

Original Article

Creating a Single SQL Database Using Azure Portal

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Abstract - In this article, I will be showing how to create a single SQL Database and retrieve the data using Query Editor using Azure Portal.

Keywords - SQL, Database, Azure, Server, Portal, Create, Single.

I. INTRODUCTION

For Azure SQL Database Single database is one resource type. Azure SQL database provides guaranteed to compute size its has own service tier within the DTU-based or vCore-based purchasing model. Azure resource

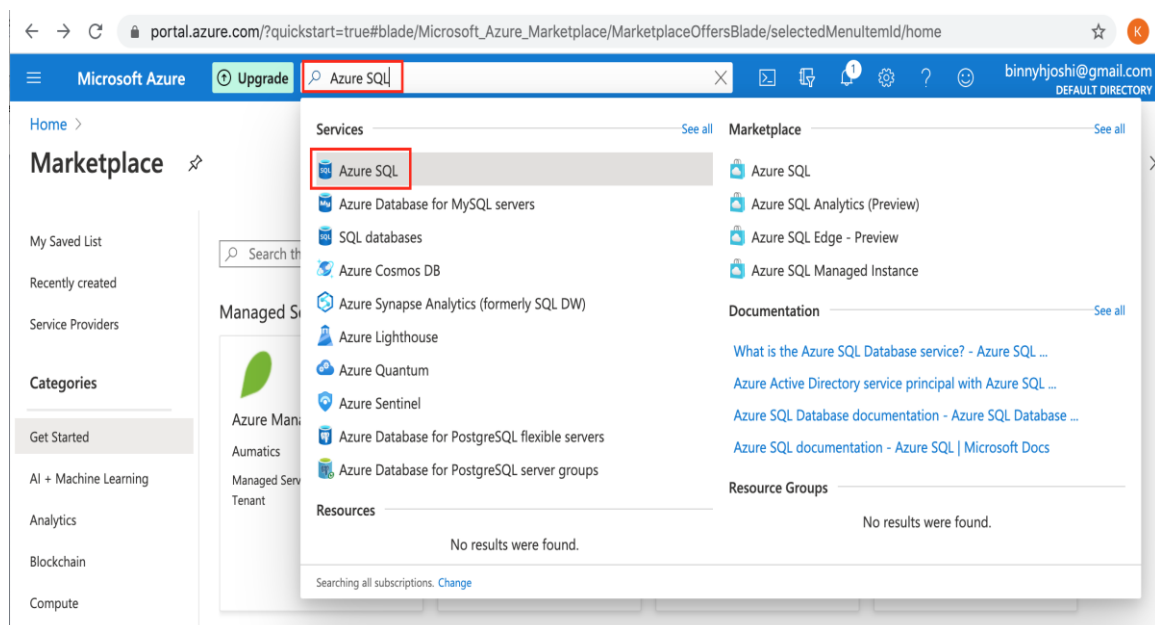
group is used to manage a single database within a server in a specified Azure region.

A. Prerequisite

You will need an Azure free account, and you can create one from here.

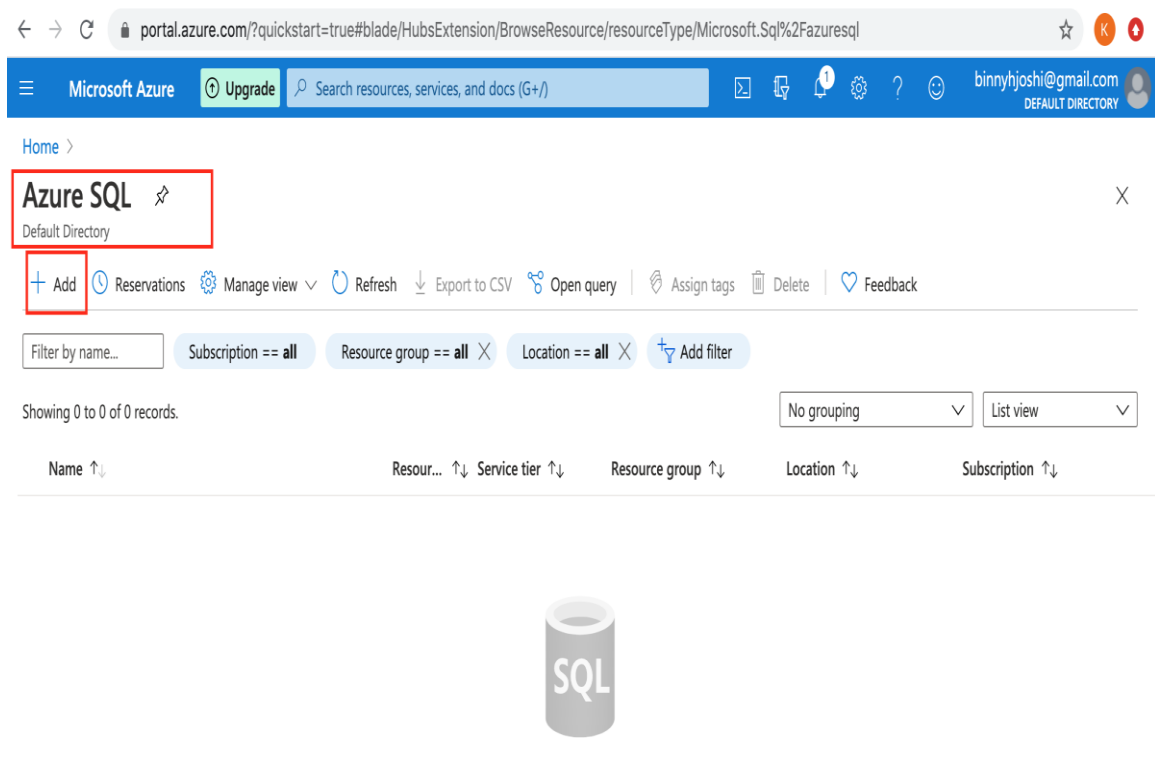
B. Create a Single Database

To create a Single database, you can use Azure portal menus and screens. Once you login into your free Azure account, from the search bar, search and select “Azure SQL”, as shown in figure a.

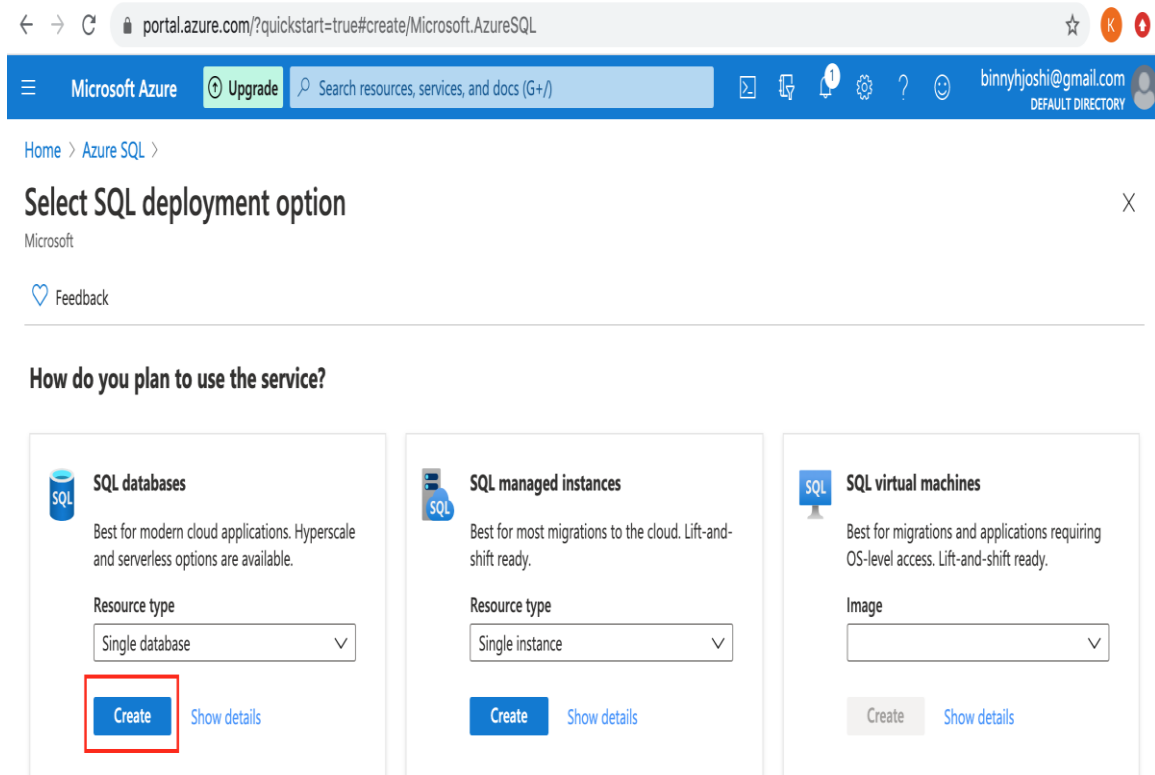


Once you select option “Azure SQL”, you will land on the Azure SQL home page. Click on Add button.

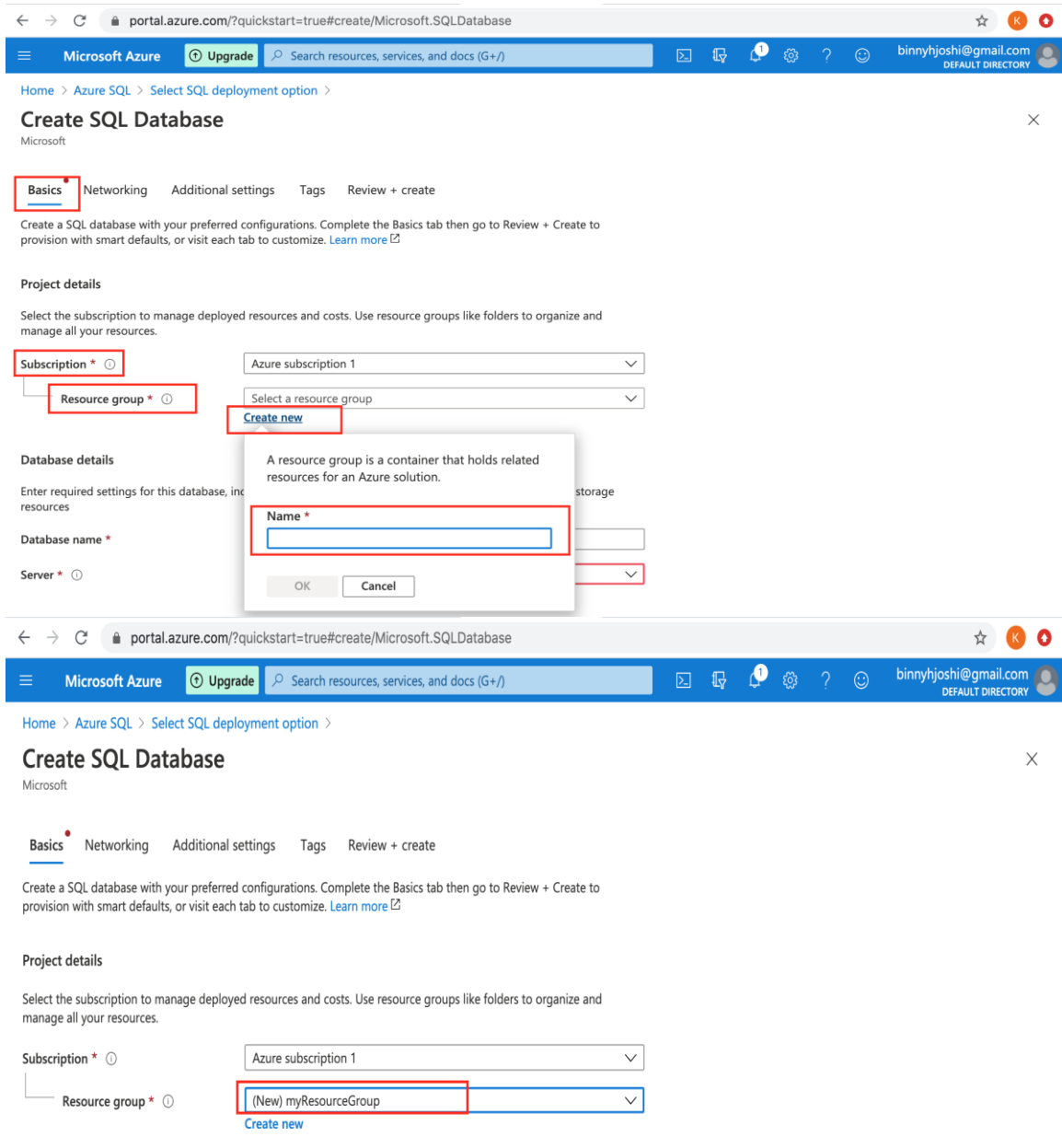




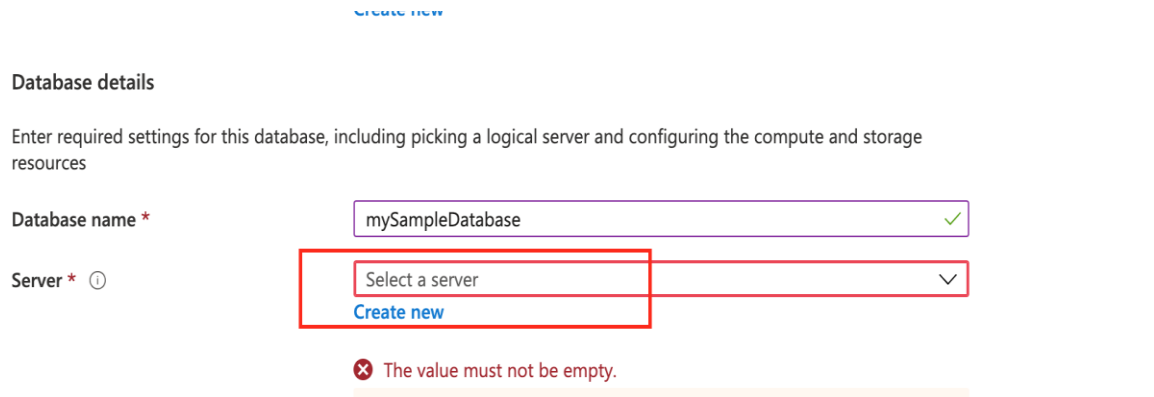
On the Select SQL Deployment page, select the option “Single Database” under Resource Type and Click on the “Create” button. To view more information about the Single Database, you can click on Show Details.



You can select the correct Azure Subscription to manage deployed resources and costs and choose resource group if you have already created one or click on Create New.



Under the Database details section, you will need to Enter the Database name and select the existing Server if you already have one or Create a New Server name by clicking on Create New. Enter the unique name to create New Server. Create Server Admin login with username and password. If you want to replicate over different regions, you can select the Location and click the OK button.



New server ×
Microsoft

Server name * ✓

Server admin login * ✓

Password * ✓

Confirm password * ✓

Location * ▼

Document the server admin login and password so you can log in to the server and its databases. You can reset your username and password on the SQL server page after database creation. Select the server name on the database Overview page to open the SQL server page.

Select Public Endpoint under Connectivity method to configure connectivity to your Server on Networking Tab.

Select Current Client IP Address to “Yes” and click on the Next Additional Settings button to set up Firewall rules

[Home](#) >

Create SQL Database

Microsoft

Basics **Networking** Additional settings Tags Review + create

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'binnysqlserver' and all databases it manages. [Learn more](#)

Network connectivity

Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. [Learn more](#)

Connectivity method * ⓘ

No access

Public endpoint

Private endpoint



Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server *

No Yes




Add current client IP address *

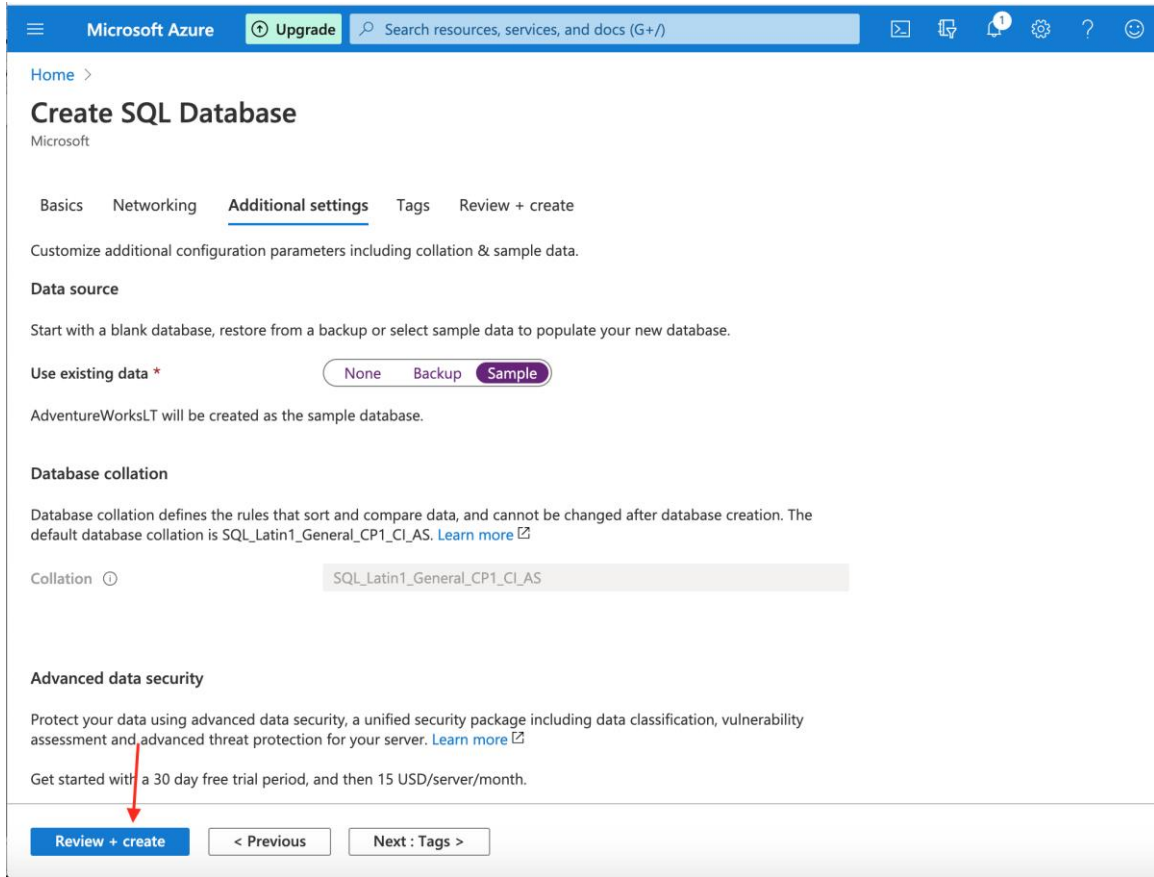
No Yes



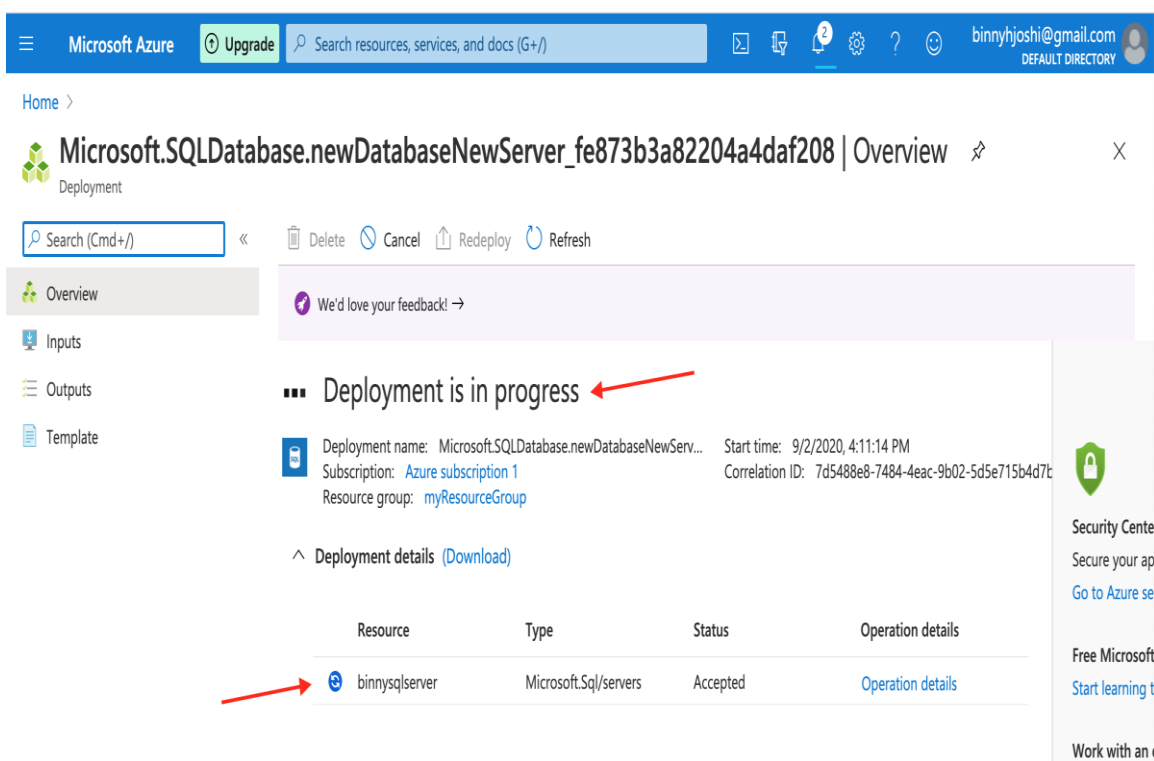
[Review + create](#) [< Previous](#) [Next : Additional settings >](#)

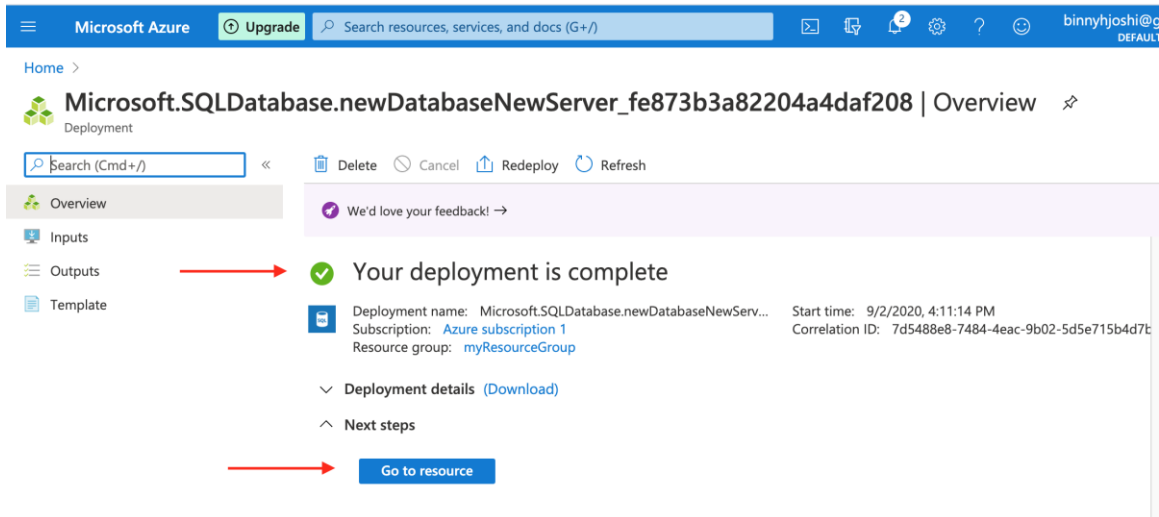


Select the default Existing data as the data source. On the Additional Setting Tab, It will create Adventure Works LT as the sample database and click on the “Review + Create” button.



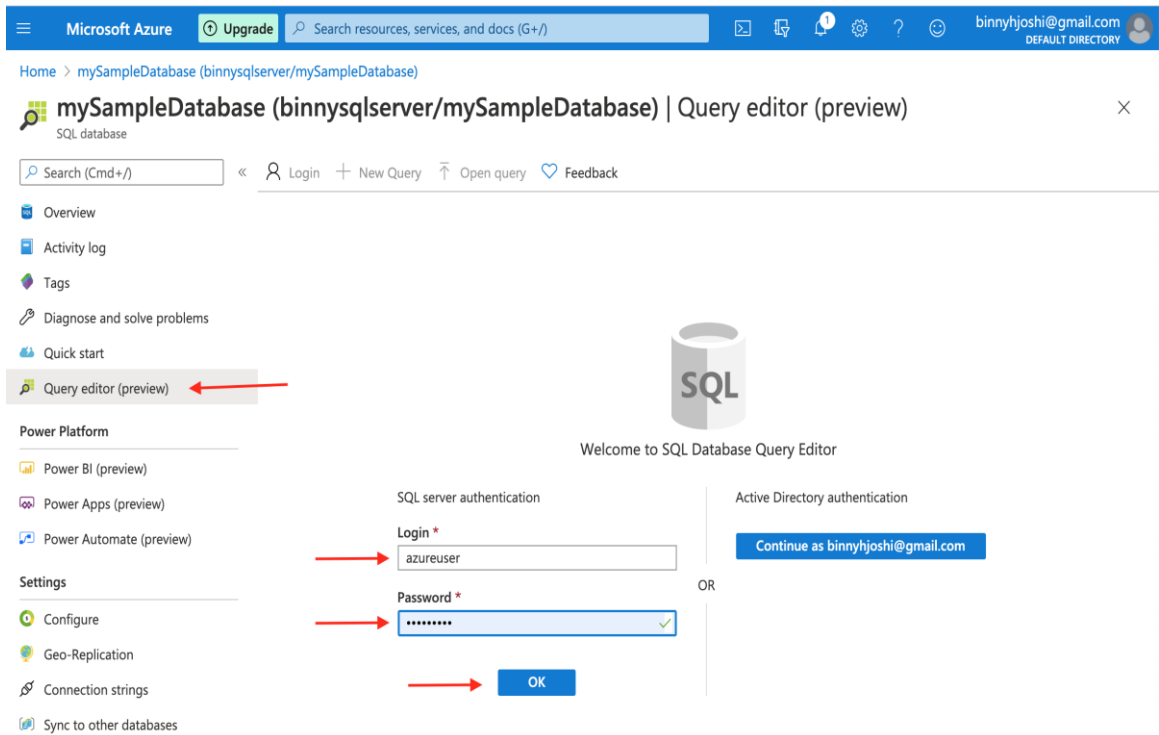
When you click on the “Create” button, you will see the Database is being deployed. It will take some time to deploy your Database. Once it is deployed, click on “Go to Resource” to Query data from Database.





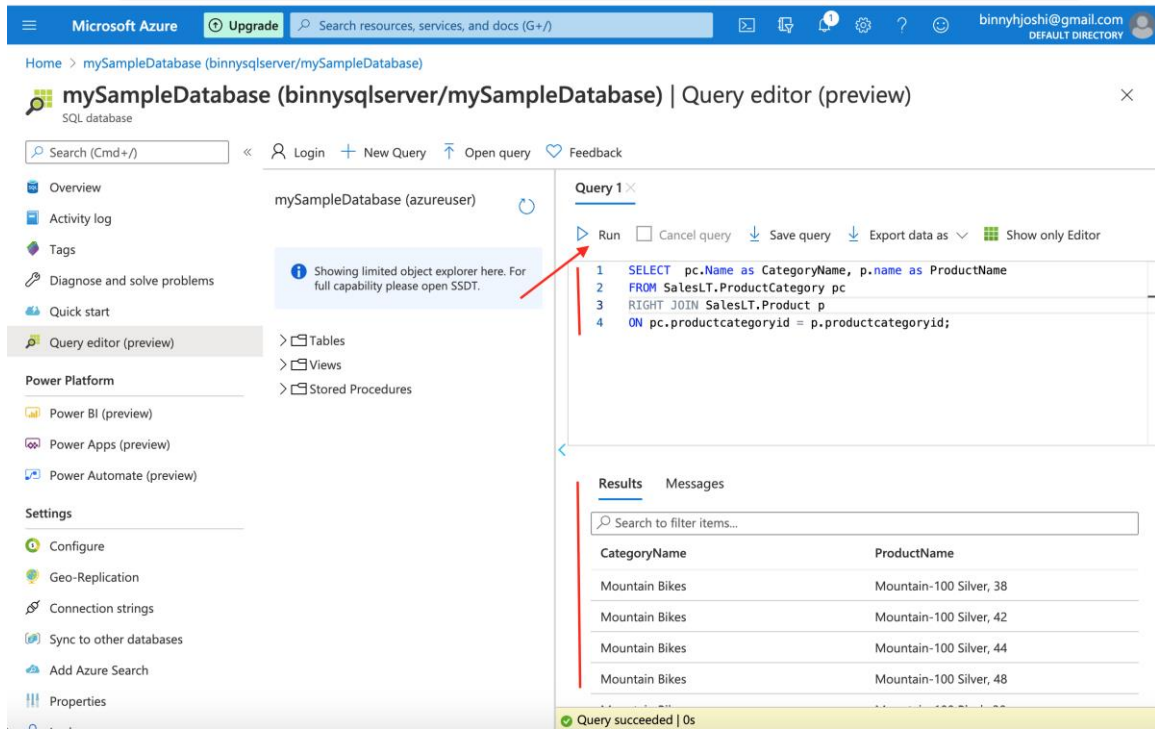
C. Query Editor to Access the data from Database

Once the Database is connected, you will need to Query the Database. Click on Query editor Preview and Enter the server details, user name and password. Click on the OK button.



When you are on the Query editor page, write a query to fetch the data from Database. To execute your query, you can click on the Run button. There are other several buttons given on the query editor page like Cancel, Save, Export and Show only editor page.

You can view your result in the result window.



If you want to discard your unwanted changes, simply Close the Query editor page.

CONCLUSION

Azure SQL database is used to build modern cloud-based apps, and it gives maximum capabilities, different deployment options, predictable performance high –availability and machine learning.

REFERENCES

- [1] <https://docs.microsoft.com/en-us/azure/azure-sql/database/single-database-overview>