

Custom Learnings

Day 3

Azure SQL

Create Azure SQL in particular region: US East

Create Azure SQL -> SQL Databases, SQL managed instances, SQL virtual machines

SQL Databases: when starting from scratch

SQL managed instances manages more services from azure security,

SQL virtual machines: SQL in virtual machine

SQL Databases







- **Resource Type:**
 - **Single Database-** separate database for separate things.
 - **Elastic Pool** – single resource pool can be used for more services. instead of single combine both . create when one db has less and two db can be used to create pool
 - **Database server-** Database is created inside server
- **User & Group Access**
 - **User:** Individual access
 - **Group:** E.g., New group called IDAShell which has 100 members and give access to the entire group. Maybe only 50/200 tables were required by the IDA team so only that access is provided. If new user comes the person is added to that grp.

1. Create SQL Database using Single Db resource:

Basics

Microsoft Azure

Search resources, services, and docs (G+)



Shellunext_1693422208...
UNEXT (NPUNEXT.ONMICROSOFT...)

Home > Azure SQL > Select SQL deployment option >

Create SQL Database

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + 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 * ⓘ

npunext-1680261698581

Resource group * ⓘ

(New) RG_Shellida_06

[Create new](#)

Database details

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

Review + create

Next : Networking >

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in --)

--

Max storage selected (in GB)

x 41.6

ESTIMATED STORAGE COST / MONTH

-- ..

COMPUTE COST / VCORE SECOND ¹







-- ..

NOTES

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

Microsoft Azure

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Shellunext_1693422208...
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Home > Azure SQL > Select SQL deployment option >

Create SQL Database

Microsoft

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Product details

SQL database by Microsoft

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Estimated cost

Storage cost -- / month + Compute cost -- / vCore second

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Basics

Subscription

npunext-1680261698581

Resource group

RG_Shellida_06

Region

East US

Database name

idashelldb

Cost summary

General Purpose (GP_S_Gen5_1)

Cost per GB (in --)

--

Max storage selected (in GB)

x 41.6

ESTIMATED STORAGE COST / MONTH

-- ..

COMPUTE COST / VCORE SECOND ¹

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Create

< Previous

[Download a template for automation](#)

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_208f3d5299d24fb796b34 | Overview

Deployment

Search << Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.SQLDatabase.ne... Start time : 8/31/2023, 11:07:06 AM
 Subscription : npunext-1680261698581 Correlation ID : 38c50fd1-e53f-445e-ac22-...
 Resource group : RG_Shellida_06

> Deployment details

▼ Next steps

[Go to resource](#)

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Home > Microsoft.SQLDatabase.newDatabaseNewServer_208f3d5299d24fb796b34 | Overview >

idashelldb (idashelldb) SQL database

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

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Essentials

Resource group (move) : [RG_Shellida_06](#)

Status : Online

Location : East US

Subscription (move) : [npunext-1680261698581](#)

Subscription ID : 7179a1e4-9824-4360-9eda-2930d7e2dc08

Tags (edit) : [Sql: sql_db](#)

Server name : [idashelldb.database.windows.net](#)

Connection strings : [Show database connection strings](#)

Pricing tier : [General Purpose - Serverless: Gen5, 1 vCore](#)

Auto-pause delay : [1 hour](#)

Earliest restore point : No restore point available

[Getting started](#) Monitoring Properties Features Notifications (0) Integrations Tutorials

JSON View

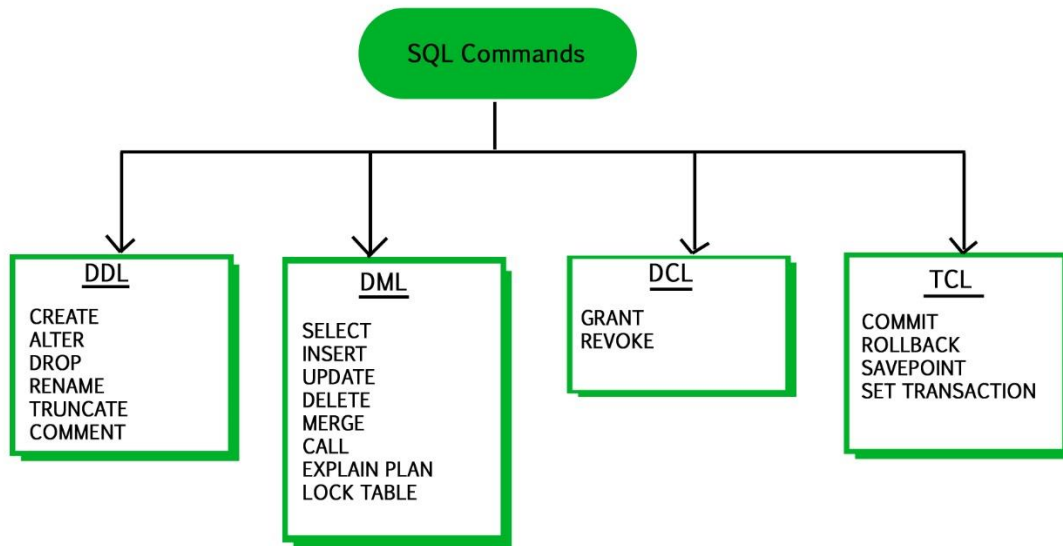
TABLES

View : Limited access of table

```
CREATE VIEW view_name AS
SELECT column1, column2, ...
FROM table_name
WHERE condition;
```

➔ **DDL : Data definition**

- ➔ **DML:** Data Manipulation
- ➔ **DCL:** Data Control
- ➔ **TCL:** Transaction Control



Schema: Logical grouping of table objects

Default Schema: dbo

If we write select without creating schema, if dbo is there it will search for dbo and if not there it will throw error .

If there is any project schema , first find out that

E.g.,

Create schema ven1

Create table ven1.vendor

SYNTAX:

CREATE SCHEMA schemaname

[AUTHORIZATION ownername]

GO

E.g.,

```
CREATE SCHEMA geeks_sch;
```

```
GO
```

```
SELECT *
```

```
FROM sys.schemas
```

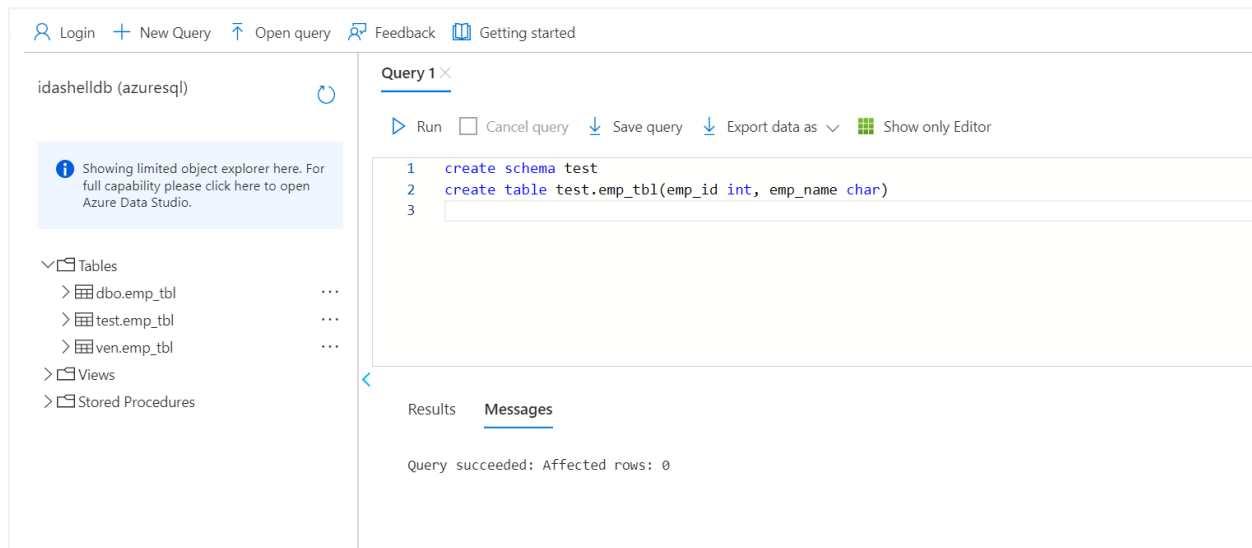
Difference between Drop table, delete table and truncate table

- **Drop Table:** Entire record and structure will be delete
- **Delete Table:** Selects rows/records will be deleted
- **Truncate Table:** All the records will be deleted but structure will be there.

*Only difference between delete and truncate is that where clause can be put in delete that is selected records can be deleted.

HANDS-ON

Creating schema and then create table in it



Real world

Server -> Databases -> Tables -> Schemas