

## Try it out Objective

Use this hands-on to create an SQL server, Azure SQL database, and connect it through azure query editor.

### The goal

The following are the goals of this hands-on

1. Create a resource group.
2. Understand the process of creating Azure SQL server
3. Create Azure SQL database
4. Create firewall rules to allow access to SQL server
5. Connect the database via query editor
6. Connect the database via client tool
7. Terminate Resources

### A. Hands-On: Create resource group

1. Open the Azure management console at <https://portal.azure.com/?quickstart=True#home> (you will be required to sign in using your free account)
2. In the Azure search bar paste the value as mentioned below and press enter.

Resource groups

3. Click on Create
  - a. Select Subscription as **Free Trial/Pay-As-You-Go**
  - b. Resource group: paste the value as mentioned below

GL-SQL-RG

- c. Region leave the default value
- d. Click **Review + Create**
- e. Click **Create**

portal.azure.com/#create/Microsoft.ResourceGroup

Profile

Microsoft Azure Search resources, services, and docs (G+)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

## Create a resource group

Home >

Basics Tags Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

**Project details**

Subscription \* ⓘ Pay-As-You-Go ✓

Resource group \* ⓘ GL-SQL-RG ✓

**Resource details**

Region \* ⓘ (US) East US ✓

Review + create < Previous Next: Tags >

## B. Hands-On: Create Azure SQL Server

1. In the Azure search bar paste the value as mentioned below and press enter.

SQL Servers

2. Click on **Create**

- a. Select Subscription as **Free Trial/Pay-As-You-Go**
- b. Resource group as **GL-SQL-RG** (should be already by default)
- f. Server name: paste the value as mentioned below. If the given name is not available, change 01 to 02 or 03.

glsqlserver01

- g. Location: keep the default value
- c. Authentication method select **Use SQL authentication** (should be already by default)
- d. Server admin login: paste the value as mentioned below and press enter.

mbadmin

- e. Provide a password and confirm it.
- f. Click **Review + create**

portal.azure.com/#create/Microsoft.SQLServer

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Microsoft Azure

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DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL servers >

Create SQL Database Server

Microsoft

Basics

Networking

Additional settings

Tags

Review + create

SQL database server is a logical container for managing databases and elastic pools. Complete the Basic tab, then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Pay-As-You-Go

Resource group \*

GL-SQL-RG

Create new

Server details

Enter required settings for this server, including providing a name and location.

Server name \*

glsqlserver001

.database.windows.net

Location \*

(US) East US

Review + create

Next: Networking >

portal.azure.com/#create/Microsoft.SQLServer

Profile

Microsoft Azure

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athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL servers >

Create SQL Database Server

Microsoft

Server details

Enter required settings for this server, including providing a name and location.

Server name \*

glsqlserver001

.database.windows.net

Location \*

(US) East US

Authentication

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Azure AD authentication [Learn more](#) or using an existing Azure AD user, group, or application as Azure AD admin [Learn more](#), or select both SQL and Azure AD authentication.

Authentication method

☐ Use only Azure Active Directory (Azure AD) authentication

☐ Use both SQL and Azure AD authentication

☒ Use SQL authentication

Server admin login \*

mbadmin

Password \*

\*\*\*\*\*

Confirm password \*

\*\*\*\*\*

Review + create

Next: Networking >

portal.azure.com/create/Microsoft.SQLServer

Profile

Microsoft Azure

Search resources, services, and docs (G+)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL servers >

Create SQL Database Server

Microsoft

Basics

Networking

Additional settings

Tags

Review + create

Product details

SQL Database Server  
by Microsoft  
Terms of use | Privacy policy

Estimated cost per month  
No additional charges

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Basics

Subscription

Pay-As-You-Go

Resource group

GL-SQL-RG

Server name

glsqserver001

Authentication method

SQL authentication

Server admin login

mbadmin

Location

East US

Create

< Previous

[Download a template for automation](#)

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fd155ab9e-3e36-4fea-8177-2d277f94e74f%2FresourceGroups%2FGL-SQL-RG%2Fpr...

Profile

Microsoft Azure

Search resources, services, and docs (G+)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

Home >

Microsoft.SQLServer.createServer\_038058404f1c45c585665a654bda1cc | Overview

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Microsoft.SQLServer.createServer\_038058404f1c45c585665a654bda1cc

Subscription: Pay-As-You-Go

Resource group: GL-SQL-RG

Start time: 10/3/2022, 10:24:02 AM

Correlation ID: 7fd1face-e450-408b-ac73-9bd02900d90a

Deployment details

Resource	Type	Status	Operation details
glsqserver001	Microsoft.Sql/servers	OK	<a href="#">Operation details</a>
glsqserver001	Microsoft.Sql/servers	Created	<a href="#">Operation details</a>

Next steps

Give feedback

[Tell us about your experience with deployment](#)

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### C. Hands-On: Create SQL database

3. In the Azure search bar paste the value as mentioned below and press enter.

SQL databases

4. Click on Create

- Select Subscription as **Free Trial/Pay-As-You-Go**
- Resource group as **GL-SQL-RG** (should be already by default)
- Databaser name: paste the value as mentioned below.

SampleDB

- Server should be selected as **glsqserver01**(should be already by default)
- Click **Next:Networking**
- Click **Next:Security**
- Click **Additional settings**
  - Data source: Use existing data: select **Sample**
- Click **Review + create**
- Click **Create**
- Wait until Deployment finishes. Usually, it takes about a minute.

portal.azure.com/#create/Microsoft.SQLDatabase

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Home > SQL databases >

### Create SQL Database

Microsoft

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the resource.

Basics Networking Security Additional settings Tags Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#) ⚡

**Did you know** that new users in Azure can create a free Azure SQL Database and use it for 12 months using Azure free account? [Learn more](#) ⚡

**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ Pay-As-You-Go

Resource group \* ⓘ GL-SQL-RG [Create new](#)

**Database details**

**Cost summary**

<b>General Purpose (GP_Gen5_2)</b>	
Cost per vCore (in USD)	184.09
vCores selected	x 2
Cost per GB (in USD)	
Max storage selected (in GB)	0.12 x 41.6
<b>ESTIMATED COST / MONTH</b>	
<b>372.97 USD</b>	

[Review + create](#) [Next: Networking >](#)

portal.azure.com/#create/Microsoft.SQLDatabase

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Home > SQL databases >

Create SQL Database ...

Microsoft

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the resource.

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \*

SampleDb ✓

Server \* ⓘ

glsqserver001 (East US) ✓

Create new

Want to use SQL elastic pool? ⓘ

☐ Yes ☒ No

Workload environment

☐ Development ☒ Production

ⓘ

Default settings provided for Production workloads. Configurations can be modified as needed.

Compute + storage \* ⓘ

General Purpose

Standard-series (Gen5), 2 vCores, 32 GB storage, zone redundant disabled

Review + create

Next : Networking >

portal.azure.com/#create/Microsoft.SQLDatabase

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DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL databases >

Create SQL Database ...

Microsoft

Basics Networking Security Additional settings Tags Review + create

Customize additional configuration parameters including collation & sample data.

Data source

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data \*

None Backup Sample

AdventureWorksLT will be created as the sample database.

AdventureWorksLT

Selecting this sample will modify the "Compute + Storage" settings configured in Basics, for backup compatibility. Visit "Basics" or "Review + Create" tabs to review the changes.

Do you want to continue?

OK

Cancel

SQL

Cost summary

General Purpose (GP\_Gen5\_2)

Cost per vCore (in USD)

184.09

vCores selected

x 2

Cost per GB (in USD)

0.12

Max storage selected (in GB)

x 41.6

ESTIMATED COST / MONTH

372.97 USD

Review + create

< Previous

Next : Tags >

portal.azure.com/#create/Microsoft.SQLDatabase

Profile

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athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...

Home > SQL databases >

Create SQL Database

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + create

Product details

SQL database  
by Microsoft  
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Estimated cost per month  
372.97 USD

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Basics

SubscriptionPay-As-You-Go

Resource groupGL-SQL-RG

Regioneastus

Database nameSampleDB

Serverglsqlserver001

Cost summary

General Purpose (GP\_Gen5\_2)

Cost per vCore (in USD)184.09

vCores selectedx 2

Cost per GB (in USD)0.12

Max storage selected (in GB)x 41.6

ESTIMATED COST / MONTH372.97 USD

Create< PreviousDownload a template for automation

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fd155ab9e-3e36-4fea-8177-2d277f94e74f%2FresourceGroups%2FGL-SQL-RG%2Fpr...

Profile

Microsoft Azure

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athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...

Home >

Microsoft.SQLDatabase.newDatabaseExistingServer\_2cf9dccd9f144ebb | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

OverviewInputsOutputsTemplate

Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseExistingSe...  
Subscription: Pay-As-You-Go  
Resource group: GL-SQL-RG

Start time: 10/3/2022, 10:33:51 AM  
Correlation ID: f9fb7382-9a5e-419b-9f83-c18cf193b49b

Deployment details

Resource	Type	Status	Operation details
glsqlserver001/Default	Microsoft.Sql/servers/vulnerabilit...	Created	Operation details
glsqlserver001/Default	Microsoft.Sql/servers/securityAler...	Created	Operation details
sqlva6kmjrcgxpkgvw	Microsoft.Storage/storageAccoun...	OK	Operation details
sqlva6kmjrcgxpkgvw	Microsoft.Storage/storageAccoun...	OK	Operation details
glsqlserver001/SampleDB	Microsoft.Sql/servers/databases	Created	Operation details
glsqlserver001	Microsoft.Sql/servers	OK	Operation details

Next steps

Go to resource

Give feedback

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#### D. Hands-On: Create firewall rules to allow access to SQL server

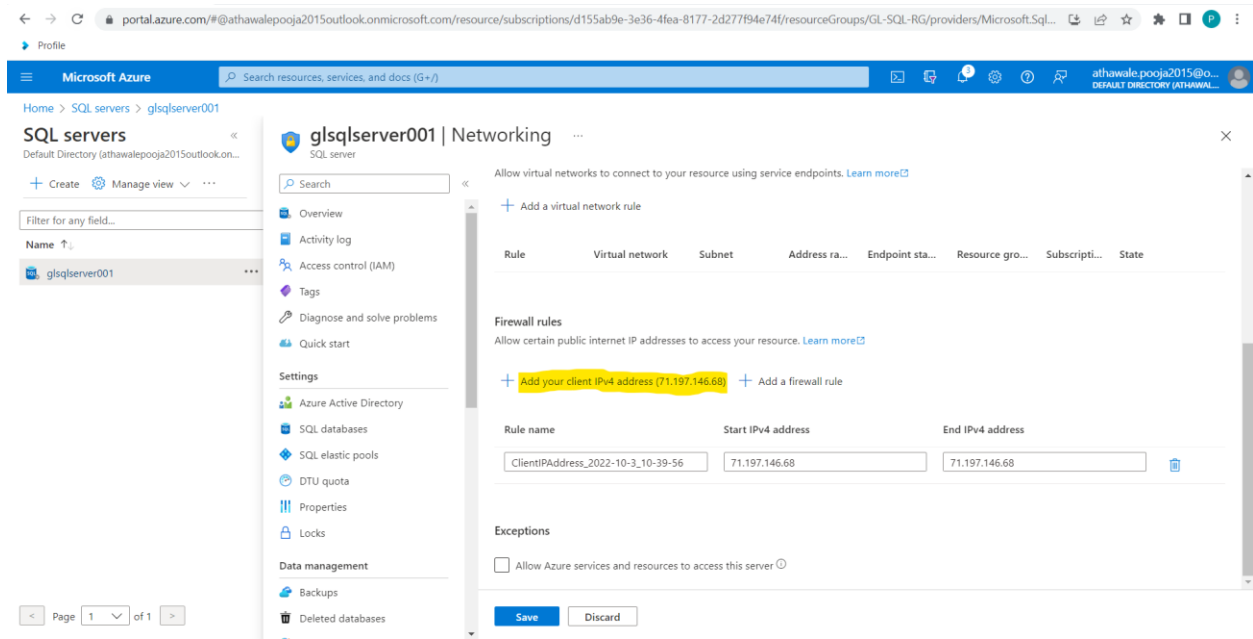
- a. In the Azure search bar paste the value as mentioned below and press enter.

SQL Servers

- b. Click on **glsqlserver01** (If server name specified earlier step is different, select that )  
c. Under the server details select **Firewalls and virtual networks**  
d. Click **Add Client IP**  
i. Click **Save**

The screenshot shows the Microsoft Azure portal interface. The browser address bar displays the URL: `portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/d155ab9e-3e36-4fea-8177-2d277f94e74f/resourceGroups/GL-SQL-RG/providers/Microsoft.Sql/servers/glsqlserver01`. The page title is "SQL servers" under the "Default Directory (athawalepooja2015outlook.on...)". The left sidebar shows a list of SQL servers, with "glsqlserver01" selected. The main content area displays the details for "glsqlserver01". The "Overview" tab is active, showing the server's status as "Available" and location as "East US". The "Essentials" section includes links for "Create database", "New elastic pool", "New dedicated SQL pool (formerly SQL DW)", "Import database", and "Reset password". The "Server admin" section lists "mbadmin" as the server admin, "Show networking settings" for networking, "Not configured" for Active Directory admin, and "glsqlserver01.database.windows.net" as the server name. The "Notifications" section shows a notification for "Microsoft Defender for SQL Free Trial" with a message: "Your free trial will expire in 30 days".





## E. Hands-On: Connect database via query editor

- In the Azure search bar paste the value as mentioned below and press enter.

SQL databases

- Select the **SampleDB**
- Under the sampled properties select **Query editor (preview)**
- Login with the password
- Paste the below query in the query field

```
select * from [SalesLT].[Customer]
```

- Click on **Run**
- Result will be shown in the screen

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/d155ab9e-3e36-4fea-8177-2d277f94e74f/resourceGroups/GL-SQL-RG/providers/Microsoft.Sql...

Profile

Microsoft Azure

Search resources, services, and docs (G+)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL databases >

### SQL databases

Default Directory (athawalepooja2015outlook.on...

+ Create Reservations ...

Filter for any field...

Name ↑

SampleDB (glsqserver001/SampleDB) ...

Overview

Activity log

Tags

Diagnose and solve problems

Getting started

Query editor (preview)

Power Platform

Power BI

Power Apps

Power Automate

Settings

Compute + storage

Connection strings

Maintenance

Properties

Locks

### SampleDB (glsqserver001/SampleDB)

SQL database

Copy Restore Export Set server firewall Delete Connect with... Feedback

This database was just created. Do you need any help [getting started](#)?

Essentials

Resource group (move)  
[GL-SQL-RG](#)

Status  
Ready

Location  
East US

Subscription (move)  
[Pay-As-You-Go](#)

Subscription ID  
d155ab9e-3e36-4fea-8177-2d277f94e74f

Tags (edit)  
[Click here to add tags](#)

Server name  
[glsqserver001](#)

Elastic pool  
[No elastic pool](#)

Connection strings  
[Show database connection strings](#)

Pricing tier  
[General Purpose: Standard-series \(Gen5\), 2 vCores](#)

Earliest restore point  
2022-10-03 17:40 UTC

Show data for last: 1 hour 24 hours 7 days

Aggregation type: Max

Database data storage

0% USED SPACE

Compute utilization

100%  
90%  
80%  
70%

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/d155ab9e-3e36-4fea-8177-2d277f94e74f/resourceGroups/GL-SQL-RG/providers/Microso...

Profile

Microsoft Azure

Search resources, services, and docs (G+)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL databases > SampleDB (glsqserver001/SampleDB)

### SQL databases

Default Directory (athawalepooja2015outlook.on...

+ Create Reservations ...

Filter for any field...

Name ↑

SampleDB (glsqserver001/SampleDB) ...

Overview

Activity log

Tags

Diagnose and solve problems

Getting started

Query editor (preview)

Power Platform

Power BI

Power Apps

Power Automate

Settings

Compute + storage

Connection strings

Maintenance

Properties

Locks

### SampleDB (glsqserver001/SampleDB) | Query editor (preview)

SQL database

Login + New Query Open query Feedback

SampleDB (mbadmin)

Showing limited object explorer here. For full capability please open SSDT.

> Tables

> Views

> Stored Procedures

Query 1 X

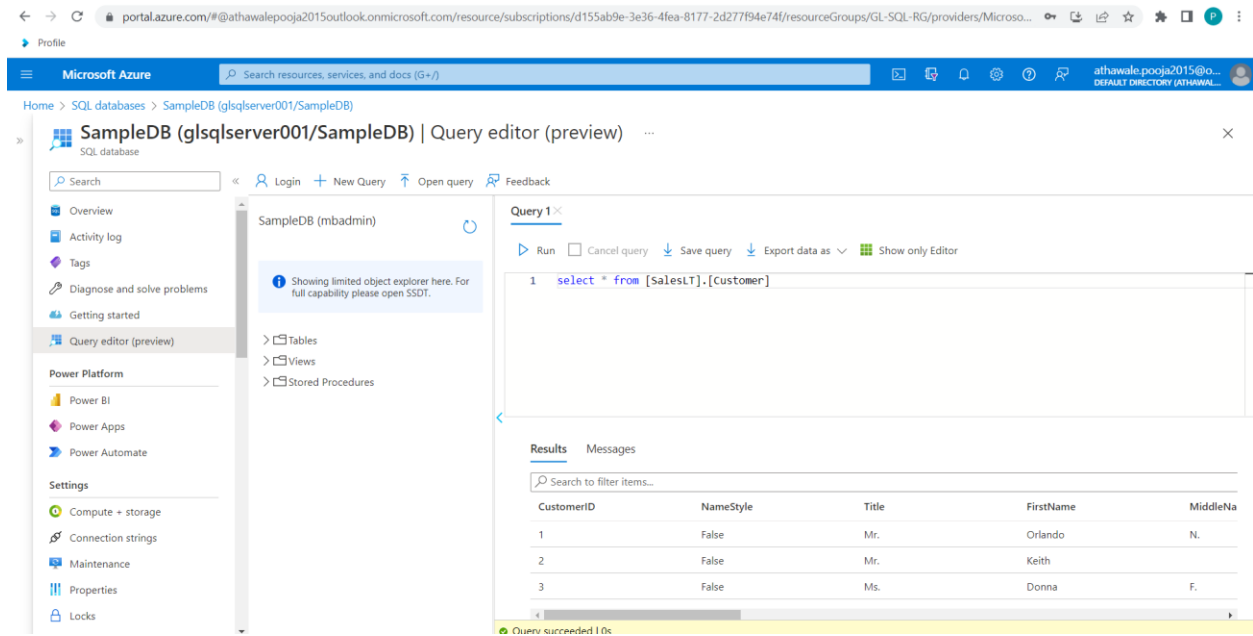
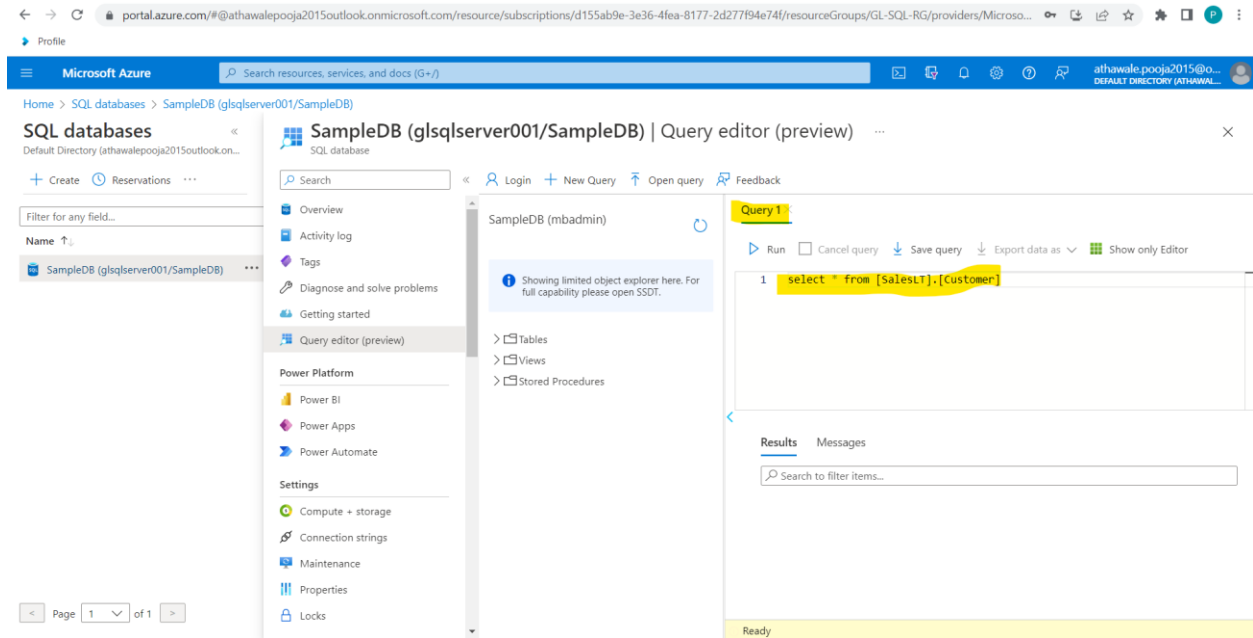
Run Cancel query Save query Export data as Show only Editor

1

Results Messages

Search to filter items...

Search



## F. Hands-On: Connect database via client tool

- Open the Azure management console at <https://portal.azure.com/?quickstart=True#home> (you will be required to sign in using your free account)
- In the Azure search bar paste the value as mentioned below and press enter.

#### virtual machines

- c. Click on **Create: Create Virtual Machines**
- d. Select Subscription as **Free Trial/Pay-As-You-Go**
- e. Resource group: paste the value as mentioned below  
GL-SQL-RG
- a. Virtual Machine name: paste the value as mentioned below  
GL-SQL-VM
- b. **Region** leave the default value
- c. **Availability options** leave the default value
- d. **Security type** leave the default value
- e. **Image** Select Windows 10 Pro
- f. **Size:** leave the default value
- g. **Username** type gladmin
- h. **Password** specify the password
- i. **Check Licensing option**
- j. Click **Review + Create**
- k. Click **Create**
- l. Wait until Deployment finishes. Usually, it takes about 1-2 minute.
- m. Go to resources and copy the public IP address of the VM
- n. In the Azure search bar type the value as mentioned below and press enter.

#### SQL Servers

- o. Click on **glsqlserver01** (If server name specified earlier step is different, select that )
- p. Under the server details select **Firewalls and virtual networks** create new rule.
  - a. **Rule Name:** AzureVMAccess
  - b. **Start IP:** Paste the public IP address of the VM
  - c. **End IP:** Paste the public IP address of the VM
  - d. Click **Save**
- q. Go to Windows Remote Desktop Client and connect to the VM using the public IP
- r. Download and install the Azure data studio in the VM created earlier. Follow the instructions from here -  
<https://docs.microsoft.com/en-us/sql/azure-data-studio/download-azure-data-studio?view=sql-server-ver15>

- s. Open **Azure Data Studio** from your start menu
- t. Click on **New Connection** in the welcome page.
  - i. Connection type: Microsoft SQL server
  - ii. Server: <Copy/paste server name from azure portal> (Please see below for finding server name in Azure portal)
    - 1. In the Azure search bar paste the value as mentioned below and press enter.

```
SQL databases
```
    - 2. Select the **SampleDB**
    - 3. You can find Server name in the top right corner of the window
  - iii. Authentication type: SQL Login
  - iv. Username: mbadmin
  - v. Password: <Password of the database>
- u. Once connection is established, select SampleDB from the **search** window
- v. Right Click and select **New Query**

- vi. Paste the below query in the query field

```
select * from [SalesLT].[Customer]
```

- vii. Click on **Run**

- w. Result will be shown in the screen

The screenshot shows the 'Create a virtual machine' page in the Azure portal. The 'Basics' tab is active, and the following details are visible:

- Subscription:** PayAsYouGo
- Resource group:** GL-SQL-RG
- Virtual machine name:** GL-SQL-VM
- Region:** (US) East US
- Availability options:** Availability zone
- Availability zone:** Zones 1

At the bottom, there is a 'Review + create' button and a 'Next: Disks >' button. The page also includes a 'Give feedback' link in the bottom right corner.

portal.azure.com/#create/Microsoft.VirtualMachine

Profile

Microsoft Azure

Search resources, services, and docs (G+J)

athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...

Home > Virtual machines >

Create a virtual machine

Security type

Standard

Image \*

Windows 10 Pro, version 21H2 - Gen2

See all images | Configure VM generation

VM architecture

Arm64

x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount

☐

Size \*

Standard\_D2s\_v3 - 2 vcpus, 8 GiB memory (\$70.08/month)

See all sizes

Administrator account

Username \*

gladmin

Password \*

\*\*\*\*\*

Confirm password \*

\*\*\*\*\*

Inbound port rules

Review + create

< Previous

Next : Disks >

Give feedback

portal.azure.com/#create/Microsoft.VirtualMachine

Profile

Microsoft Azure

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athawale.pooja2015@o...  
DEFAULT DIRECTORY (ATHAWAL...

Home > Virtual machines >

Create a virtual machine

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*

None

Allow selected ports

Select inbound ports \*

RDP (3389)

This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Licensing

confirm I have an eligible Windows 10/11 license with multi-tenant hosting rights.

Review multi-tenant hosting rights for Windows 10/11 compliance

Review + create

< Previous

Next : Disks >

Give feedback

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fd155ab9e-3e36-4fea-8177-2d277f94e74f%2FresourceGroups%2FGL-SQL-RG...

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athawale.pooja2015@o... DEFAULT DIRECTORY (ATHAWAL...)

Home >

### CreateVm-MicrosoftWindowsDesktop.Windows-10-win10-20221003105912 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

**Your deployment is complete**

Deployment name: CreateVm-MicrosoftWindowsDesktop.Windows... Start time: 10/3/2022, 11:04:33 AM  
Subscription: Pay-As-You-Go Correlation ID: 7b861529-758e-402f-9c5a-6e29c48e7a34  
Resource group: GL-SQL-RG

**Deployment details**

Resource	Type	Status	Operation details
GL-SQL-VM	Microsoft.Compute/virtualMachi...	OK	<a href="#">Operation details</a>
gl-sql-vm797_x1	Microsoft.Network/networkInterf...	Created	<a href="#">Operation details</a>
GL-SQL-RG-vnet	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>
GL-SQL-VM-nsg	Microsoft.Network/networkSecur...	OK	<a href="#">Operation details</a>
GL-SQL-VM-ip	Microsoft.Network/publicIpAddre...	OK	<a href="#">Operation details</a>

**Next steps**

[Setup auto-shutdown](#) Recommended  
[Monitor VM health, performance and network dependencies](#) Recommended  
[Run a script inside the virtual machine](#) Recommended

[Go to resource](#) [Create another VM](#)

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[Set up cost alerts >](#)

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[Find an Azure expert >](#)

portal.azure.com/#@athawalepooja2015outlook.onmicrosoft.com/resource/subscriptions/d155ab9e-3e36-4fea-8177-2d277f94e74f/resourceGroups/GL-SQL-RG/providers/Microso...

Profile

Microsoft Azure Search resources, services, and docs (G+)

athawale.pooja2015@o... DEFAULT DIRECTORY (ATHAWAL...)

Home > SQL servers > glsqlserver001

### SQL servers

Default: Directory (athawalepooja2015outlook.on...

+ Create Manage view ...

Filter for any field...

Name ↑

glsqlserver001

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Quick start

**Settings**

- Azure Active Directory
- SQL databases
- SQL elastic pools
- DTU quota
- Properties
- Locks

**Data management**

- Backups
- Deleted databases

### glsqlserver001 | Networking

SQL server

Search

database. By default, no public IP addresses are allowed. [Learn more](#)

**Virtual networks**

Allow virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network rule

Rule	Virtual network	Subnet	Address ra...	Endpoint sta...	Resource gro...	Subscripti...	State
------	-----------------	--------	---------------	-----------------	-----------------	---------------	-------

**Firewall rules**

Allow certain public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address (71.197.146.68) + Add a Firewall rule

Rule name	Start IPv4 address	End IPv4 address
AzureVMAccess	4.236.179.34	4.236.179.34
ClientIPAddress_2022-10-3_10-39-56	71.197.146.68	71.197.146.68

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Azure Data Studio is a cross-platform database tool for data professionals who use on-premises and cloud data platforms on Windows, macOS, and Linux.

Azure Data Studio offers a modern editor experience with IntelliSense, code snippets, source control integration, and an integrated terminal. It's engineered with the data platform user in mind, with the built-in charting of query result sets and customizable dashboards.

Use Azure Data Studio to query, design, and manage your databases and data warehouses wherever they are, on your local computer or in the cloud.

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Administrator privileges. (It doesn't require Administrator privileges because the location is under your user Local AppData (LOCALAPPDATA) folder.) The user installer also provides a smoother background update experience. For more information, see [User setup for Windows](#).

**User installer (recommended)**

1. Download and run the [Azure Data Studio user installer for Windows](#).
2. Start the Azure Data Studio app.

**System installer**

1. Download and run the [Azure Data Studio system installer for Windows](#).
2. Start the Azure Data Studio app.

**.zip file**

1. Download the [Azure Data Studio .zip file for Windows](#).
2. Go to the downloaded file and extract it.
3. Run `\\azuredatstudio-windows\\azuredatstudio.exe`.

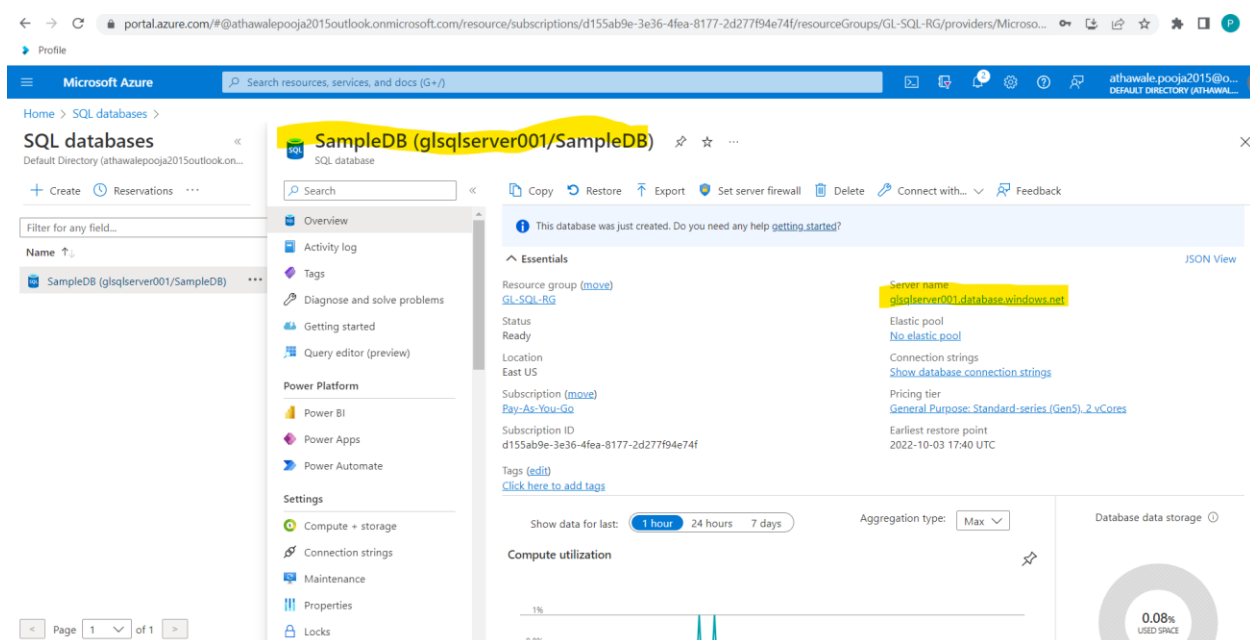
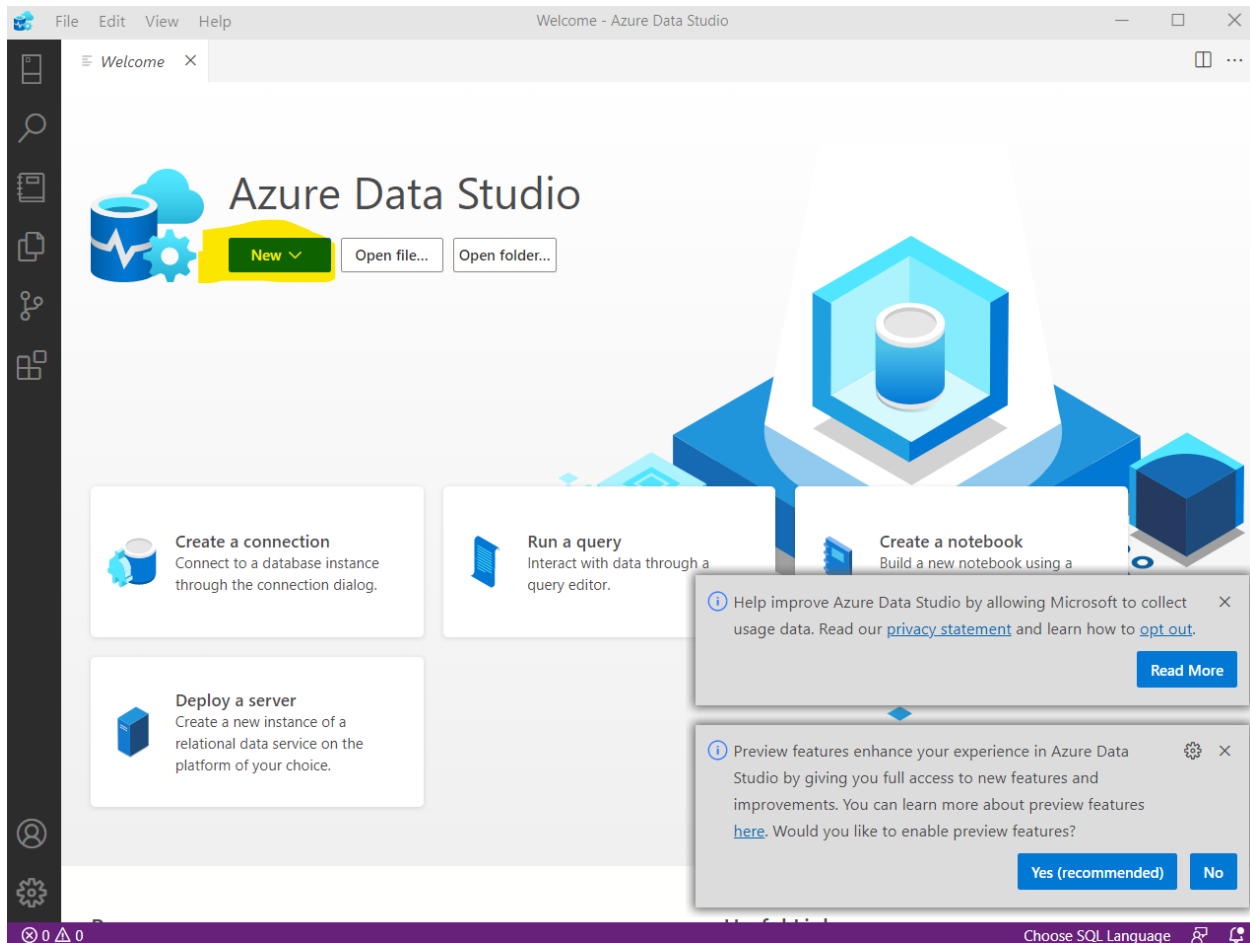
**Unattended installation for Windows**

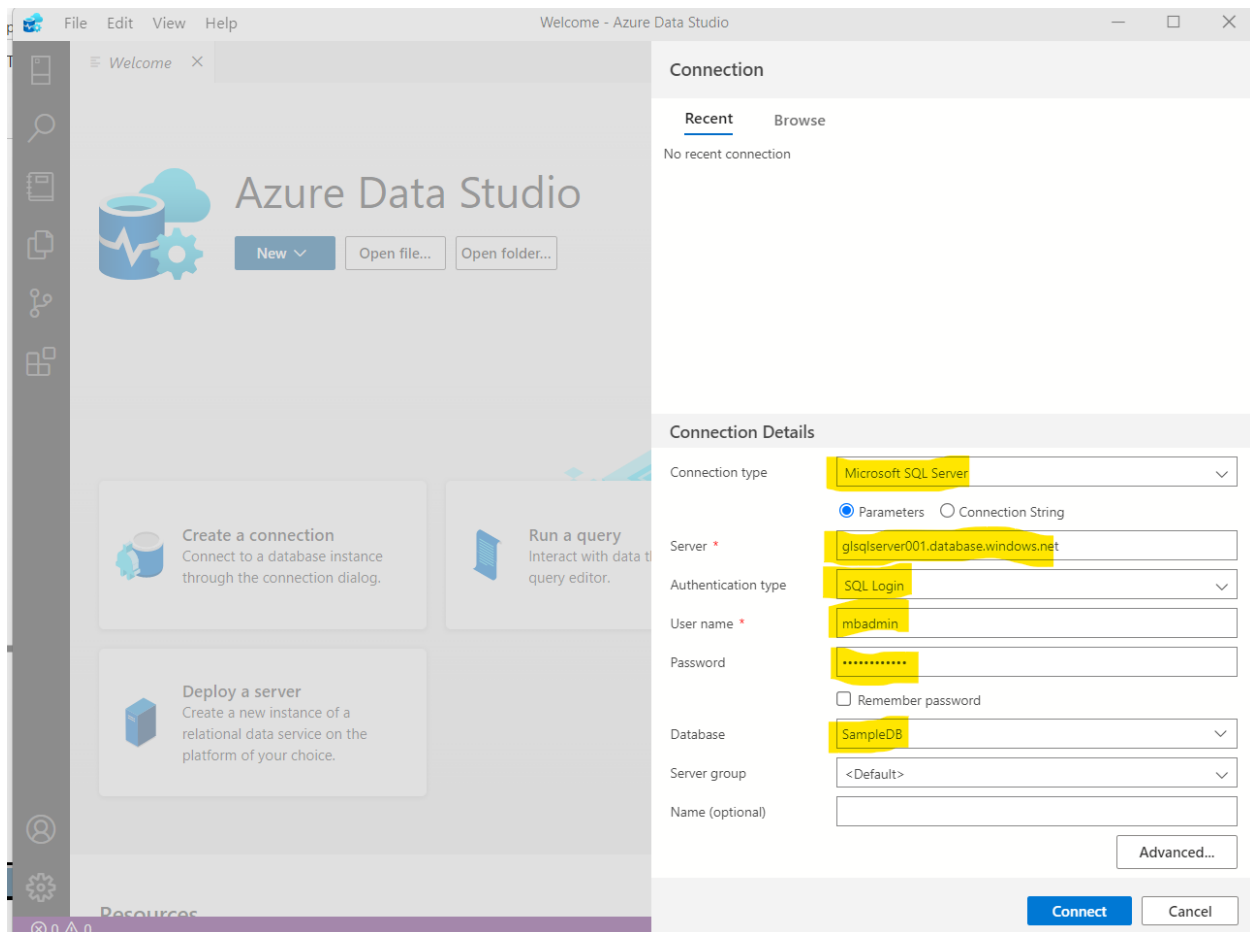
You can also install Azure Data Studio by using a command prompt script.

For Windows, install Azure Data Studio in the background without prompts by doing the following:

1. Open the command prompt window with elevated permissions.







FileEditViewHelp

Welcome - Azure Data Studio

Welcome

glsqserver001.database.windows.net:SampleDB

Home > glsqserver001.database.windows.net > SampleDB

New QueryNew NotebookBackupRestoreRefreshLearn More

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Search

Search by name of type (t:, v:, f:, or sp:)

Name	Schema	Type	Actions
BuildVersion	dbo	Table	...
ErrorLog	dbo	Table	...
Address	SalesLT	Table	...
Customer	SalesLT	Table	...
CustomerAddress	SalesLT	Table	...
Product	SalesLT	Table	...
ProductCategory	SalesLT	Table	...
ProductDescription	SalesLT	Table	...
ProductModel	SalesLT	Table	...
ProductModelProductDescription	SalesLT	Table	...
SalesOrderDetail	SalesLT	Table	...
SalesOrderHeader	SalesLT	Table	...
vGetAllCategories	SalesLT	View	...
vProductAndDescription	SalesLT	View	...
vProductModelCatalogDescription	SalesLT	View	...
uspLogError	dbo	StoredProcedure	...

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Welcome x gsqlserver001.database.windows.net:SampleDB SQLQuery\_1 - gsqls...badmin

Run Cancel Disconnect Change Connection SampleDB

```
1 select * from [SalesLT].[Customer]
```

Ln 1, Col 35 Spaces: 4 UTF-8 CRLF SQL MSSQL gsqlserver001.database.windows.net : SampleDB

File Edit View Help • SQLQuery\_1 - gsqlserver001.database.windows.net:SampleDB (mbadmin) - Azure Data Studio

Welcome x gsqlserver001.database.windows.net:SampleDB SQLQuery\_1 - gsqls...badmin

Run Cancel Disconnect Change Connection SampleDB

```
1 select * from [SalesLT].[Customer]
```

Results		Messages										
	CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	CompanyName	SalesPerson	EmailAddress	Phone	
1	1	0	Mr.	Orlando	N.	Gee	NULL	A Bike Store	adventure-works/pamela0	orlando0@adventure-works.com	245-555-0173	
2	2	0	Mr.	Keith	NULL	Harris	NULL	Progressive Sports	adventure-works/david0	keith0@adventure-works.com	170-555-0127	
3	3	0	Ms.	Donna	F.	Carreras	NULL	Advanced Bike Components	adventure-works/jillian0	donna0@adventure-works.com	279-555-0130	
4	4	0	Ms.	Janet	M.	Gates	NULL	Modular Cycle Systems	adventure-works/jillian0	janet1@adventure-works.com	710-555-0173	
5	5	0	Mr.	Lucy	NULL	Harrington	NULL	Metropolitan Sports Supply	adventure-works/shu0	lucy0@adventure-works.com	828-555-0186	
6	6	0	Ms.	Rosmarie	J.	Carroll	NULL	Aerobic Exercise Company	adventure-works/linda3	rosmarie0@adventure-works.com	244-555-0112	
7	7	0	Mr.	Dominic	P.	Gash	NULL	Associated Bikes	adventure-works/shu0	dominic0@adventure-works.com	192-555-0173	
8	10	0	Ms.	Kathleen	M.	Garza	NULL	Rural Cycle Emporium	adventure-works/jos01	kathleen0@adventure-works.com	150-555-0127	
9	11	0	Ms.	Katherine	NULL	Harding	NULL	Sharp Bikes	adventure-works/jos01	katherine0@adventure-works.c...	926-555-0159	
10	12	0	Mr.	Johnny	A.	Caprio	Jr.	Bikes and Motorbikes	adventure-works/garrett1	johnny0@adventure-works.com	112-555-0191	
11	16	0	Mr.	Christopher	R.	Beck	Jr.	Bulk Discount Store	adventure-works/jae0	christopher1@adventure-works...	1 (11) 500 555-013	
12	18	0	Mr.	David	J.	Liu	NULL	Catalog Store	adventure-works/michael19	david20@adventure-works.com	440-555-0132	
13	19	0	Mr.	John	A.	Beaver	NULL	Center Cycle Shop	adventure-works/pamela0	john0@adventure-works.com	521-555-0195	
14	20	0	Ms.	Jean	P.	Handley	NULL	Central Discount Store	adventure-works/david0	jean1@adventure-works.com	582-555-0113	
15	21	0	NULL	Jinghao	NULL	Liu	NULL	Chic Department Stores	adventure-works/jillian0	jinghao1@adventure-works.com	928-555-0116	
16	22	0	Ms.	Linda	E.	Burnett	NULL	Travel Systems	adventure-works/jillian0	linda4@adventure-works.com	121-555-0121	
17	23	0	Mr.	Kejim	NULL	Hanif	NULL	Bike World	adventure-works/shu0	kejim0@adventure-works.com	216-555-0172	

Ln 1, Col 35 Spaces: 4 UTF-8 CRLF SQL 847 rows MSSQL 00:00:02 gsqlserver001.database.windows.net : SampleDB