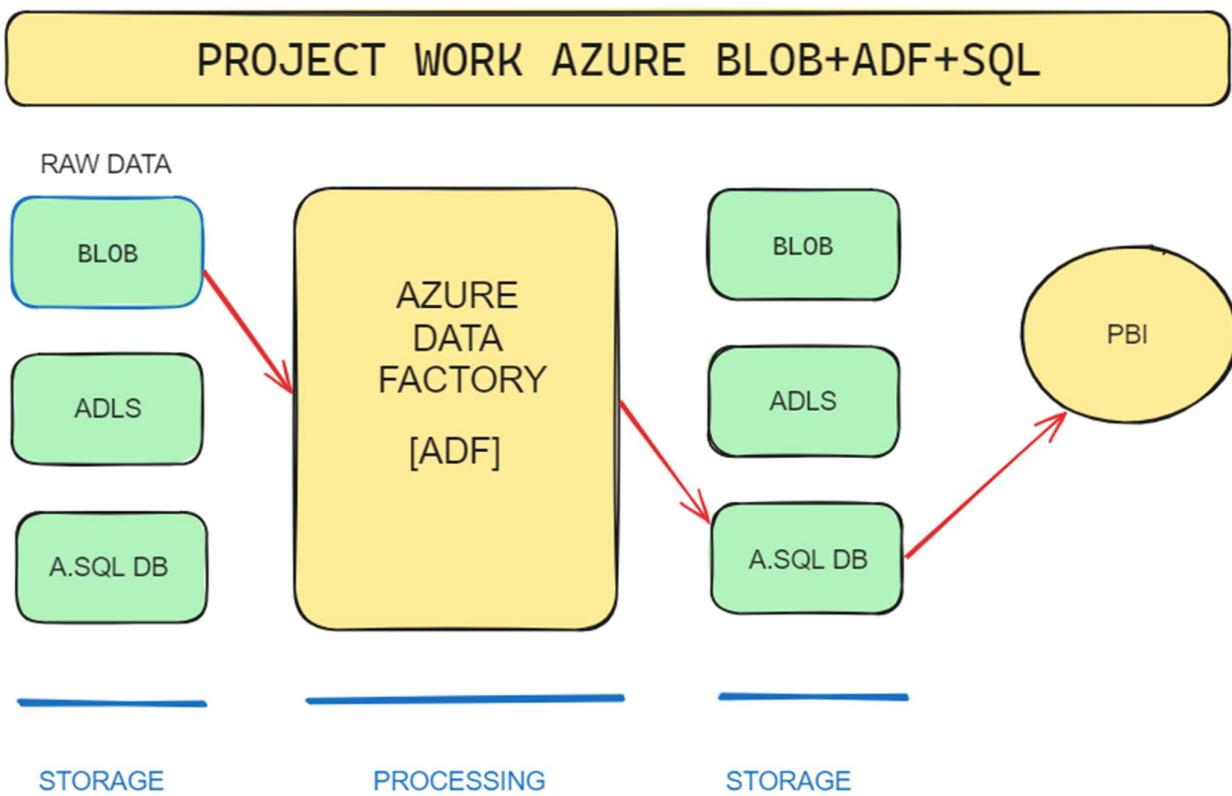


ARCHITECTURE OF BLOB → ADF → SQL DB → PBI



Below Resources need to be Created: -

- Azure Blob Storage → Storage Layer
- Azure Data Factory → Processing Layer
- Azure SQL Database → Storage & Processing Layer

CREATING RESOURCE GROUP

Azure services



Resources

Recent Favorite

Name	Type	Last Viewed
Free Trial	Subscription	6 days ago
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Tools



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Create a resource

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- Web App [Create](#) | [Docs](#) | [MS Learn](#)
- SQL Database [Create](#) | [Docs](#) | [MS Learn](#)
- Function App [Create](#) | [Docs](#)
- Key Vault [Create](#) | [Docs](#) | [MS Learn](#)
- Data Factory [Create](#) | [Docs](#) | [MS Learn](#)
- Template deployment (deploy using custom templates) [Create](#) | [Docs](#) | [MS Learn](#)
- Logic App [Create](#) | [Docs](#) | [MS Learn](#)
- Automation [Create](#) | [Docs](#)
- Public IP address [Create](#) | [Docs](#)

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- Windows 11 Pro, version 21H2 [Create](#) | [Learn more](#)
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- Ubuntu Server 22.04 LTS [Create](#) | [Learn more](#)
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Create a resource

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	Azure NetApp Files Create Docs MS Learn
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	Azure Edge Hardware Center Create Docs
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	FTP Server Solution for Azure File Share Create Learn more
	SFTP Gateway 3.4 Create Learn more
	SFTP Secure Server SSH on Windows Server 2016 Create Learn more
	Azure Backup as a service Create Learn more
	Veeam Backup & Replication v11 Create Learn more

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *	Free Trial
Resource group *	Select existing item... Create new



Instance details

Storage account name ⓘ *

Region ⓘ *

Performance ⓘ *

Redundancy ⓘ *

Standard: Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

Geo-redundant storage (GRS)

[Review](#)

< Previous

Next : Advanced >

Home > Create a resource >

Create a storage account

...

Basics Advanced Networking Data protection Encryption Tags Review

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Free Trial

Resource group *

(New) KSR-MAGUDESWARAN-RG

[Create new](#)

Instance details

Storage account name ⓘ *

ksrmagudesblob

Region ⓘ *

(Asia Pacific) South India

[Deploy to an edge zone](#)

Performance ⓘ *

Standard: Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

Redundancy ⓘ *

Locally-redundant storage (LRS)

Home > Create a resource >

Create a storage account

...

Basics Advanced Networking Data protection Encryption Tags Review

i Certain options have been disabled by default due to the combination of storage account performance, redundancy, and region.

Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ



Allow enabling anonymous access on individual containers ⓘ



Enable storage account key access ⓘ



Default to Microsoft Entra authorization in the Azure portal ⓘ



Minimum TLS version ⓘ

Version 1.2

Permitted scope for copy operations (preview) ⓘ

From any storage account

Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

Enable hierarchical namespace



Create a storage account

...

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review

Enable hierarchical namespace



Access protocols

Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more](#)

Enable SFTP



i To enable SFTP, 'hierarchical namespace' must be enabled.

Enable network file system v3



i To enable NFS v3 'hierarchical namespace' must be enabled. [Learn more about NFS v3](#)

Blob storage

Allow cross-tenant replication



Access tier



Hot: Optimized for frequently accessed data and everyday usage scenarios



Cool: Optimized for infrequently accessed data and backup scenarios

Azure Files

Enable large file shares



Create a storage account

...

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review

Network connectivity

You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.

Network access *



Enable public access from all networks



Enable public access from selected virtual networks and IP addresses



Disable public access and use private access

i Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. [Learn more](#)

Network routing

Determine how to route your traffic as it travels from the source to its Azure endpoint. Microsoft network routing is recommended for most customers.

Routing preference *



Microsoft network routing



Internet routing

Review

< Previous

Next : Data protection >

Create a storage account

[Basics](#) [Advanced](#) [Networking](#) [Data protection](#) [Encryption](#) [Tags](#) [Review](#)

Recovery

Protect your data from accidental or erroneous deletion or modification.

Enable point-in-time restore for containers

Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more](#)

Enable soft delete for blobs

Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

Days to retain deleted blobs [?](#)

7

Enable soft delete for containers

Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

Days to retain deleted containers [?](#)

7

Enable soft delete for file shares

Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more](#)

Days to retain deleted file shares [?](#)

7

Create a storage account

[Basics](#) [Advanced](#) [Networking](#) [Data protection](#) [Encryption](#) [Tags](#) [Review](#)

Encryption type [?](#)

Microsoft-managed keys (MMK)

Customer-managed keys (CMK)

Blobs and files only

All service types (blobs, files, tables, and queues)

⚠ This option cannot be changed after this storage account is created.

Enable support for customer-managed keys [?](#)

Enable infrastructure encryption [?](#)

[Review](#)

[< Previous](#)

[Next : Tags >](#)

Create a storage account

...

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name

Value

Resource

:

Review

< Previous

Next : Review >

Create a storage account

...

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review**Basics**

Subscription	Free Trial
Resource Group	KSR-MAGUDESWARAN-RG
Location	southindia
Storage account name	ksrmagudesblob
Deployment model	Resource manager
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Cool
Enable SFTP	Disabled
Large file shares	Disabled

Networking

Network connectivity	Public endpoint (all networks)
Default routing tier	Microsoft network routing
Endpoint type	Standard

Security

Create a storage account

...

[Basics](#) [Advanced](#) [Networking](#) [Data protection](#) [Encryption](#) [Tags](#) [Review](#)

Security

Secure transfer	Enabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Blob anonymous access	Enabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account

Data protection

Point-in-time restore	Disabled
Blob soft delete	Enabled
Blob retention period in days	7
Container soft delete	Enabled
Container retention period in days	7
File share soft delete	Enabled
File share retention period in days	7
Versioning	Disabled
Blob change feed	Disabled
Version-level immutability support	Disabled

Encryption

Encryption type	Microsoft-managed keys (MMK)
-----------------	------------------------------

[Create](#)[< Previous](#)[Next >](#)[Download a template for automation](#)[Microsoft Azure](#) [Upgrade](#)[Search resources, services, and docs \(G+\)](#)

Home >

 [ksrmagudesblob_1707924407031](#) | Overview [Overview](#)[Inputs](#)[Outputs](#)[Template](#)**Deployment is in progress**

 Deployment name: [ksrmagudesblob_1707924407031](#)
 Subscription: [Free Trial](#)
 Resource group: [KSR-MAGUDESWARAN-RG](#)

Start time: 14/2/2024, 8:56:52 pm

Correlation ID: 925fa563-98a3-4788-98ca-1294cf3af81 [Deployment details](#)

Resource	Type	Status	Operation details
----------	------	--------	-------------------

No results.

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

Home > **ksrmagudesblob_1707924407031 | Overview** ✎ ...

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Your deployment is complete

Deployment name: **ksrmagudesblob_1707924407031**
 Subscription: **Free Trial**
 Resource group: **KSR-MAGUDESWARAN-RG**

Start time: 14/2/2024, 8:56:52 pm
 Correlation ID: 925fa563-98a3-4788-98ca-12f94cf3af81

Deployment details | Next steps

Go to resource

Give feedback | Tell us about your experience with deployment

Home > **ksrmagudesblob_1707924407031 | Overview**

ksrmagudesblob ✎ ⭐ ...

Storage account

Search | Upload | Open in Explorer | Delete | Move | Refresh | Open in mobile | CLI / PS | Feedback

Overview

Resource group (move) : **KSR-MAGUDESWARAN-RG**
 Location : southindia
 Subscription (move) : **Free Trial**
 Subscription ID : c907a972-dcb9-4251-a941-9a8f811f336f
 Disk state : Available
 Tags (edit) : Add tags

Properties | Monitoring | Capabilities (7) | Recommendations (0) | Tutorials | Tools + SDKs

Blob service

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Cool	Storage account key access	Enabled
Blob anonymous access	Enabled	Minimum TLS version	Version 1.2
Blob soft delete	Enabled (7 days)	Infrastructure encryption	Disabled
Container soft delete	Enabled (7 days)		
Versioning	Disabled		
Change feed	Disabled		
NFS v3	Disabled		
Allow cross-tenant replication	Disabled		

File service

Large file share	Disabled	Access for trusted Microsoft services	Yes
Identity-based access	Not configured	Endpoint type	Standard
Default share-level permissions	Disabled		
Soft delete	Enabled (7 days)		
Share capacity	5 TiB		

Queue service

CMK support	Disabled		
-------------	----------	--	--

Security

Allow access from	All networks
Number of private endpoint connections	0
Network routing	Microsoft network routing

Networking

Allow access from	All networks
Number of private endpoint connections	0
Network routing	Microsoft network routing
Access for trusted Microsoft services	Yes
Endpoint type	Standard

Storage browser

Storage Mover

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

- Networking
- Front Door and CDN
- Access keys
- Shared access signature
- Encryption
- Microsoft Defender for Cloud

Data management

- Redundancy
- Data protection
- Object replication
- Blob inventory

kstardatasets ...

Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot Give feedback

Overview Diagnose and solve problems Access Control (IAM)

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: kstardatasets

Search blobs by prefix (case-sensitive) Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
Bike_Data_Rev.xlsx	14/2/2024, 9:09:54 pm	Cool (inferred)		Block blob	5.56 MiB	Available
Employee_Data.xlsx	14/2/2024, 9:09:52 pm	Cool (inferred)		Block blob	12.83 KiB	Available
Employee_Training_Data.xlsx	14/2/2024, 9:09:52 pm	Cool (inferred)		Block blob	22.29 KiB	Available

CREATING AZURE DATA FACTORY

Home > Create a resource >

Create Data Factory ...

Basics Git configuration Networking Advanced Tags Review + create

One-click to create data factory with sample pipeline and datasets. [Try it](#)

Project details

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

Subscription * ⓘ

Free Trial

Resource group * ⓘ

KSR-MAGUDESWARAN-RG

[Create new](#)

Instance details

Name * ⓘ

ksrmagudesadf

Region * ⓘ

South India

Version * ⓘ

V2

Home > Create a resource >

Create Data Factory ...

Basics **Git configuration** Networking Advanced Tags Review + create

Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for easier change tracking and collaboration.
[Learn more about Git integration in Azure Data Factory](#)

Configure Git later ⓘ



[Previous](#)

[Next](#)

[Review + create](#)

[Home](#) > [Create a resource](#) >

Create Data Factory ...

[Basics](#) [Git configuration](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

Managed virtual network

Choose whether you want the default AutoResolveIntegrationRuntime to be provisioned on demand inside an ADF-managed virtual network. If this setting is disabled, after the data factory is created, you can still choose whether to provision explicitly created Azure integration runtime inside an ADF-managed virtual network.

[Learn more](#)

Enable Managed Virtual Network on the default AutoResolveIntegrationRuntime

Self-hosted integration runtime inbound connectivity to Azure Data Factory service

Choose whether to connect your self-hosted integration runtime to Azure Data Factory via public endpoint or private endpoint. This applies to self-hosted integration runtime running either on premises or inside customer managed Azure virtual network

[Learn more](#)

Connect via *

Public endpoint

Private endpoint



You can change this or configure another connectivity method after this resource is created. [Learn more](#)

[Home](#) > [Create a resource](#) >

Create Data Factory ...

[Basics](#) [Git configuration](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

Datafactory Encryption

By default, data is encrypted with Microsoft-managed keys. For additional control over encryption keys, you can supply customer-managed keys to use for encryption of blob and file data. Customer-managed keys must be stored in an Azure Key Vault. You can either create your own keys and store them in a key vault, or you can use the Azure Key Vault APIs to generate keys. The storage account and the key vault must be in the same region, but they can be in different subscriptions.

Enable encryption using a Customer Managed Key

[Previous](#)[Next](#)[Review + create](#)

Home > Create a resource >
Create Data Factory ...

Basics Git configuration Networking Advanced **Tags** Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
<input type="text"/>	:	Data factory (V2)

[Previous](#) [Next](#) **Review + create**

Home > Create a resource >
Create Data Factory ...

Basics Git configuration Networking Advanced Tags **Review + create**

☞ [View automation template](#)

TERMS

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Basics

Subscription	Free Trial
Resource group	KSR-MAGUDESWARAN-RG
Name	ksrmagudesadf
Region	South India
Version	V2

Networking

Connect via [Public endpoint](#)

[Previous](#) [Next](#) **Create**

ADF DEPLOYMENT PROCESS COMPLETED

Home > Microsoft.DataFactory-20240214222529 | Overview

Your deployment is complete

Deployment name : Microsoft.DataFactory-20240214222529
Subscription : Free Trial
Resource group : KSR-MAGUDESWARAN-RG

Start time : 14/2/2024, 10:32:07 pm
Correlation ID : c26d9a2b-578c-466f-9975-39eb288154d6

Deployment details
Next steps

Go to resources

Give feedback
Tell us about your experience with deployment

Deployment succeeded
Deployment 'Microsoft.DataFactory-20240214222529' to resource group 'KSR-MAGUDESWARAN-RG' was successful.

Pin to dashboard Go to resource group

Cost management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

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Work with an expert
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Find an Azure expert >

AZURE DATA FACTORY IS CREATED

Home > Microsoft.DataFactory-20240214222529 | Overview

ksrmagudesadf Data factory (V2)

Search Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Managed identities

Properties

Locks

Getting started

Quick start

Monitoring

Alerts

Metrics

Diagnostic settings

Logs

Automation

CLI / PS

Tasks (preview)

Essentials

Resource group (move) : KSR-MAGUDESWARAN-RG
Status : Succeeded
Location : South India
Subscription (move) : Free Trial
Subscription ID : c907a972-dcb9-4251-a941-9a8f811f336f

Type : Data factory (V2)
Getting started : Quick start

Azure Data Factory Studio

Launch studio

Quick Starts

Tutorials

Template Gallery

Training Modules

Monitoring

PipelineRuns

ActivityRuns

TriggerRuns

AZURE DATA FACTORY STUDIO VIEW OPENED IN NEW TAB

Microsoft Azure | Data Factory | ksrmagadesadf

Search factory and documentation

Home

Ingest

Orchestrate

Transform data

Configure SSIS

Recent resources

Name	Type	Last opened by you
BikeDataPL	Pipeline	Yesterday at 10:52 PM
Bike_Data_DF	Data flow	Yesterday at 10:51 PM
InputBikeData	Dataset	Yesterday at 10:34 PM

Show more ▾

Discover more

Browse partners (preview)

Pipeline templates

SAP pipeline templates

CREATE AZURE SQL DATABASE: -

SELECT SQL DATABASE ICON

Home >

Create a resource ...

Get Started

Recently created

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Azure Synapse Analytics	Create Docs MS Learn	Free SQL Server License: SQL Server 2022 Developer on Windows Server 2022	Create Learn more
Azure Database for PostgreSQL	Create Docs MS Learn	Azure Cost Management plan	Create Learn more
Azure Database for MySQL	Create Docs MS Learn	SQL Server 2016 SP2 Enterprise on Windows Server 2016	Create Learn more
Azure SQL Managed Instance	Create Docs MS Learn	SQL Server 2017 Enterprise Windows Server 2016	Create Learn more
SQL server (logical server)	Create Docs	Azure SQL Edge Developer	Create Learn more
Azure Database for PostgreSQL Flexible Server	Create Docs	Usage-based plan	Set up + subscribe Learn more

- GIVE SERVER NAME, SELECT REGION & AUTHENTICATION
- CREATE LOGIN AND PASSWORD

Home > Create a resource > Create SQL Database >

Create SQL Database Server

Microsoft

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name *	<input type="text" value="ksrmagudessql"/> .database.windows.net
Location *	<input type="text" value="(US) East US"/>

Authentication

i Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

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 Microsoft Entra authentication [Learn more](#) using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Authentication method	<input type="radio"/> Use Microsoft Entra-only authentication
	<input type="radio"/> Use both SQL and Microsoft Entra authentication
	<input checked="" type="radio"/> Use SQL authentication

Server admin login *	<input type="text" value="MAGUDES-ADMIN"/>
Password *	<input type="password" value="*****"/>
Confirm password *	<input type="password" value="*****"/>

OK

- CREATE DATABASE AND CONFIGURE WITH BACKUP REDUNDENCY

Home > Create a resource >

Create SQL Database

Microsoft
Resources

Database name *	<input type="text" value="MagudeswaranM"/>
Server *	<input type="text" value="(new) ksrmagudessql (East US)"/> Create new

Want to use SQL elastic pool? [\(i\)](#)

Yes No

Workload environment

Development
 Production

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

Compute + storage * [\(i\)](#)

General Purpose - Serverless
Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled
[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy [\(i\)](#)

Locally-redundant backup storage
 Zone-redundant backup storage
 Geo-redundant backup storage

Review + create

Next : Networking >

• SELECT BASIC VERSION [UPTO 2GB STORAGE CAPACITY] AND CREATE

Home > Create a resource >

Configure ...

 Feedback

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

 Lower, simplified pricing for SQL Database Hyperscale starts from 15th of December 2023. [Learn more](#)

Service tier

Basic (For less demanding workloads)

[Compare service tiers](#)

DTUs [Compare DTU options](#)

5 (Basic)

Data max size (GB)

2


Cost summary
Basic (Basic) Cost per DTU (in INR) 83.22 DTUs selected x 5 ESTIMATED COST / MONTH 416.11 INR

[Apply](#)

Home > Create a resource >

Create SQL Database

Microsoft
Resources

Database name *

MagudeswaranM



Server * ⓘ

(new) ksrmagudessql (East US)



[Create new](#)

Want to use SQL elastic pool? ⓘ

Yes No

Workload environment

Development
 Production

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

Compute + storage * ⓘ

Basic

2 GB storage

[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ

Locally-redundant backup storage
 Zone-redundant backup storage
 Geo-redundant backup storage

[Review + create](#)

[Next : Networking >](#)

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

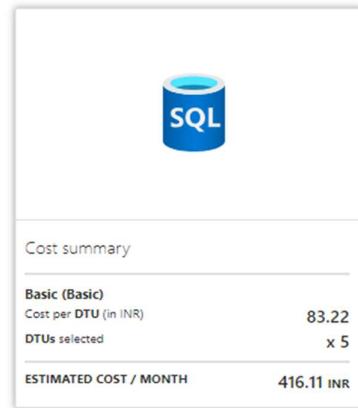
Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost per month
416.11 INR

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Basics

Subscription	Free Trial
Resource group	KSR-MAGUDESWARAN-RG
Region	East US
Database name	MagudeswaranM
Server	(new) ksrmagudessql
Authentication method	SQL authentication
Server admin login	MAGUDES-ADMIN
Compute + storage	Basic: 2 GB storage
Backup storage redundancy	Locally-redundant backup storage

Microsoft.SQLDatabase.newDatabaseNewServer_b53f770f72f443c692dd1 | Overview

Deployment

Search < Delete Cancel Redeploy Download Refresh

Overview

Deployment is in progress

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_b53f770f72f443c692dd1
 Subscription : Free Trial
 Resource group : KSR-MAGUDESWARAN-RG

Start time : 14/2/2024, 11:03:16 pm
 Correlation ID : c248f065-2e74-460f-95b1-8752a8a87d48

Deployment details

Resource	Type	Status	Operation details
ksrmagudessql	SQL server	Accepted	Operation details

Give feedback

Tell us about your experience with deployment

AZURE SQL DATABASE DEPLOYMENT SUCCESSFUL

The screenshot shows the Microsoft Azure Deployment Overview page for a successful deployment. The main message is "Your deployment is complete". Deployment details include:

- Deployment name: Microsoft.SQLDatabase.newDatabaseNewServer_31fa57bb1a324b79a7854
- Subscription: Free Trial
- Resource group: KSR-MAGUDESWARAN-RG

Deployment status: Start time: 13/2/2024, 9:22:43 pm; Correlation ID: 073f5d4b-88a9-4289-832e-10809a14d6a4.

Next steps include "Go to resource", "Give feedback", and "Tell us about your experience with deployment". A sidebar on the right provides links to Cost management, Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

The screenshot shows the Microsoft Azure SQL Database Overview page for the database "MagudesharanM". The main navigation bar includes "Search", "Copy", "Restore", "Export", "Set server firewall", "Delete", "Connect with...", and "Feedback".

The left sidebar lists various management options: Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Settings, Compute + storage, Connection strings, Properties, Locks, Data management, Replicas, Sync to other databases, Integrations, Azure Synapse Link, Stream analytics (preview), Add Azure AI Search, Power Platform, Power BI, and Power Apps.

The main content area displays "Essentials" information:

Resource group (move)	: KSR-MAGUDESWARAN-RG	Server name	: ksmagudessql.database.windows.net
Status	: Online	Elastic pool	: No elastic pool
Location	: East US	Connection strings	: Show database connection strings
Subscription (move)	: Free Trial	Pricing tier	: Basic
Subscription ID	: c907a972-dcb9-4251-a941-9a8f811f536f	Earliest restore point	: No restore point available

Tags (edit) : Add tags

Getting started, Monitoring, Properties, Features, Notifications (0), Integrations, Tutorials.

Start working with your database

Configure access, Connect to application, Start developing.

Configure, See connection strings, Open Azure Data Studio, Open in Visual Studio, Open in Visual Studio Code.

SQL QUERY TAB VIEW

The screenshot shows the Microsoft Azure SQL Database Query editor (preview) interface. The top navigation bar includes 'Microsoft Azure' and 'Upgrade' buttons, a search bar, and account information for 'magudeswaran.mrv@gmail.com'. The main area has tabs for 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', 'Query editor (preview)', 'Compute + storage', 'Connection strings', 'Properties', 'Locks', 'Replicas', 'Sync to other databases', 'Azure Synapse Link', 'Stream analytics (preview)', and 'Add Azure AI Search'. The 'Query editor (preview)' tab is selected. On the left, there's a sidebar for 'MagudeswaranM (Magudes-Admin)' showing 'Tables', 'Views', and 'Stored Procedures'. The central workspace is titled 'Query 1' with a 'Run' button and a text input field containing '1'. Below it are 'Results' and 'Messages' tabs, and a search bar.

NEXT GO TO ADF SELECT DATASETS, BLOB STORAGE AND FILE TYPE

The screenshot shows the Microsoft Azure Data Factory interface. The top navigation bar includes 'Microsoft Azure' and 'Data Factory' buttons, a search bar, and account information for 'magudeswaran.mrv@gmail.com'. The left sidebar under 'Factory Resources' lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (0), 'Data flows' (0), and 'Power Query' (0). The main area is titled 'New dataset' with a sub-instruction 'In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. Learn more'. It features a 'Select a data store' search bar and a grid of data store icons categorized by type: All, Azure, Database, File, Generic protocol, NoSQL, and Services and apps. The grid includes icons for Amazon Redshift, Amazon S3, Amazon S3 Compatible, Apache Impala, Azure Blob Storage, Azure Cosmos DB for MongoDB, Azure Cosmos DB for NoSQL, Azure Data Explorer (Kusto), Azure Data Lake Storage Gen1, and several other Azure services.

SELECT BLOB STORAGE

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar titled 'Factory Resources' with options like Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The 'Datasets' option is selected. On the right, a modal window titled 'New dataset' is open, asking to 'reference a dataset to specify the location and structure of your data within a data store'. It has a search bar and tabs for All, Azure, Database, File, Generic protocol, NoSQL, and Services and apps. Under the 'File' tab, 'Azure Blob Storage' is selected. Other options include Apache Impala, Azure Cosmos DB for MongoDB, Azure Cosmos DB for NoSQL, Azure Data Explorer (Kusto), and Azure Data Lake Storage Gen1. At the bottom of the modal are 'Continue' and 'Cancel' buttons.

SELECT FILE TYPE

This screenshot is similar to the previous one but shows a different step. The 'File' tab is still selected in the 'Select a data store' section. On the right, a 'Select format' modal is open, titled 'Choose the format type of your data'. It shows various options: Avro, Binary, DelimitedText, Excel, JSON, ORC, Parquet, and XML. Each option has a small icon and a brief description. The 'JSON' option is highlighted with a blue border.

CREATE LINKED SERVICE BETWEEN BLOB TO ADF

The screenshot shows the Microsoft Azure Data Factory interface again. The 'Datasets' option in the sidebar is selected. On the right, a 'New linked service' modal is open for 'Azure Blob Storage'. It asks for a 'Name' (set to 'AzureBlobStorage1') and a 'Description'. Under 'Connect via integration runtime', 'AutoResolveIntegrationRuntime' is selected. The 'Authentication type' is set to 'Account key'. In the 'Connection string' tab, 'From Azure subscription' is selected, and 'Select all' is chosen under 'Azure subscription'. The 'Storage account name' field is empty. At the bottom, there are buttons for 'Additional connection properties' (with a '+ New' link) and 'Test connection'.

New linked service

Azure Blob Storage [Learn more](#)

Name *

BOLBTOADF_CONNECTION

Description

Connect via integration runtime * ⓘ

AutoResolveIntegrationRuntime

Authentication type

Account key

Connection string

Azure Key Vault

Account selection method ⓘ

From Azure subscription Enter manually

Azure subscription ⓘ

Free Trial (c907a972-dcb9-4251-a941-9a8f811f336f)

Storage account name *

ksrmagudesblob



Additional connection properties

+ New

Test connection ⓘ

AFTER CREATING THE LINK CHECK THE TEST CONNECTION IS SUCCESSFUL

New linked service

Azure Blob Storage [Learn more](#)

Description

Connect via integration runtime * ⓘ

AutoResolveIntegrationRuntime

Authentication type

Account key

Connection string

Azure Key Vault

Account selection method ⓘ

From Azure subscription Enter manually

Azure subscription ⓘ

Free Trial (c907a972-dcb9-4251-a941-9a8f811f336f)

Storage account name *

ksrmagudesblob



Additional connection properties

+ New

Test connection ⓘ

To linked service To file path

Annotations

+ New

> Parameters

> Advanced ⓘ

Connection successful

Test connection

Create

Cancel

SELECT THE FILE PATH AND DATASET WHICH IS UPLOADED IN BLOB STORAGE

Set properties

Name: InputBikeData

Linked service: BOLBTOADF_CONNECTION

File path: ksrdatasets / Directory / Bike_Data.csv

First row as header:

Import schema:

- From connection/store
- From sample file
- None

OK Back Cancel

THEN PUBLISH THE DATASET

Microsoft Azure | Data Factory > ksmagudesadf

Publishing 1

Factory Resources

- Pipelines 0
- Change Data Capture (preview) 0
- Datasets 1
 - InputBikeData
- Data flows 0
- Power Query 0

InputBikeData

DelimitedText
CSV

Connection Schema Parameters

Linked service: BOLBTOADF_CONNECTION

File path: ksrdatasets / Directory / Bike_Data.csv

Compression type: Select...

Column delimiter: Comma (,)

Row delimiter: Default (\r\n or \n\r)

Encoding: Default(UTF-8)

Quote character: Double quote ("")

Escape character: Backslash (\)

First row as header:

Null value:

Publish all

You are about to publish all pending changes to the live environment. Learn more

Pending changes (1)

NAME	CHANGE	EXISTING
InputBikeData	(New)	-

Publish Cancel

CREATE DATAFLOW

The screenshot shows the Microsoft Azure Data Factory Data Flow blade. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (1), 'Data flows' (1), and 'Power Query' (0). The 'Bike_Data_DF' dataset is selected. In the main workspace, a single data flow component named 'source1' is visible, which is connected to a dashed 'Add Source' placeholder. The 'Properties' pane on the right shows the 'General' tab with 'Name' set to 'Bike_Data_DF'. The 'Source settings' tab is active, displaying the following configuration:

- Output stream name:** source1
- Description:** Import data from InputBikeData
- Source type:** Dataset (selected)
- Dataset:** InputBikeData
- Options:**
 - Allow schema drift
 - Infer drifted column types
 - Validate schema

This screenshot is identical to the one above, but it includes a message in the top right corner indicating that 'Data flow debug' is enabled: 'Data flow debug Cluster is ready. Session ID: 944e8333-4f11-40a3-8208-881049d5edc'. The rest of the interface and configurations are the same as the first screenshot.

CHECK THE DATASET IN DATA PREVIEW TAB

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (1: InputBikeData), 'Data flows' (1: Bike_Data_DF), and 'Power Query' (0). The main workspace displays a pipeline named 'InputBikeData' with a single activity: 'Bike_Data_DF'. The 'Properties' pane on the right shows the dataset's name as 'Bike_Data_DF' and its description as 'Bike Data DF'. The 'Data preview' tab is selected, showing a preview of 100 rows from the dataset. The columns listed are Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, ListPrice, UnitPrice, and Order. The data preview table contains 20 rows of bike sales information.

Region	Country	Customer	Business Segment	Category	Model	Color	SalesDate	ListPrice	UnitPrice	Order
North	United	Advan...	Compu...	Road F...	Ll Ro...	Red	04-01-...	337.22	183.94	1
North	United	Central...	Bikes	Mount...	Mount...	Silver	04-01-...	3399.99	2039.99	1
North	United	Leadin...	Clothing	Jersey	Long-S...	Multi	04-01-...	49.99	28.84	6
North	United	Paint S...	Compu...	Mount...	HL Mo...	Black	04-01-...	1349.6	714.7	2
North	United	Scoote...	Bikes	Road B...	Road...	Red	04-01-...	1457.99	874.79	2
North	United	Scoote...	Bikes	Road B...	Road...	Black	04-01-...	782.99	419.46	2
North	United	Scoote...	Bikes	Road B...	Road...	Red	04-01-...	782.99	419.46	4
North	United	Moder...	Bikes	Road B...	Road...	Red	04-01-...	1457.99	874.79	1
North	United	Moder...	Bikes	Road B...	Road...	Black	04-01-...	782.99	419.46	2
North	Canada	Corner...	Access...	Helmets	Sport...	Black	04-01-...	34.99	20.19	5
North	Canada	Metal ...	Bikes	Road B...	Road...	Red	04-01-...	782.99	419.46	1

CALCULATION PROCESS FOR COST AND SALES WITH DERIVED COLUMN

The screenshot shows the Microsoft Azure Data Factory pipeline editor. The 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (1: InputBikeData), 'Data flows' (1: Bike_Data_DF), and 'Power Query' (0). The main workspace displays a pipeline named 'InputBikeData' with a single activity: 'Bike_Data_DF'. The 'Properties' pane on the right shows the dataset's name as 'Bike_Data_DF' and its description as 'Bike Data DF'. The 'Derived column settings' tab is selected. The 'Output stream name' is set to 'CalculateCost'. The 'Description' field contains the text 'Creating/updating the columns: Region, Country, Customer, Business Segment, Category, Model, Color,'. The 'Incoming stream' is set to 'sourcedataflow'. Under 'Columns', there are two columns: 'Cost' and 'Sales', each with an 'Enter expression...' input field. The 'Expression' fields are currently empty.

CALCULATED COLUMN ADDED

The screenshot shows the Microsoft Azure Data Factory Data Flow interface. A pipeline named 'InputBikeData' is being edited. The flow consists of an 'InputBikeData' dataset, a 'CalculateCost' component, and a sink dataset named 'Bike_Data_DF'. The 'CalculateCost' component has two columns: 'Cost' and 'Sales'. The expression for 'Cost' is 'UnitPrice*OrderQty' and for 'Sales' is 'ListPrice*OrderQty'. The properties pane on the right shows the dataset is named 'Bike_Data_DF'.

SELECT SINK AND GIVE NAME TO THE NEW DATASET

The screenshot shows the Microsoft Azure Data Factory Data Flow interface. The pipeline 'InputBikeData' is being edited. The flow now includes a 'sink1' component after the 'CalculateProfit' component. The properties pane on the right shows the dataset is named 'Bike_Data_DF'.

AGAIN CREATE LINK BETWEEN ADF TO AZURE SQL DATABASE

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (1), 'Data flows' (1), and 'Power Query' (0). The main workspace displays a data flow named 'Bike_Data_DF'. The flow consists of three main stages: 'InputBikeData' (sourcing data from 'InputBikeData'), 'CalculateCost' (modifying columns like Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, and Color_SalesDate), and 'FinalBikeData' (the output stream). Below the flow, the 'Sink' tab is selected, showing settings for 'FinalBikeData' as the output stream name, 'Add sink dataset' as the description, and 'CalculateProfit' as the incoming stream. The 'Sink type' dropdown shows options for 'Dataset', 'Inline', and 'Cache', with 'Dataset' selected. The 'Dataset' dropdown shows 'Select...' and '+ New'. Under 'Options', the 'Allow schema drift' checkbox is checked, while 'Validate schema' is unchecked. To the right of the data flow, a 'New linked service' panel is open for 'Azure SQL Database'. It includes fields for 'Connect via integration runtime' (set to 'AutoReserveIntegrationRuntime'), 'Account selection method' (radio button for 'From Azure subscription' selected), 'Azure subscription' (Free Trial selected), 'Server name' ('krmagudessql'), 'Database name' ('MagadeswaranM'), 'Authentication type' ('SQL authentication'), 'User name' ('Magades-Admin'), 'Password' (redacted), 'Always encrypted' (unchecked), and 'Additional connection properties' ('+ New'). At the bottom right of the panel, a green checkmark indicates 'Connection successful' and a link to 'Test connection'.

NOW YOU CAN FIND 2 DATASETS AND 01 DATAFLOW

This screenshot shows the same Microsoft Azure Data Factory interface as the previous one, but with a 'Publishing' tab selected at the top. The workspace displays the 'Bike_Data_DF' data flow with its three stages: 'InputBikeData', 'CalculateCost', and 'FinalBikeData'. The 'Sink' tab is selected, showing 'FinalBikeData' as the output stream name and 'Export data to OutputBikeData' as the description. The 'Dataset' dropdown shows 'OutputBikeData' selected. The 'Options' section includes 'Allow schema drift' (checked) and 'Validate schema' (unchecked). To the right, a 'Publish all' panel is open, showing a table of 'Pending changes (2)'. The table has columns for 'NAME', 'CHANGE', and 'EXISTING'. It lists two entries: 'Datasets' with 'OutputBikeData' as the change and '-' as the existing state, and 'Data Flows' with 'Bike_Data_DF' as the change and '-' as the existing state. At the bottom right of the publishing panel, there are 'Publish' and 'Cancel' buttons.

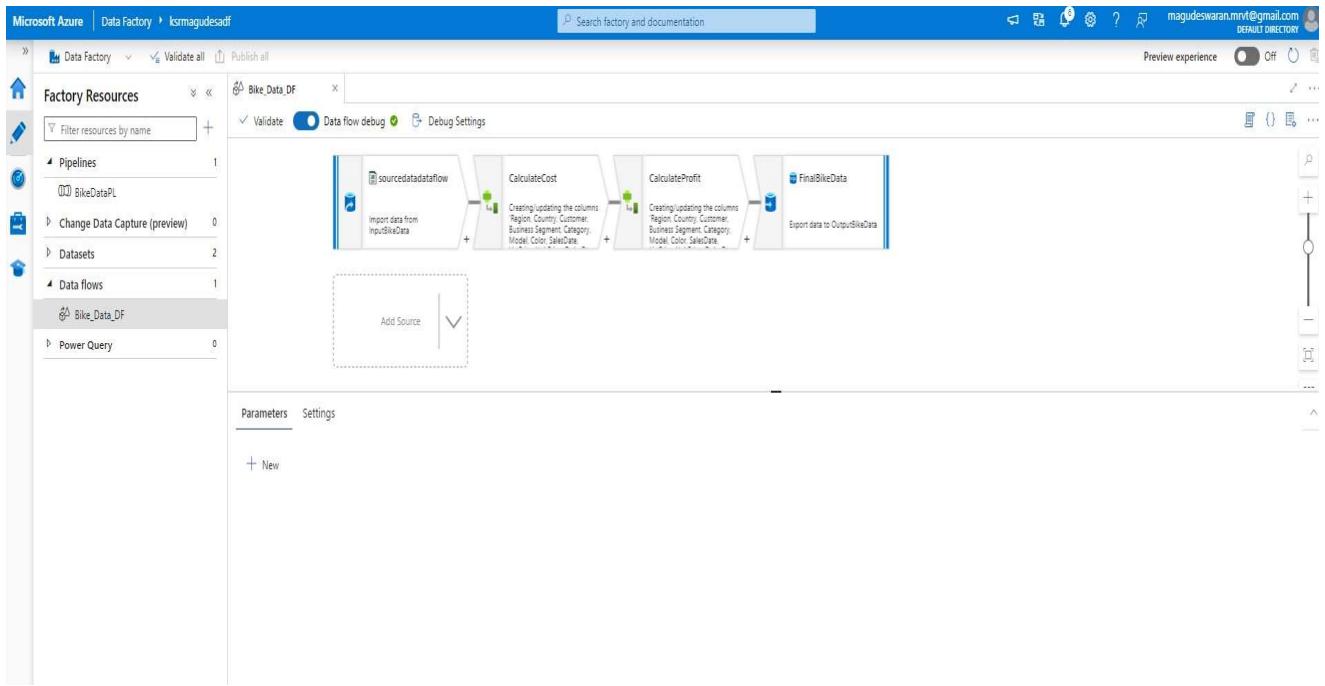
CREATE PIPE LINE

C

The screenshot shows the Microsoft Azure Data Factory Pipeline Editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (BikeDataPL), 'Datasets' (Bike_Data_DF), and 'Data flows' (Bike_Data_DF). The main workspace is titled 'BikeDataPL'. The 'Activities' pane on the left contains sections for 'Move and transform' (Copy data, Data flow), 'Synapse' (Notebook), and 'Azure Function'. The 'Properties' pane on the right shows the pipeline's name as 'BikeDataPL' and its description as 'BikeDataPL'. The 'Annotations' section is empty.

BRING THE DATAFLOW AND PUBLISH AGAIN CHECK THE CONNECTION IS SUCCESSFUL

The screenshot shows the Microsoft Azure Data Factory Pipeline Editor after adding a Data Flow activity. The 'Activities' pane now includes a 'Data flow' option under 'Move and transform'. The 'Properties' pane shows the pipeline's name as 'BikeDataPL' and its description as 'BikeDataPL'. The 'Annotations' section is empty. The 'Settings' tab in the properties pane is selected, showing settings like 'Data flow' (Bike_Data_DF), 'Run on (Azure IR)' (AutoResolveIntegrationRuntime), 'Compute size' (Small), and 'Logging level' (Verbose).



ADDING TRIGGER

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines, Datasets, Data flows, and Power Query. The main workspace displays a Pipeline named 'BikeDataPL'. A tooltip 'Trigger on-demand run of the last published pipeline' is shown over the 'Add trigger' button. The pipeline details pane shows the 'Settings' tab selected, with the 'Data flow' dropdown set to 'Bike_Data_DF'. Other settings include 'Run on (Azure IR)' set to 'AutoResolveIntegrationRuntime' and 'Compute size' set to 'Small'.

TRIGGER PROCESSING STAGE

All pipeline runs > BikeDataPL - Activity runs

Activity runs

Pipeline run ID: da39a172-1596-4551-bc7e-4008cd503b01

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User properties	Activity run ID	Log
Data flow1	In progress	Data flow	2/13/2024, 10:45:28 PM	2m 37s			7e1e5411-23a8-4ccc-8aee-7fd68a089817	

GO TO AZURE SQL DATABASE AND REFRESH CAN FIND THE TABLE

Search

Home > MagudeswaranM (ksrmagudessql/MagudeswaranM)

MagudeswaranM (MagudeswaranM) | Query editor (preview)

Query 1

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables

dbo.Bike-Data-Cleaned_T8

Views

Stored Procedures

Results

SELECT THE TABLE AND CHECK THE COLUMNS CREATED

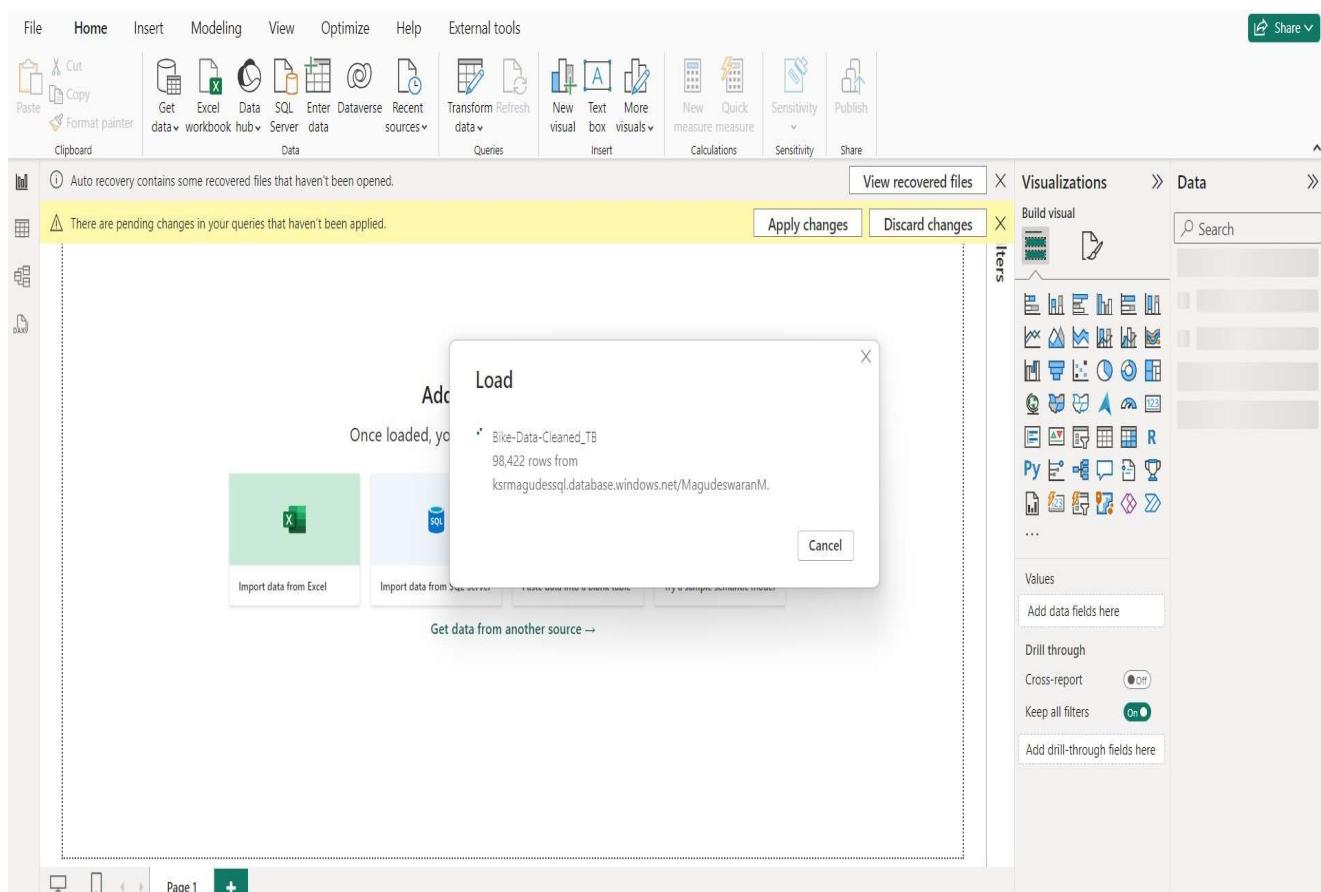
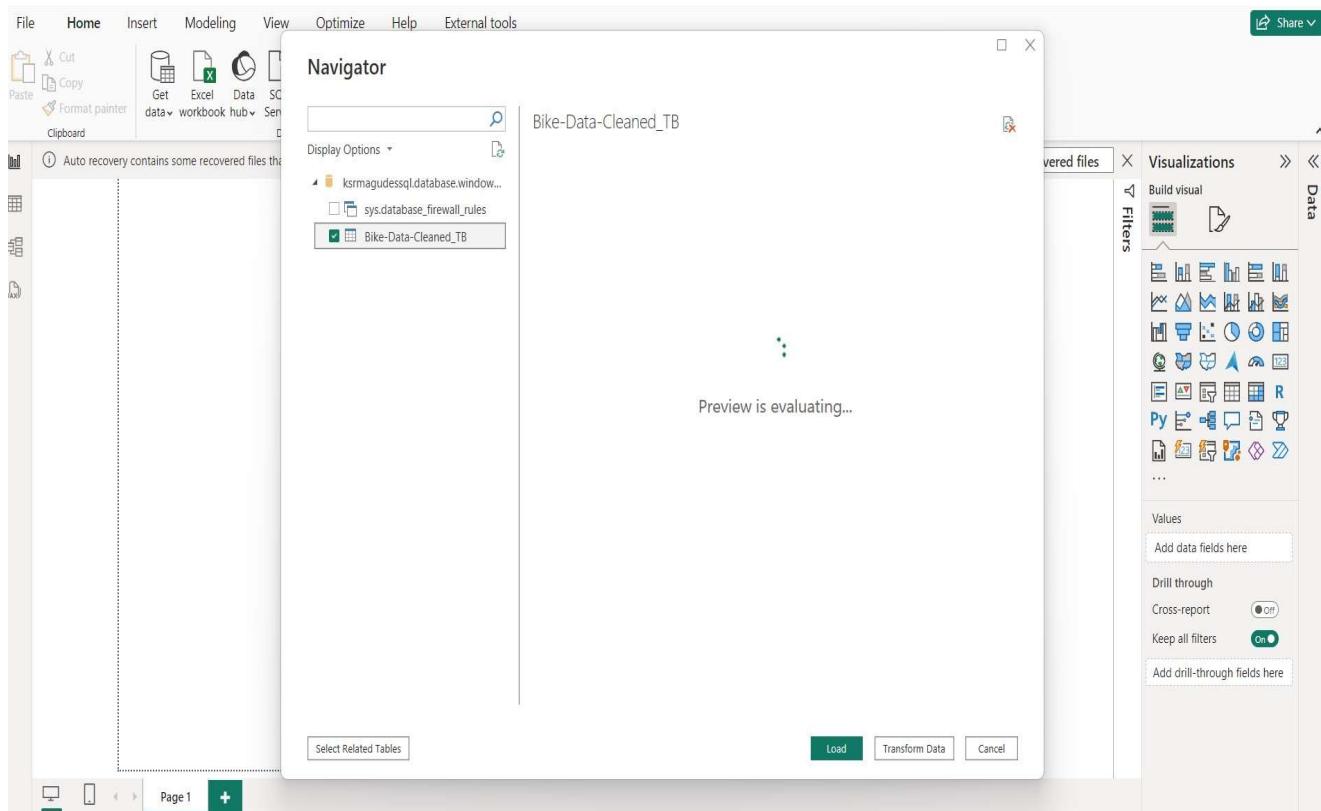
The screenshot shows the Microsoft Azure portal interface for a SQL database named 'MagadeswaranM'. On the left, there's a navigation sidebar with various options like Overview, Activity log, Tags, Diagnose and solve problems, and Query editor (preview). The main area has two tabs: 'Query 1' and 'Query 2'. 'Query 1' contains the SQL command: 'SELECT TOP (1000) * FROM [dbo].[Bike-Data-Cleaned_TB]'. Below the queries, there's a tree view under 'Tables' showing 'dbo.Bike-Data-Cleaned_TB'. The 'Results' tab is selected, displaying a table with columns: iDate, ListPrice, UnitPrice, OrderQty, Cost, Sales, and Profit. The data shows several rows of bike sales data from 2019.

iDate	ListPrice	UnitPrice	OrderQty	Cost	Sales	Profit
2-2019	91.49	54.89	6	329.34	548.94	219.6
2-2019	2384.07	1430.44	4	5721.76	9356.28	3814.52
2-2019	594.83	356.9	4	1427.6	2379.32	951.72
2-2019	63.5	38.1	8	304.8	508	203.2
2-2019	8.99	5.39	6	32.34	53.94	21.6
2-2019	8.99	5.39	2	10.78	17.98	7.2

- NOW GO TO PBI DESKTOP AND GET DATA FROM AZURE SQL DATABASE
- LOGIN WITH CREATED SQL CREDENTIALS

The screenshot shows Microsoft Power BI Desktop. The ribbon menu is visible at the top. In the center, a 'SQL Server database' connection dialog is open. It prompts for a 'User name' (Magades-Admin) and a 'Password'. A dropdown 'Select which level to apply these settings to' is set to 'ksrmagudessql.database.windows.net'. At the bottom right of the dialog are 'Back', 'Connect', and 'Cancel' buttons. To the right of the dialog, the Power BI visualizations pane is open, showing various chart and report icons. The bottom of the screen shows the Power BI ribbon with 'Page 1' selected.

SELECT THE TABLE AND LOAD THE DATA



DATASET IS IMPORTED FROM AZURE SQL SERVER TO POWER BI DESKTOP

The screenshot shows the Power BI Desktop interface with the 'Table tools' ribbon selected. A table named 'Bike-Data-Cleaned...' is open, displaying a grid of data. The columns represent various attributes of the bike sales, such as geographical location, customer type, business segment, product category, model, color, and financial metrics like sales and profit.

SAMPLE VISUALS CREATED WITH THAT BIKE DATA SET

