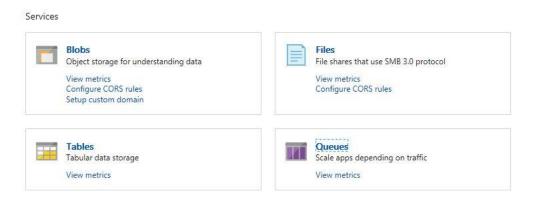
## Exercise. Create a serverless function

In this exercise we will create a simple serverless function that reads messages from a queue and puts them in a table. To do this first create a new storage account or use an existing one. Go to the storage account page and you will see:



Click on Table and create a new table and remember its name. Then go to Queues and create a new one and remember its name. Open the storage explorer and look for these item. Clicking on the table name should give you a picture of an empty table.

## Create the function.

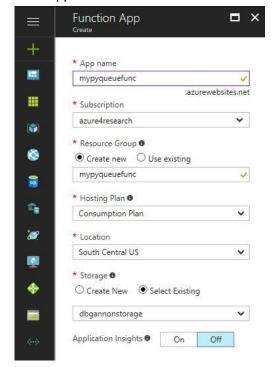
Go back to the portal main page and click + and look for "Function App" and click create. There is a

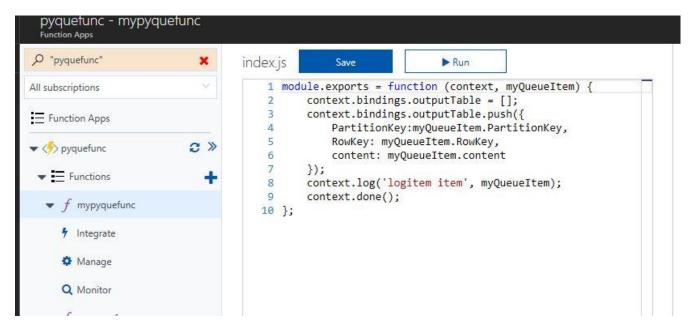
table to fill in like the one on the right. Give it a name and allow it to create a new resource group. For the storage you want to use the dropdown and look for your storage account name. (If your storage account is not in "south central" you can change that location. If it refuses to give you a function there, then you may need to create a new storage account in south central. The important thing is to align this with your storage account.

Click create and wait for the function to appear on your portal home.

You should see it in your resource groups. Follow that link and you will see that it is running.

Go to the functions tab and hit "+". It will ask you to pick one of the templates. At the top where it says "language" select Javascript and pick the one that is called QueueTrigger. This will load a basic template for the function. Now edit the template so that it looks like the following example.

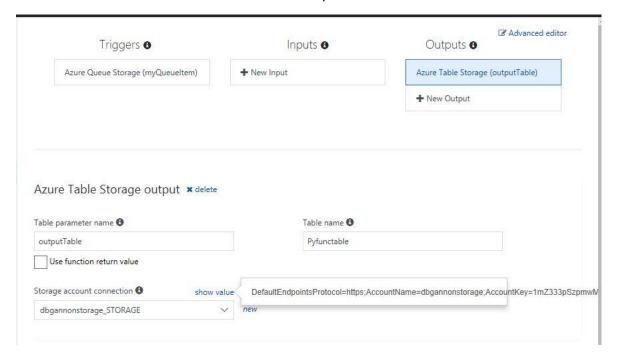




The main difference is that we have added an output table and instructions to push three items into the table. The function is assuming that the items in the queue are of the form

{'PartitionKey': 'part1', 'RowKey': '73', 'content': 'some data '}

Next we need to tie the queue to our queue and the table to our table. So click on "Integrate" on the left. You need to fill in the form so that it ties it to your stuff as illustrated below



You should see your storage account in the dropdown menu. Select it. And they add the Table name. You need to do the same for the AzureQueueStorage.

Once this is done and your function is saved and the system is running your function should be instantiated and invoked as soon as you send it queue items. For that we have a simple python script in a Jupyter notebook.

Login to your datasci vm and do

\$ cd notebooks

\$ wget https://SciEngCloud.github.io/py-functions-queue-driver.ipynb

You will need to fill in your account key for the storage account, but then you should be able to step through the rest. Your storage account should look like this:

