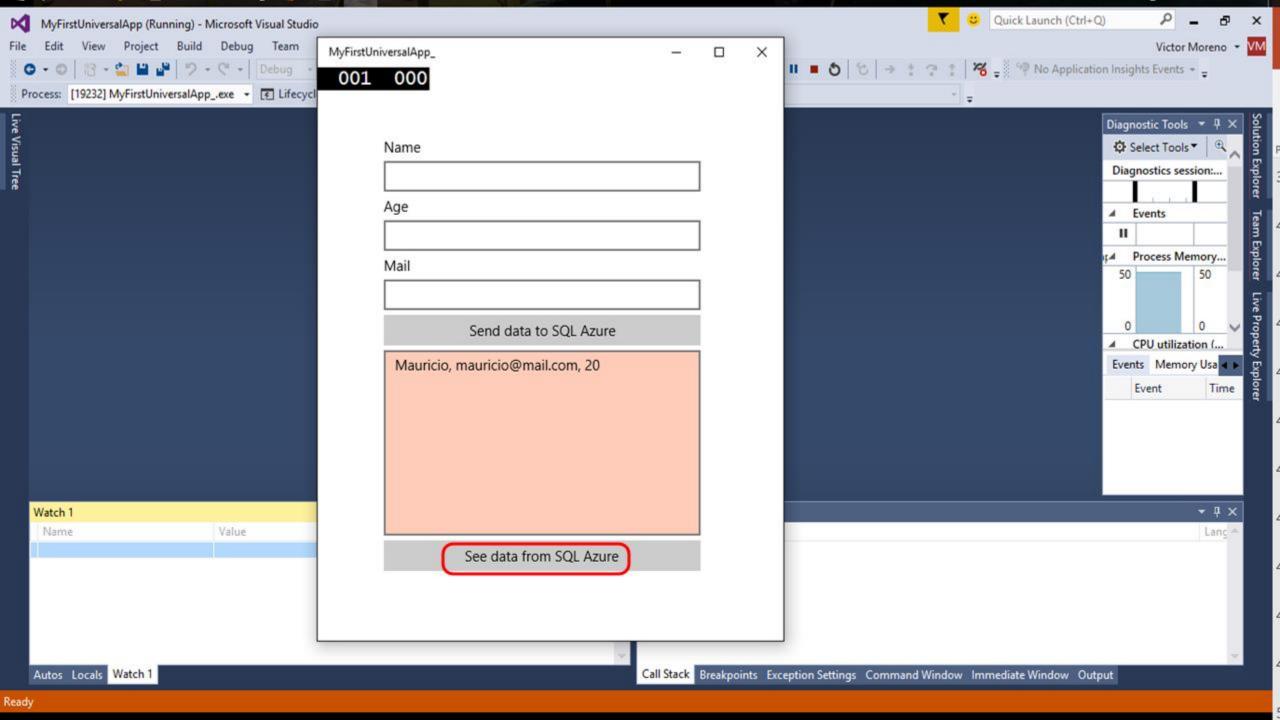
Running our application

Ending to develop our project, now we see how it works in:

PC



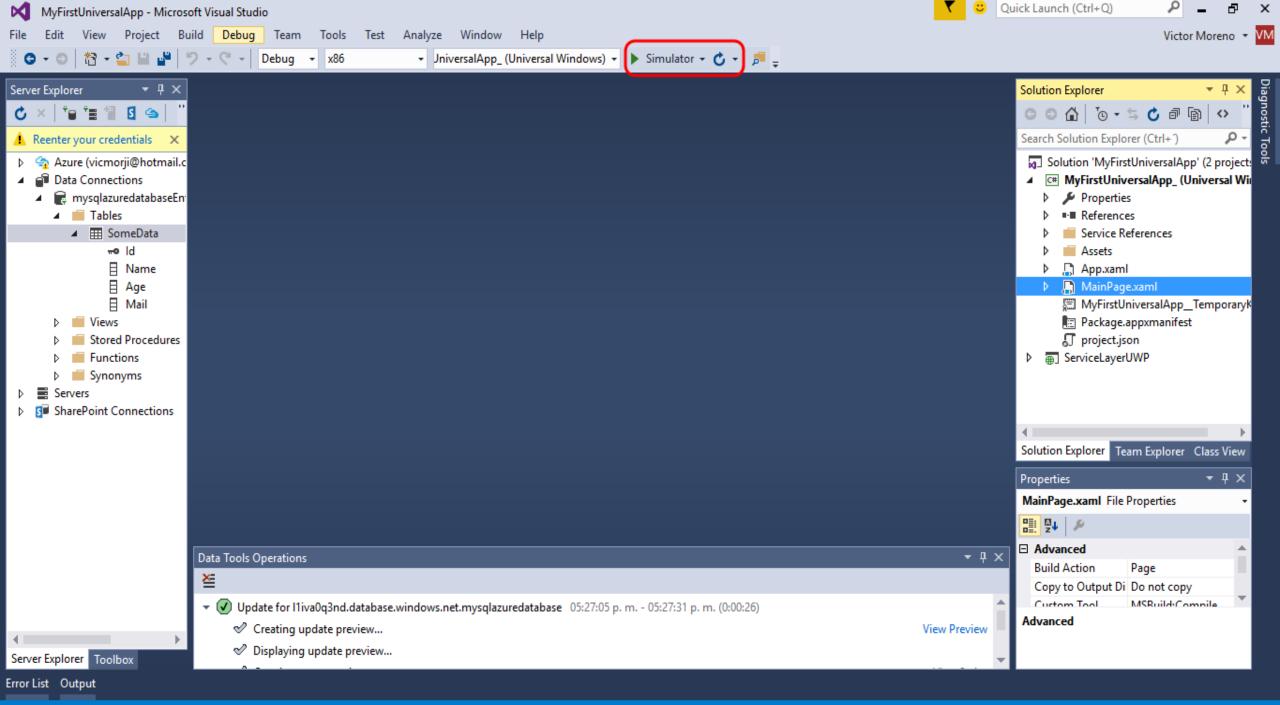


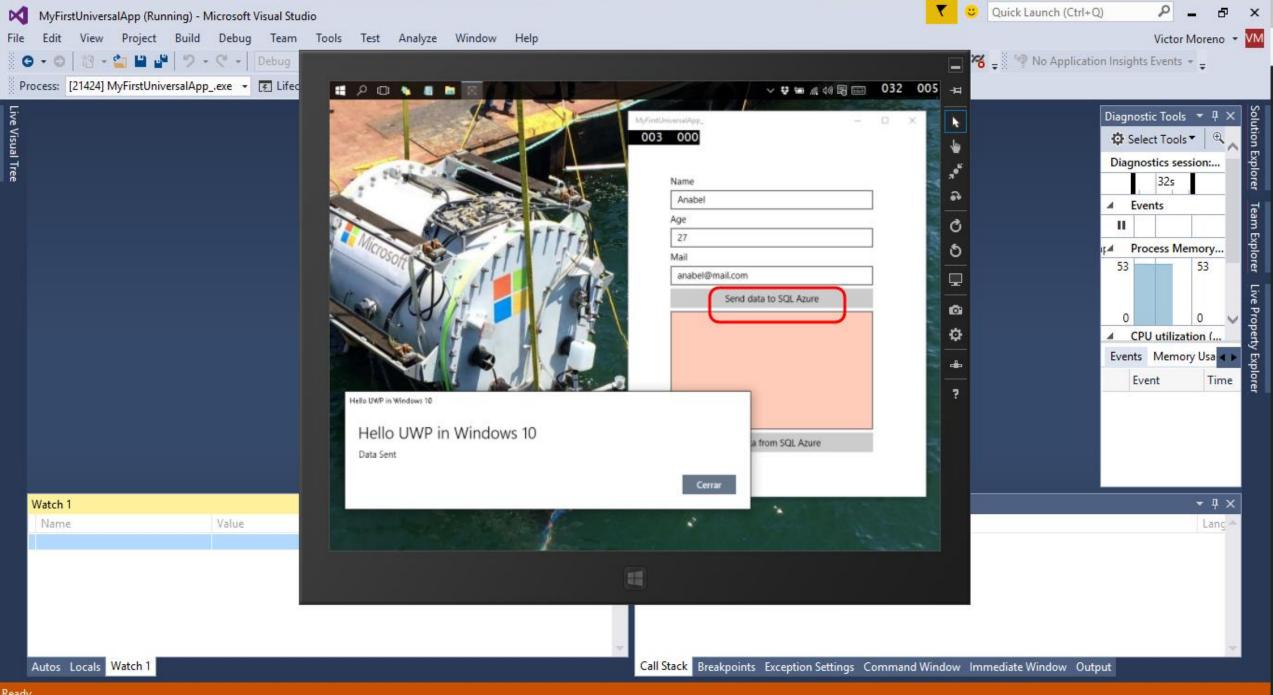


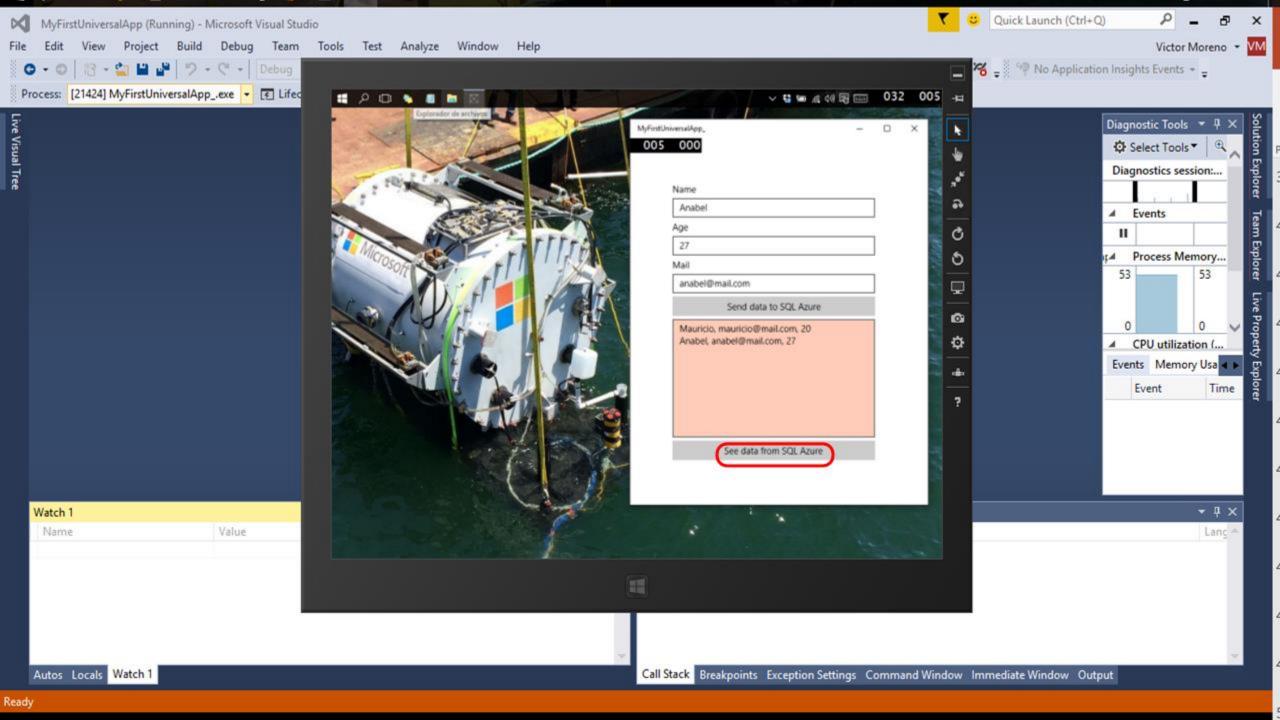
Running our application

Ending to develop our Project, now we see how it works in:

Tablet



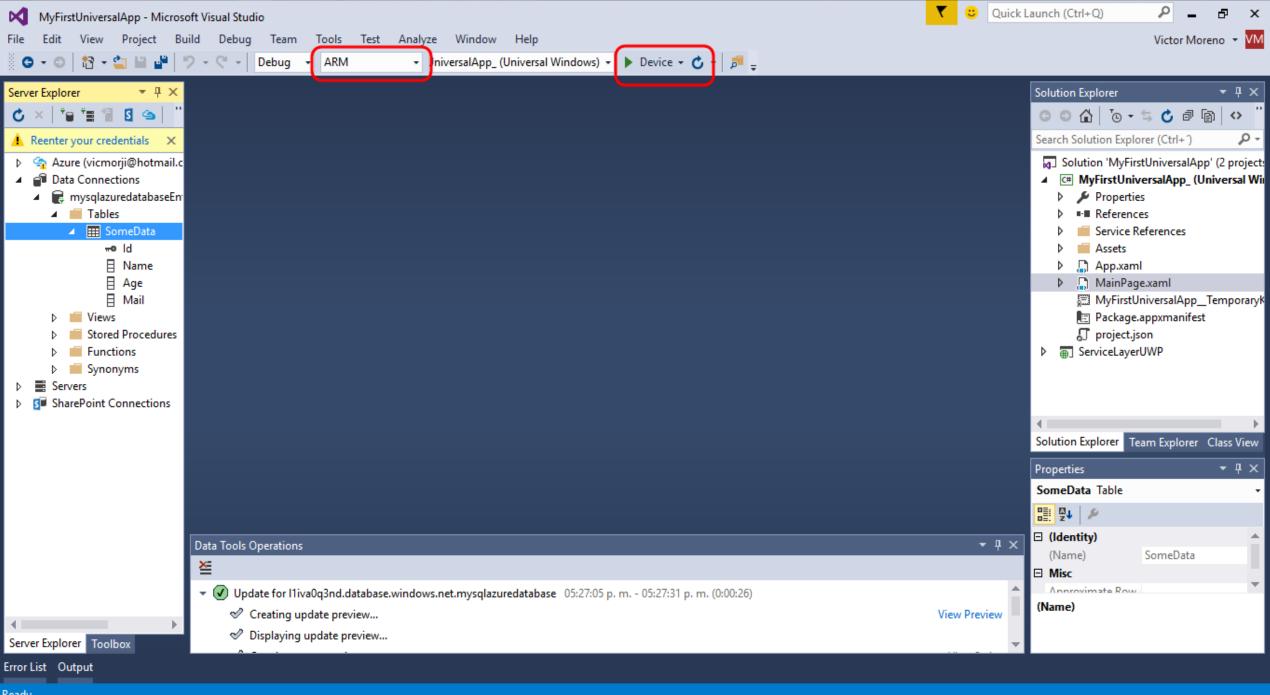




Running our application

Ending to develop our Project, now we see how it works in:

• Windows Mobile 10 (Here I'm using a physical pone, but also you can use a simulator).



Ready

Name
Marisol
Age
26
Mail
marisol@mail.com
Send data to SQL Azure
See data from SQL Azure

Conclusions

As you can realize, was used a same code to execute in different devices, this is one of the features more powerful of the universal windows apps.

You can download this project directly from GitHub:

https://github.com/vemoreno/MyFirstUniversalWindowsApp



Víctor Moreno @vmorenoz http://blogs.itpro.es/eduardocloud 

