

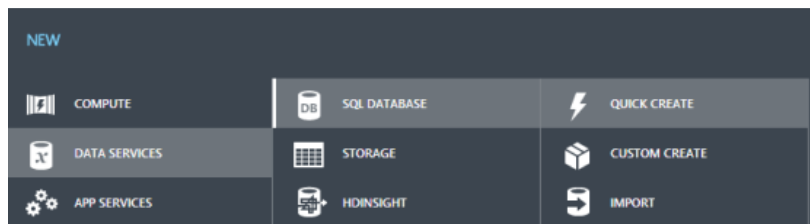
Restore Local Database to Azure Database

On 23 July 2014 00:50:20 by Dirk Strauss

Azure Databases – What do you need to do if you have a local database and you want to deploy it to [Azure](#)? I saw while researching for this article that there were a few ways to do this, but the method I’m going to show you is a nice quick and easy method.

Azure Databases Created From Local Copy

To illustrate this I created a SQL database on Azure. Just select the Quick Create option.



Enter a suitable name for the database, select your subscription and server.

A screenshot of the 'CREATE SQL DATABASE' form in the Azure portal. The form has three main input fields: 'DATABASE NAME' with the value 'acme', 'SUBSCRIPTION' with a dropdown menu, and 'SERVER' with a dropdown menu. At the bottom right, there is a 'CREATE SQL DATABASE' button with a checkmark icon.


Your newly created database will now be listed under your databases list on Azure. Click on the database name.

sql databases

DATABASES SERVERS


NAME	STATUS	LOCATION	SUBSCRIF
acme	✓ Online	West US	Visual Stu
acme	→ ✓ Online	West US	Visual Stu

You will now see the database dashboard, and to the bottom you will see the server name listed.



Design your SQL database ?

[Download a starter project for your SQL database](#) [Set up W](#)

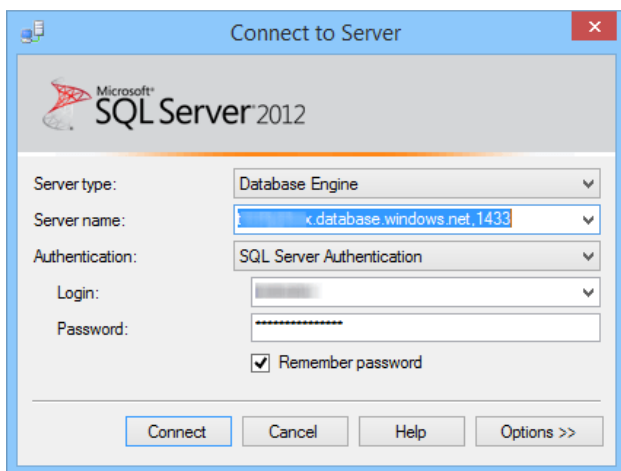


Connect to your database ?

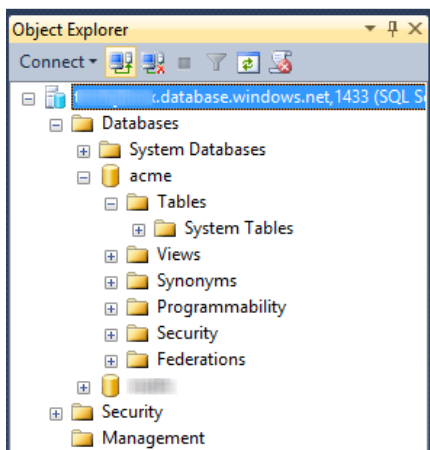
[Design your SQL database](#) [Run Transact-SQL queries ag](#)
for ADO .Net, ODBC, PHP, and JDBC

Server: `xxxxxx.database.windows.net,1433`

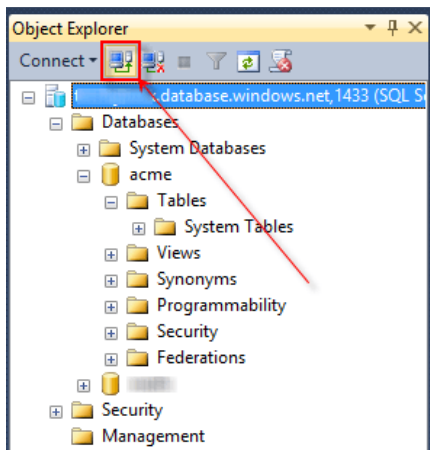
Start your copy of SQL Server Management Studio and connect to your server as set up on Azure, entering the server name and Login credentials.



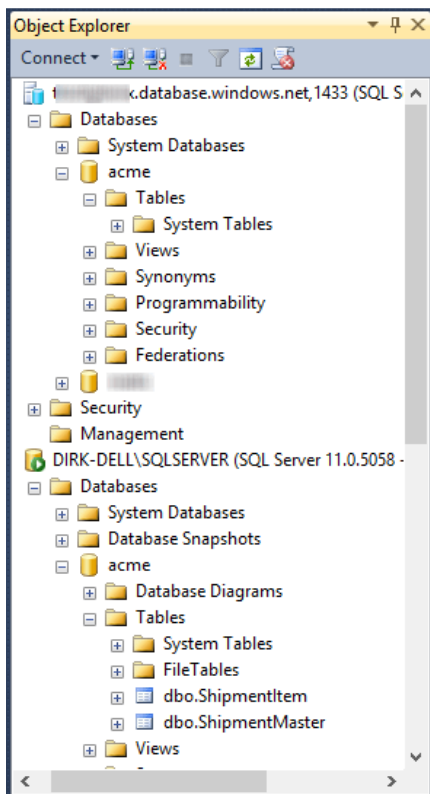
SQL Server Management Studio will now list the database you created earlier on Azure. As you can see, there are no tables yet.



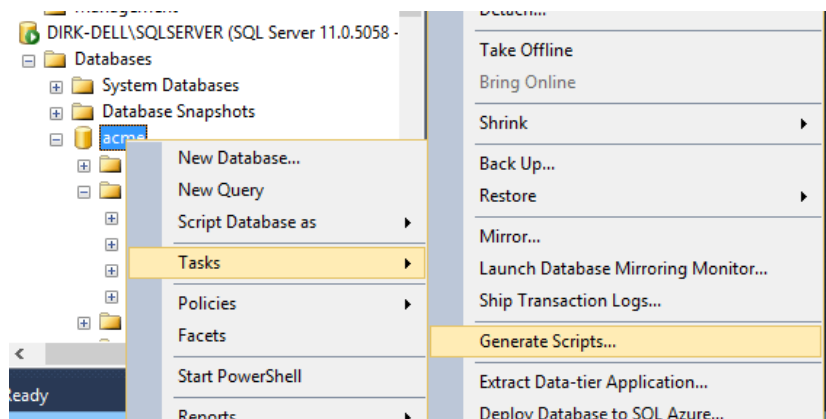
The next step is to connect to your local SQL Server instance.



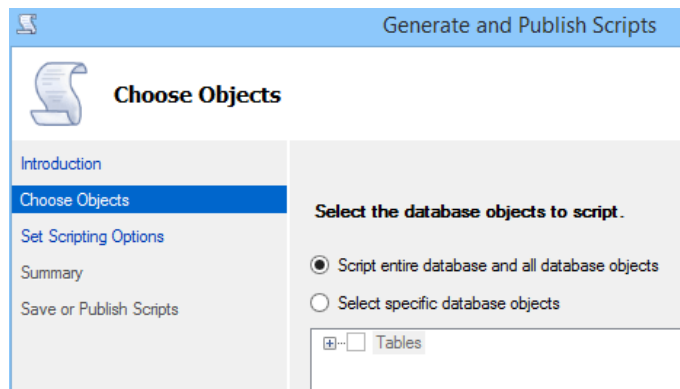
Once you have done that, you will see your Azure and the Local SQL Server instance listed. Expanding the local database tables, you will see the tables we want to script on the Azure instance.



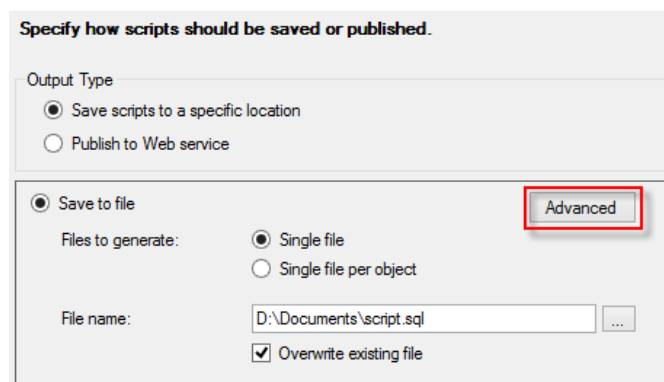
Right click the local database and select Tasks -> Generate Scripts.



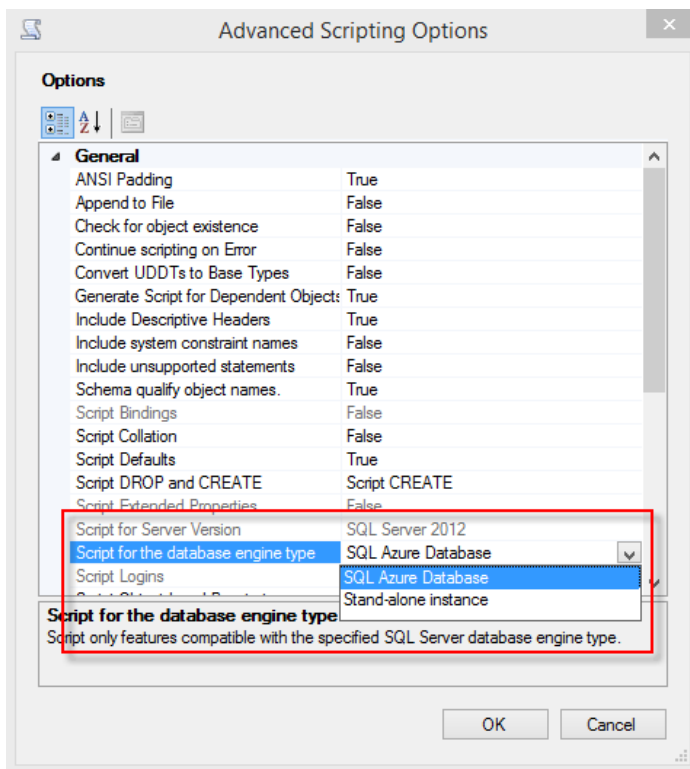
The script generator will now start. In this instance I have selected to script the entire database.



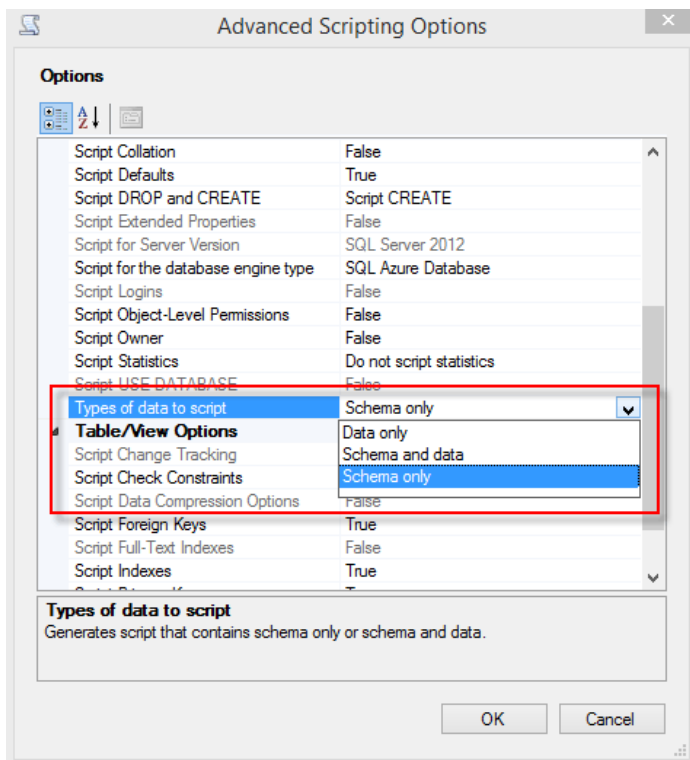
Before you create the script, click on the 'Advanced' button.



Under the advanced options, be sure to select to script the database for SQL Azure.



In my example, I chose to only script the schema but you can [script the schema and or data](#).



After you are done, create the script.

Saving or publishing scripts.	
Action	Result
✓ Getting the list of objects from 'acme'.	Success
✓ Preparing dbo.ShipmentItem	Success
✓ Preparing dbo.ShipmentMaster	Success
✓ Save to file	Success

The next step is to select the Azure database in SQL Server Management Studio and drop the script file in the editor window to open the script up against the Azure database.

The screenshot shows the SQL Server Management Studio interface. On the left, the Object Explorer is expanded to show the 'acme' database under 'Databases'. The 'Tables' folder is selected. On the right, the script editor is open, displaying the following SQL script:

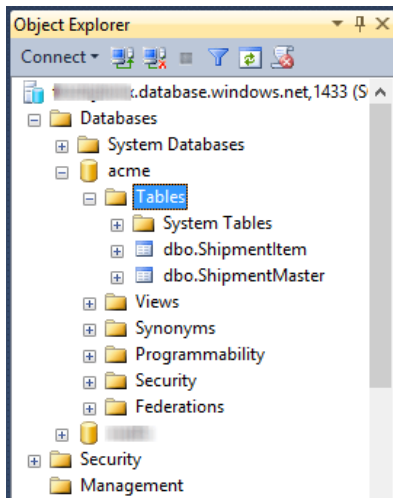
```
script.sql - t... (1351) X
/***** Object: Table [dbo].[ShipmentItem]
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[ShipmentItem](
    [Shipment] [decimal](9, 0) NOT NULL,
    [ItemNumber] [decimal](9, 0) NOT NULL,
    [Status] [char](1) NULL,
    [SalesOrder] [char](20) NULL,
    [OrderLine] [decimal](4, 0) NULL,
    [DispatchNote] [char](20) NULL,
    [DispatchLine] [decimal](4, 0) NULL,
    [Tare] [decimal](9, 0) NULL,
    [Pack] [decimal](9, 0) NULL,
    [StockCode] [char](30) NULL,
    [Quantity] [decimal](18, 6) NULL,
```

Hit F5 and execute the created script.

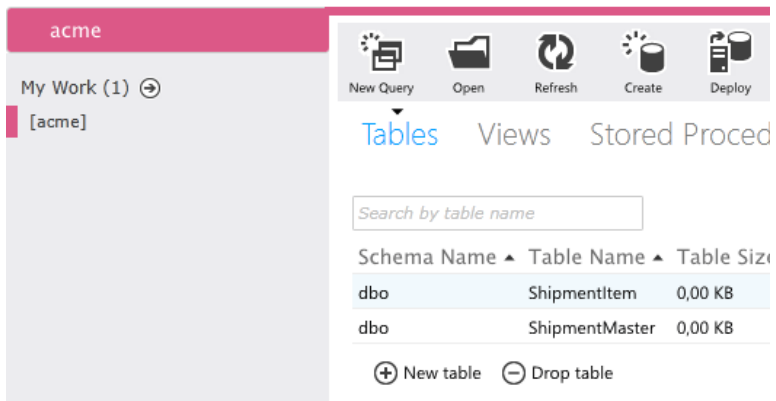
The screenshot shows the same SQL Server Management Studio interface after the script has been executed. The script editor is still open, but the focus is on the 'Messages' pane at the bottom, which displays the following message:

```
100 %
Messages
Command(s) completed successfully.
```

When the script execution completes, you will see the created database tables in the Azure database.



And to make sure that it all worked, log on to your Azure server and view the tables on your Acme database.



As you can see, getting your local database on Azure is really simple and all the tools are built right in to SQL Server Management Studio.