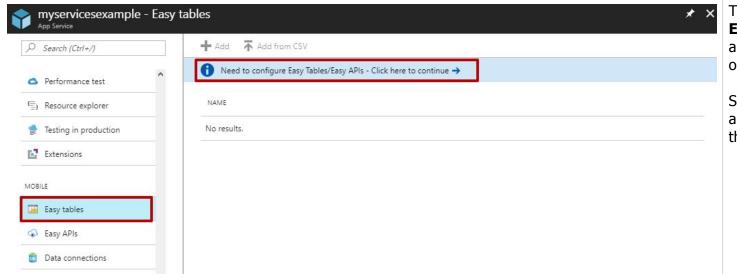


By clicking the Create button, the process of deploying the service on the cloud will begin.

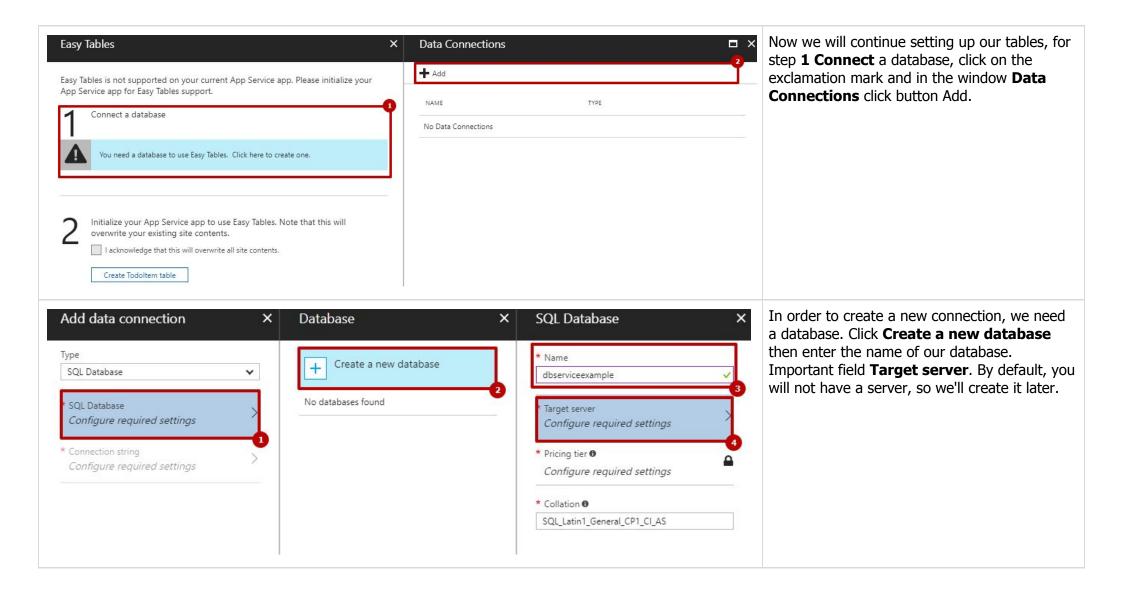
After the end of this process, the service will be ready for use.



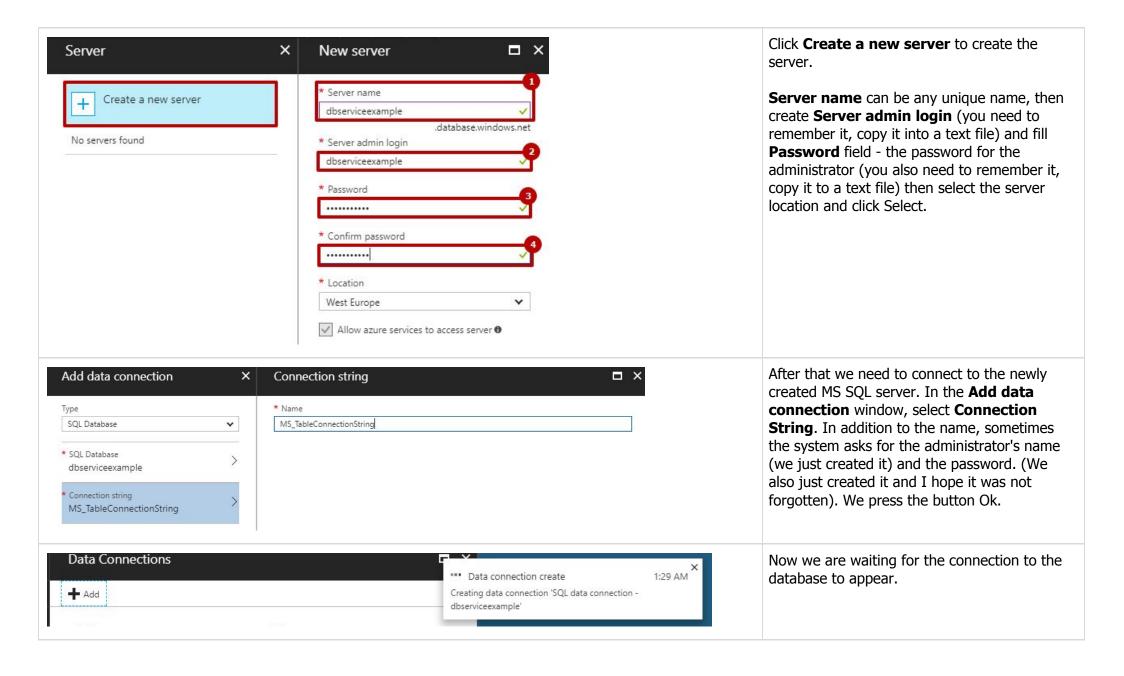
To store the data of our game we will use **Easy Tables**. First, we need to quickly create an **MS SQL** database in which we will store our tables.

Select in the menu on the left **Easy Tables** and then **Click to continue**, click the arrow to the right, as in the screenshot.

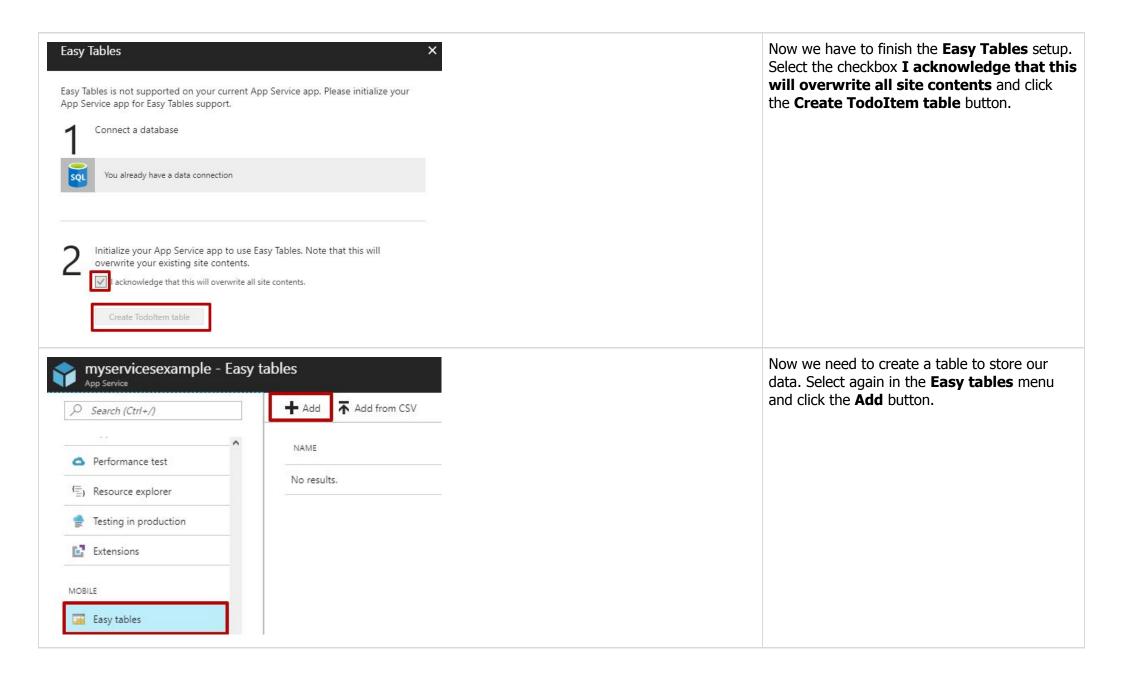




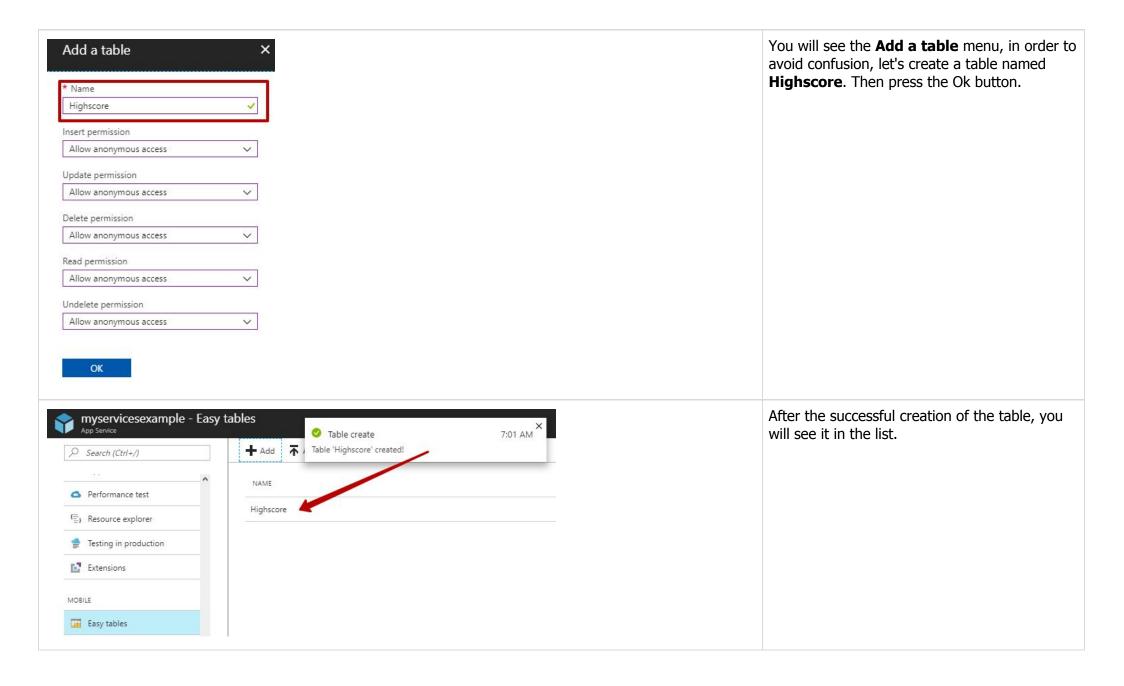




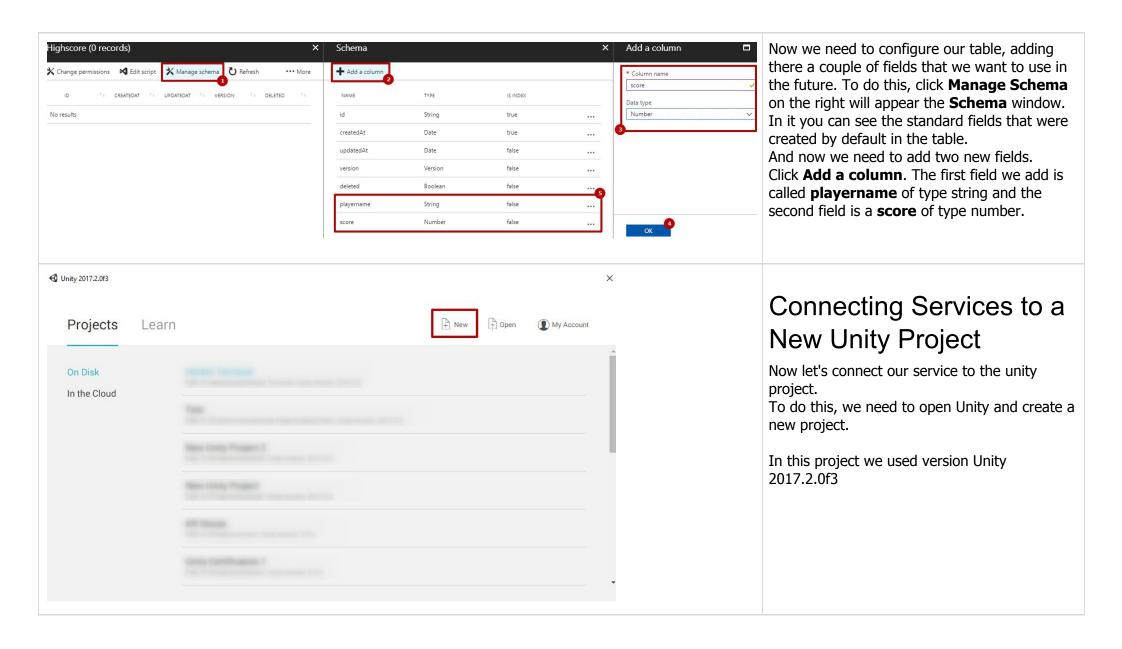




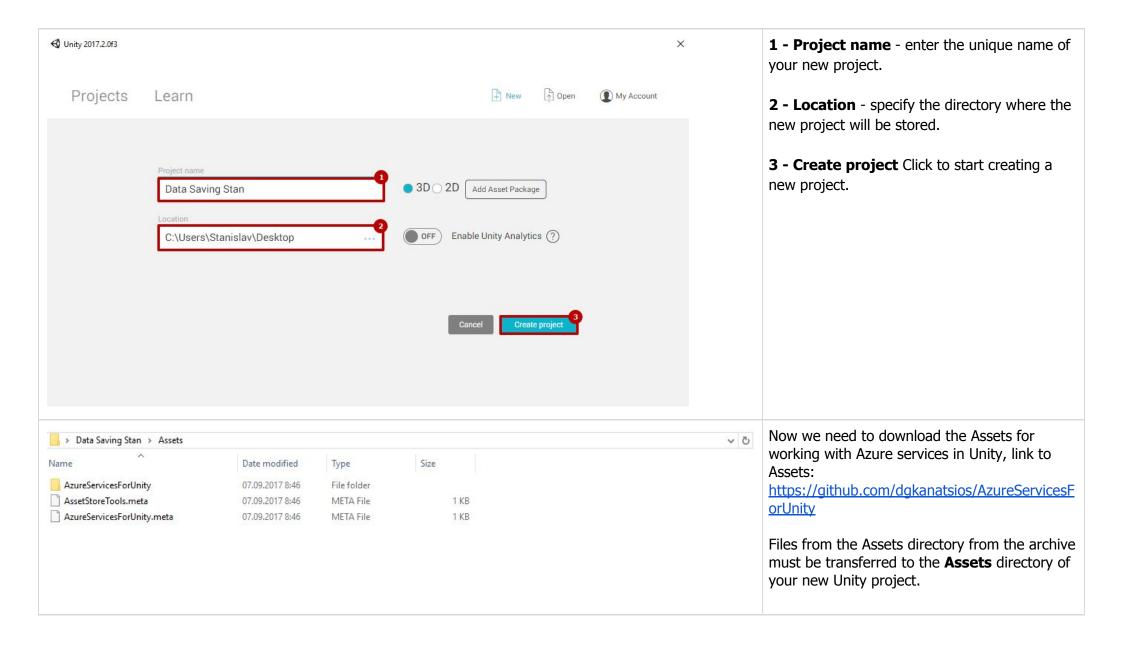




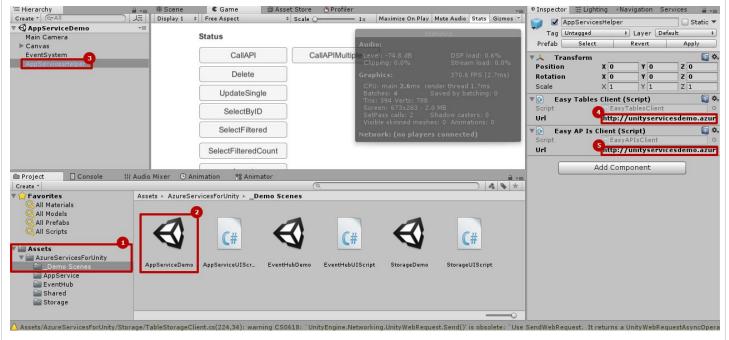












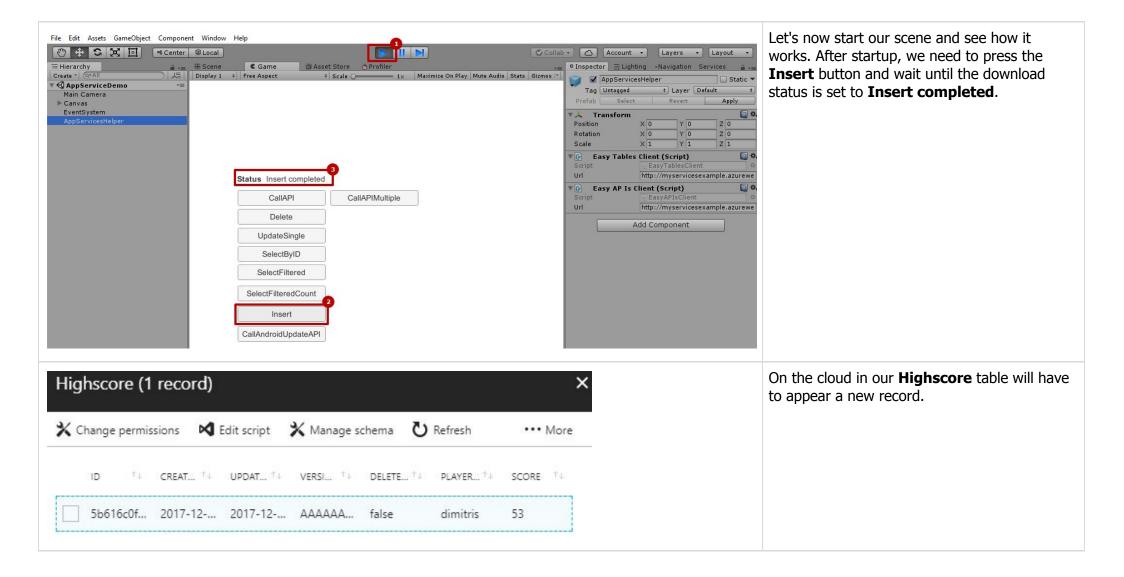
After we add the Asset to the project, it must be configured. Open the first demo scene with the name "AppServiceDemo", as shown in the screenshot, then select GameObject with the name "AppServiceManager" and in the inspector we see two scripts for the settings. We are interested in the EasyTablesClient script, we insert the path to our service, which you can take from Azure, as shown below.



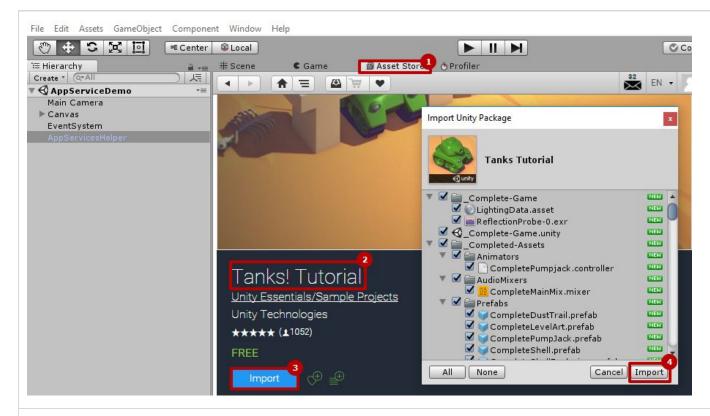
The path to the service you can take by contacting the previously created service **App Service** on the **Overview** tab.

Important: At this moment we are working with a demonstration project. When you work in your game project with Easy Tables, do not forget to put the **EasyTablesClient** script on the scene.

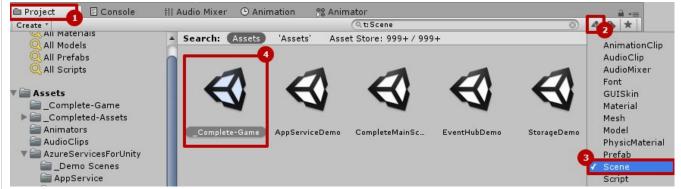






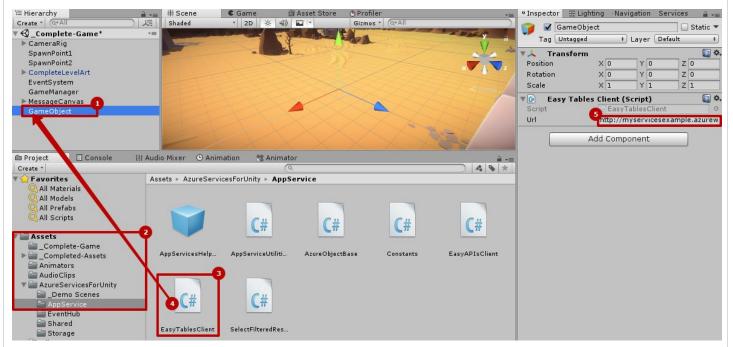


An excellent example of the official free tutorial unity called **Tanks!** Tutorial which we download from the **Unity Asset Store**. The screenshot below shows the sequence of actions to load this game into our project. First we open the **Asset Store** window in it in the search for the new **Tanks! Tutorial**, you will have the **Download** button first, when the Asset is downloaded, the **Import** button appears. Then click another **Import** button and wait for it to load into your project.



Let's open the main scene of our project, called "_Complete-Game". To do this, you need to open a filter in the **Project** window and select **Scenes**.



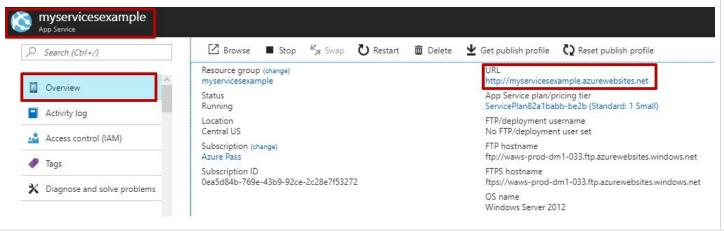


In order for our save script to work in Azure, create an empty **GameObject** by right-clicking on the empty area of the **Hierarchy** window on the left side of the Unity

It's time to move the **EasyTablesClient** script to it (you can quickly find it by analogy of the scene search, specifying Scripts as a filter, or find it in the **Assets** \

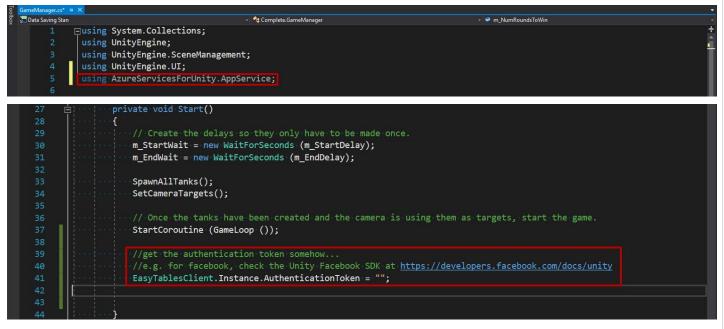
AzureServicesForUnity \ AppService directory)

And now insert the URL of our service into the **URI** string of our script.



The address of our service has not changed and you can copy it by analogy with the previous example.





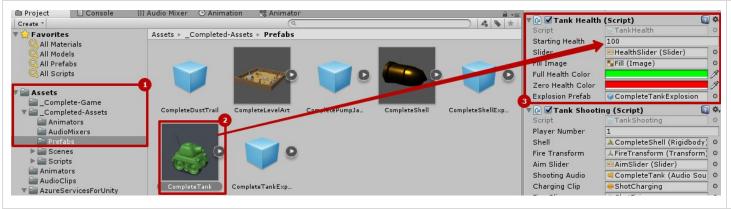
Let's now go into the **GameManager** script (it's in the **Assets \ _Completed-Assets \ Scripts \ Managers directory**) and add a couple of lines associated with the authorization.

We have to specify a namespace using AzureServicesForUnity.AppService;

In the current example, we leave this field empty.

Authorization code:

//get the authentication token somehow...
//e.g. for facebook, check the Unity Facebook SDK at https://developers.facebook.com/docs/unity
EasyTablesClient.Instance.AuthenticationToken = "";



In our example of using **EasyTables** we will write in them the winner of the current round. In fact, it's possible to record any important game data such as progress, settings, player profile data. In order to understand which of the tanks won, his health should be zero, based on this we will modify the **TankHealth** script.



```
Complete.TankHealth

<u>□using</u> UnityEngine;

using UnityEngine.UI;
  using AzureServicesForUnity.AppService;
  using AzureServicesForUnity.Shared;
        private void OnDeath ()
           // Set the flag so that this function is only called once.
            m Dead = true;
           // Move the instantiated explosion prefab to the tank's position and turn it on.
           m_ExplosionParticles.transform.position = transform.position;
            m_ExplosionParticles.gameObject.SetActive (true);
           // Play the particle system of the tank exploding.
           m_ExplosionParticles.Play ();
           // Play the tank explosion sound effect.
           m ExplosionAudio.Play();
            // Turn the tank off.
            gameObject.SetActive (false);
           Send();
        public void Send()
            Highscore score = new Highscore();
            int playerNumber = 1;
            if (GetComponent<TankMovement>().m PlayerNumber == 1)
                playerNumber = 2:
            score.playername = "Player" + playerNumber;
            score.score = 1;
            EasyTablesClient.Instance.Insert(score, insertResponse =>
                if (insertResponse.Status == CallBackResult.Success)
                    string result = "Insert completed: " + insertResponse.Result.id;
                    Debug.Log(result);
                    Debug.Log("Status: " + insertResponse.Status);
            Debug.Log("Sended " + score.playername);
```

Double-click on the name of the script **TankHealth** in the Script field will open it in the editor. In the **OnDeath ()** method, add the call to the **Send ()** method. This method works on the principle of Insert, after the tank dies, it creates a new record in the database, where it writes the name of the winner and just one in the score

```
public void Send()
        Highscore score = new Highscore();
       int playerNumber = 1:
        if (GetComponent<TankMovement>().m_PlayerNumber
== 1)
          playerNumber = 2;
        score.playername = "Player" + playerNumber;
        score.score = 1:
        EasyTablesClient.Instance.Insert(score, insertResponse
          if (insertResponse.Status == CallBackResult.Success)
             string result = "Insert completed: " +
insertResponse.Result.id;
             Debug.Log(result);
          else
             Debug.Log("Status: " + insertResponse.Status);
        Debug.Log("Sended " + score.playername);
```

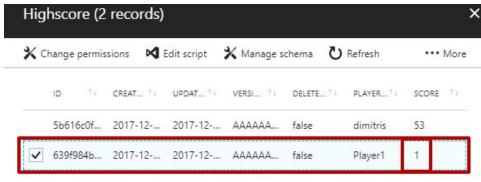




After all the changes, do not forget to save the script. Then go to Unity and start the game.

After one of the tanks wins another in our database in the cloud will have to be a new record with the winner.

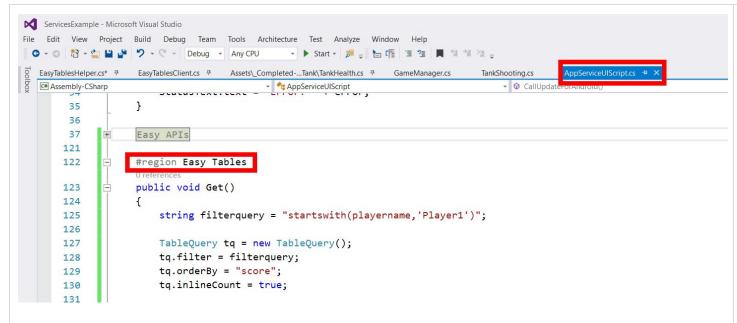
Unity will display the **Insert completed** status in the bottom corner of the console.



Now go to the cloud on **EasyTables** in the **Highscore** table. You should find a new winner's player record.

Below we will consider an example of how you can get data about a particular player, or more precisely how you can easily make a method Select.





Open the **AppServiceScript** script, then find the Easy Tables region, this is a list of methods for working with Easy Tables Api.

Insert - the method adds a new record to the table

Select (Query) - A method for retrieving records from a table using a query.

SelectByID - a method by which you can get a record of its Id

Update - You can modify the data in the table.

DeleteByID - Method of deleting a field in a database by its Id

https://github.com/rio900/unityazureservices

Below is a description of the available methods of working with **EasyTables**, which can be useful in your game.

Below is an example of a method for getting all the records for the first player. The query value can be edited by retrieving specific samples from the database.

```
public void Get()
     string filterquery = "startswith(playername, 'Player1')";
     TableQuery tq = new TableQuery();
     tq.filter = filterquery;
     tq.orderBy = "score";
     tq.inlineCount = true;
     EasyTablesClient.Instance.SelectFiltered<Highscore>(tq, x
=>
        if (x.Status == CallBackResult.Success)
           foreach (var item in x.Result.results)
             if (Globals.DebugFlag)
Debug.Log(string.Format("ID is {0},score is {1},name is {2}",
                item.id, item.score, item.playername));
           StatusText.text = string.Format("Brought {0} rows
out of {1}",
             x.Result.results.Count(), x.Result.count);
        else
           ShowError(x.Exception.Message);
     StatusText.text = "Loading...";
```