

## EXPERIMENT 20

Create a SQL storage service and perform a basic query using any Public Cloud Service Provider (Azure/GCP/AWS) to demonstrate Database as a Service (DaaS)

**Azure services**

- Create a resource
- SQL databases
- Storage accounts
- Marketplace
- Databases for SAP solutions
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- Virtual machines
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**Resources**

Recent Favorite

Name	Type	Last Viewed
prudvi	Storage account	24 minutes ago
KEERTHIREDDY	Resource group	27 minutes ago
swetha (sreeja/swetha)	SQL database	3 hours ago
keerthi345	Storage account	3 hours ago
bharathi87_group	Resource group	4 hours ago
keerthi	Resource group	23 hours ago
sreenureddy685_z1	Network interface	23 hours ago
tulasireddy	Static Web App	23 hours ago
tulasireddy_group	Resource group	23 hours ago

**Storage accounts**

Default Directory (keerthireddy4165saseetha.onmicrosoft.com)

+ Create Restore Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 1 to 3 of 3 records. No grouping List view

Name	Type	Kind	Resource group	Location	Subscription
csg1003200306cdd9e6	Storage account	StorageV2	cloud-shell-storage-centralin...	Central India	Azure for Students
keerthi345	Storage account	StorageV2	bharathi87_group	South India	Azure for Students
prudvi	Storage account	StorageV2	KEERTHIREDDY	South India	Azure for Students

< Previous Page 1 of 1 Next >

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# EXPERIMENT 20

The image shows two screenshots of the Microsoft Azure portal. The top screenshot displays the 'SQL databases' resource list, which is currently empty. The bottom screenshot shows the 'Create SQL Database' wizard, where the user is configuring a new database named 'VARSHA' under the 'Azure for Students' subscription and 'KEERTHIREDDY' resource group. A cost summary sidebar on the right provides pricing details for the selected configuration.

**SQL databases**

Home > SQL databases

+ Create Reservations Management view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

No grouping List view

Name Server Replica type Pricing tier Location Subscription

< Previous Page Next >

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Microsoft Azure

Home > SQL databases >

**Create SQL Database**

Microsoft

Want to try Azure SQL Database for free? Create a free serverless database with the first 100,000 vCore seconds, 32GB of data, and 32GB of backup storage free per month for the lifetime of the subscription. [Learn more](#)

Apply offer (Preview)

**Project details**

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

Subscription \* Azure for Students

Resource group \* KEERTHIREDDY

Create new

**Database details**

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

Database name \* VARSHA

Review + create Next: Networking >

**Cost summary**

General Purpose (GP_S_Gen5_1)	
Cost per GB (in INR)	10.30
Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH	428.31 INR
COMPUTE COST / VCORE SECOND <sup>1</sup>	0.012520 INR

**NOTES**

<sup>1</sup> Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

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Microsoft Azure

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# EXPERIMENT 20

The image shows two screenshots of the Microsoft Azure portal. The top screenshot is the 'Create SQL Database' page, and the bottom screenshot is the 'Deployment is in progress' overview page.

**Top Screenshot: Create SQL Database**

Home > SQL databases > Create SQL Database

Transparent data encryption (Server level) Service-managed key selected

Database level customer-managed key Not configured

Database level user assigned managed identity Not configured

Advanced data security Not now

Always encrypted with secure enclaves Not configured

Sql Ledger(Database) Disabled

Digest Storage Disabled

**Additional settings**

Use existing data Blank

Collation SQL\_Latin1\_General\_CP1\_CI\_AS

Maintenance window System default (Spm to 8am)

**Tags**

Create < Previous Download a template for automation

**Bottom Screenshot: Microsoft.SQLDatabase.newDatabaseExistingServer\_acfdbbf9265d4524 | Overview**

Deployment

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Delete Cancel Redeploy Download Refresh

**Deployment is in progress**

Deployment name : Microsoft.SQLDatabase.newDatabaseE... Start time : 10/19/2023, 12:43:21 PM

Subscription : Azure for Students Correlation ID : 919d6775-3a0b-4e84-9f57-e1b129b1a...

Resource group : KEERTHIREDDY

**Deployment details**

Resource	Type	Status	Operation details
sreeja/VARSHA	SQL database	Accepted	<a href="#">Operation details</a>
sreeja	SQL server	OK	<a href="#">Operation details</a>

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# EXPERIMENT 20

The first screenshot shows the 'Overview' page for a deployment of 'Microsoft.SQLDatabase.newDatabaseExistingServer\_acfdbbf9265d4524'. The deployment is complete, with a status of 'Your deployment is complete'. The deployment name is 'Microsoft.SQLDatabase.newDatabaseExistingServer...', the subscription is 'Azure for Students', and the resource group is 'KEERTHIREDDY'. The deployment details show a start time of 10/19/2023, 12:43:21 PM and a correlation ID of 919d6775-3a0b-4e84-9f57-e1b129b1a... The next steps section has a 'Go to resource' button. A 'Deployment succeeded' notification is visible in the top right corner.

The second screenshot shows the 'Overview' page for the 'VARSHA (sreeja/VARSHA)' SQL database. The database was just created, and a 'getting started?' link is provided. The essentials section shows the resource group as 'KEERTHIREDDY', the status as 'Online', the location as 'Central India', the subscription as 'Azure for Students', and the subscription ID as 'e7dc773a-8e2d-42f6-9d4c-f23c9d3530ea'. The server name is 'sreeja.database.windows.net', the connection strings are 'Show database connection strings', the pricing tier is 'General Purpose - Serverless: Standard-series (Gen5) 1 y...', the auto-pause delay is '1 hour', and the earliest restore point is 'No restore point available'. The compute utilization section shows a graph for the last 1 hour, 24 hours, or 7 days, with an aggregation type of 'Max'. The database data storage section shows a gauge for '0.01% USED SPACE'.